

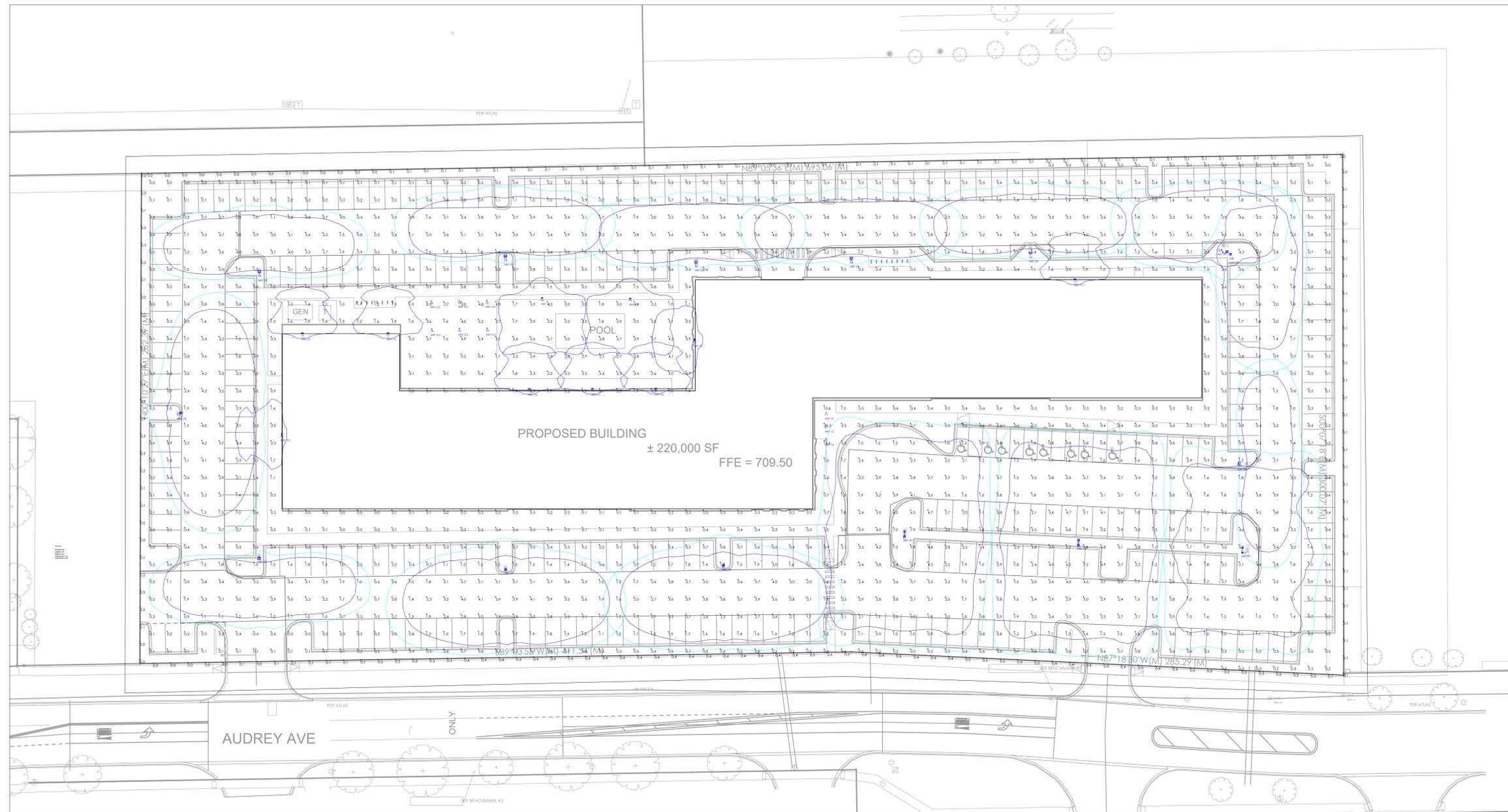
NOTES
PG-ENLIGHTEN IS NEITHER LICENSED NOR INSURED TO DETERMINE CODE COMPLIANCE. CODE COMPLIANCE REVIEW BY OTHERS.
FIXTURE TYPES AND QUANTITIES BASED ON PROVIDED LAYOUT AND DRAWINGS ARE FOR REFERENCE ONLY. TYPES AND QUANTITIES MAY CHANGE WITH FUTURE REVISIONS.
FIXTURE TYPES AND QUANTITIES MAY CHANGE BASED ON UNKNOWN OBSTRUCTIONS OR FIELD CONDITIONS. THESE CHANGES MAY RESULT IN AN INCREASED QUANTITY OF FIXTURES.
RENDER IMAGES ARE NOT TO SCALE AND PROVIDED SOLELY TO ILLUSTRATE CONTRAST

THE EXTERIOR LIGHTING DEPICTED ON THIS PLAN COMPLIES WITH THE REQUIREMENTS OF 6-14-4.3 (PERFORMANCE STANDARDS, EXTERIOR LIGHTING), PER SECTION 6-14-4.3.7. ONCE THE PLAN IS APPROVED, THE EXTERIOR LIGHTING OF THE PROPERTY SHALL CONFORM TO THE APPROVED PLAN.

PROPERTY OWNER \_\_\_\_\_  
 PLAN PREPARER \_\_\_\_\_

Symbol	Qty	Tag	Manufacturer	Label	Arrangement	Total Lamp Lumens	LLF	Description
[Symbol]	2	F1	BEACON	RAR2-320L-165-3K-4F	Back-Back	N.A.	0.800	RAR2-320L-165-3K-4F
[Symbol]	1	F1A	BEACON PRODUCTS	RAR2-320L-110-3K-4F_1	Back-Back	N.A.	0.800	RAR1-160L-100-3K-4F
[Symbol]	1	F2A	BEACON	RAR2-72L-115-3K7-3-HSS-90R	Single	N.A.	0.800	RAR2-72L-115-3K7-3-HSS-90R
[Symbol]	1	F2B	BEACON	RAR2-72L-115-3K7-3-HSS-90L	Single	N.A.	0.800	RAR2-72L-115-3K7-3-HSS-90L
[Symbol]	3	F3	BEACON	RAR2-320L-165-3K7-3_1	Single	N.A.	0.800	RAR2-320L-165-3K7-3
[Symbol]	6	F4	BEACON	RAR2-320L-165-3K7-3-BC	Single	N.A.	0.800	RAR-2-320L-165-3K7-3-BC
[Symbol]	1	F4A	BEACON	RAR-2-320L-110-3K7-3-BC	Single	N.A.	0.800	RAR-2-320L-110-3K7-3-BC
[Symbol]	8	F5	KIM LIGHTING	CY2-35-3K7-3-4-PB-R	Single	N.A.	0.800	CY2-35-3K7-3-4-PB-R
[Symbol]	2	F6	BEACON PRODUCTS	RAR1-80L-50-3K-4F	Single	N.A.	0.800	RAR1-80L-50-3K-4F
[Symbol]	3	F7	LEDRA BRANDS	NU4-RD-SW-20LM-30K-80-50D-HET-WH-WH	Single	N.A.	0.800	NU4-RD-SW-20LM-30K-80-50D-HET-WH-WH
[Symbol]	6	F8	TARGETTI	MBB41_36L330FE	Single	3661	0.800	MBB41_36L330FE_100_1xLED-WW-24W_-

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line	Illuminance	Fc	0.17	0.6	0.0	N.A.	N.A.
site_Planar	Illuminance	Fc	1.57	20.3	0.0	N.A.	N.A.
Drive Lane	Illuminance	Fc	2.31	4.5	0.4	5.78	11.25



SITE - ILLUMINATION CALC: 1/32"=1'-0"



PROJECT NAME:  
**AUDREY AND 59TH, NAPERVILLE IL**

DRAWN BY:  
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 260.519.0867

REVISIONS	REV1	REV2	REV3
1	09/30/25		
2	10/10/25		
3	12/10/25		

CLIENT NAME:  
**OKW**

# RATIO Series

AREA/SITE LIGHTER

## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

## SERVICE PROGRAMS

STOCK QS10

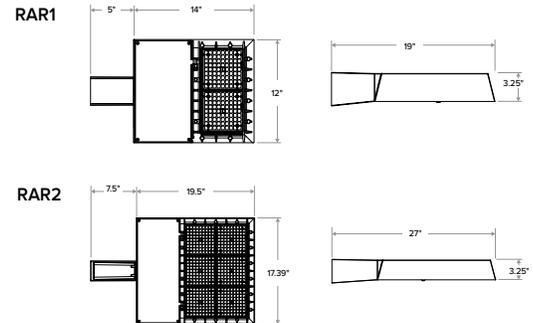
### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

## MICROSTRIKE | STRIKE OPTICS



	Weight	EPA at 0°
RAR1	13.5 lbs / 61 kg	.45ft. <sup>2</sup> / .13m <sup>2</sup>
RAR2	24 lbs / 10.9 kg	.55ft. <sup>2</sup> / .17m <sup>2</sup>

### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to [www.designlights.org](http://www.designlights.org) for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

### WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

 Gray Shading = Service Program  
 Limit of 15 luminaires


## MICRO STRIKE OPTICS - ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXW-BC

CATALOG # \_\_\_\_\_

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Micro Strike	<b>80L-25</b> 25W - 3,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>2</b> IES TYPE II	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>80L-39</b> 39W - 5,200 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>3</b> IES TYPE III	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>80L-50</b> 50W - 6,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>4W</b> IES TYPE IV	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>160L-70</b> 70W - 9,000 Lumens		<b>4F</b> IES TYPE IV Forward		<b>240</b> 240V
	<b>160L-100</b> 100W - 12,000 Lumens		<b>5QW</b> IES TYPE V		<b>277</b> 277V
	<b>160L-115</b> 115W - 15,000 Lumens				<b>347</b> 347V
	<b>160L-135</b> 135W - 18,000 Lumens				<b>480</b> 480V
<b>RAR2</b> Ratio Area Size 2 - Micro Strike	<b>320L-110</b> 110W - 15,000 Lumens				
	<b>320L-140</b> 140W - 18,000 Lumens				
	<b>320L-165</b> 165W - 21,000 Lumens				
	<b>480L-185</b> 185W - 24,000 Lumens				
	<b>480L-210</b> 210W - 27,000 Lumens				
	<b>480L-240</b> 240W - 30,000 Lumens				
	<b>480L-255</b> 255W - 36,000 Lumens				
	<b>480L-295</b> 295W - 42,000 Lumens				
<b>480L-340</b> 340W - 48,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 70 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER STRIKE

## STRIKE OPTIC - ORDERING GUIDE

**Example:** RAR1-36L-39-3K7-2-UNV-ASQ-BLT-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Strike Optics	<b>36L-39</b> 39W - 5,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>FR</b> Auto Front Row	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>36L-55</b> 55W - 7,000 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>2</b> Type 2	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>36L-85</b> 85W - 10,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>3</b> Type 3	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>36L-105</b> 105W - 12,000 Lumens	<b>3K8</b> 3000K, 80 CRI	<b>4F</b> Type 4 Forward		<b>240</b> 240V
	<b>36L-120</b> 120W - 13,000 Lumens	<b>4K8</b> 4000K, 80 CRI	<b>4W</b> Type 4 Wide		<b>277</b> 277V
	<b>72L-115</b> 115W - 14,000 Lumens	<b>5K8</b> 5000K, 80 CRI	<b>5QN</b> Type 5 Square Narrow		<b>347</b> 347V
	<b>72L-145</b> 145W - 17,000 Lumens		<b>5QW</b> Type 5 Square Wide		<b>480</b> 480V
	<b>RAR2</b> Ratio Area Size 2 - Strike Optics	<b>72L-180</b> 180W - 20,000 Lumens		<b>5QM</b> Type 5 Square Medium	
<b>72L-210</b> 210W - 24,000 Lumens			<b>5W</b> Type 5 Wide (Round)		
<b>72L-240</b> 240W - 26,000 Lumens			<b>5RW</b> Type 5 Rectangular		
<b>108L-215</b> 215W - 27,000 Lumens			<b>C</b> Corner Optic		
<b>108L-250</b> 250W - 30,000 Lumens			<b>TC</b> Tennis Court Optic		
<b>108L-280</b> 280W - 33,000 Lumens					
<b>108L-325</b> 325W - 37,000 Lumens					
<b>108L-365</b> 365W - 40,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 50 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

## CONTROLS FUNCTIONALITY



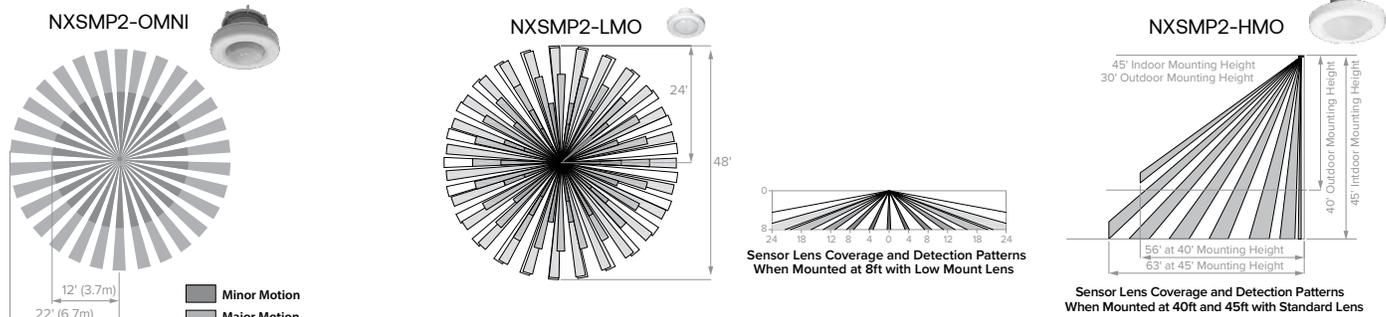
Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components	
	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height			
NX Wireless	NXOFM2-1R1D-UNV	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM2-1R1D-UNV
	NXW	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
Independent	BTSO-12F	-	-	-	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
	BTS-14F	-	-	-	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
	BTS-40F	-	-	-	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

## DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	*Passcode Factory Passcode: HubbN3T!	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

## NX WIRELESS COVERAGE PATTERNS



## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US)



Apple App



Google Play

# RATIO Series

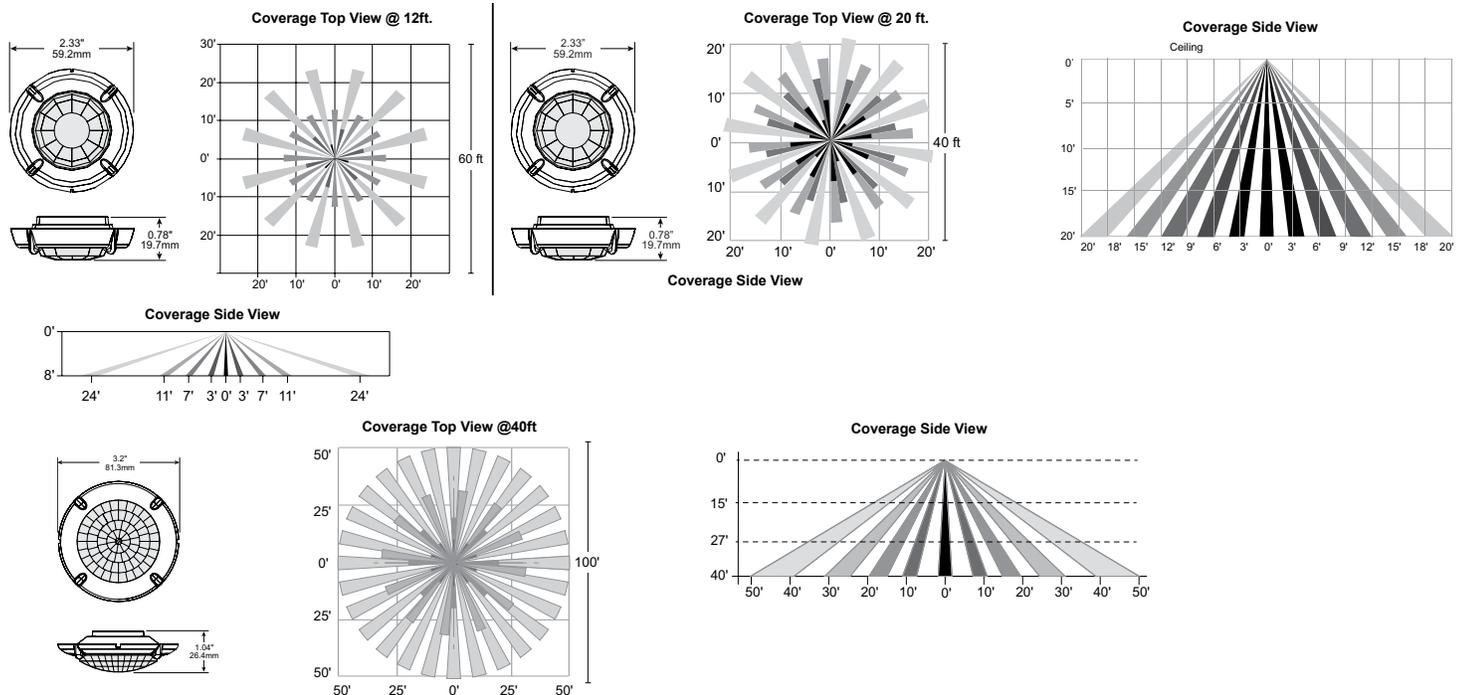
AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

### CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
SCP_F Sensor Control Programmable, sensor range, reference product specification for height selections	-	-	-	✓	✓	✓	✓	-	8ft or 20ft	SCP_F
ADD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD
ADT AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT
7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR
7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 7PR-SC
7PR-TL 7-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	 7PR-TL

### COVERAGE PATTERNS FOR SCP\_F



### PROGRAMMED CONTROLS

#### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

#### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

# RATIO Series

AREA/SITE LIGHTER

## STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

## POLE COMBOS

Catalog Number	Pole	Single or Double Head	Fixture	Lumens	Wattage	Distribution	CCT/CRI	Mounting	Finish
RAR1-100-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
SSSH-20-40-STK	20' Square Straight Steel	Pole Only	Not Included						
SSSH-25-40-STK	25' Square Straight Steel	Pole Only	Not Included						
SSSH-STK-4-KIT		Kit Only	Not Included						

# RATIO Series

AREA/SITE LIGHTER

## CONTROLS

### Control Options

**Standalone**

**SCPREMOTE** Order at least one per project location to program and control

**Networked – Wireless**

**WIR-RME-L** LightGRID+ External Fixture Module<sup>1,2</sup>

**NX Networked – Wireless**

**NXOFM-1R1D-UNV** NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- 1 Works with external networked photosensor
- 2 LightGRID+ Gateway required for system programming

## OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> ACC-O-RAR-ST1-SHLD-BC-36L	Back Light Control for RAR1 Strike 36L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-72L	Back Light Control for RAR2 Strike 72L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-108L	Back Light Control for RAR2 Strike 108L
<input type="checkbox"/> ACC-O-RAR-ST3-SHLD-BC-162L	Back Light Control for RAR3 Strike 162L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-80L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 80L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-160L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 160L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-320L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 320L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-480L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 480L
<input type="checkbox"/> ACC-O-RAR3-SHLD-BC-720L-X <sup>1</sup>	Back Light Control for RAR3 Micro Strike 720L

1 Replace X with distribution type ("2" for Type 2, "3" for Type 3, "4F" for Type 4F, Type "4W" for Type 4W)

## ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface <sup>2</sup>
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles <sup>1,2</sup>
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter <sup>1,2</sup>
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter <sup>2</sup>
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately <sup>2</sup>
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle <sup>2</sup>

1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole

2 Replace "XX" with desired color/paint finish

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

## PERFORMANCE DATA - MICRO STRIKE

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2

RAR2 Performance Data on next page

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - MICROSTRIKE (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	39	39.1	2	5385	138	1	0	1	5369	137	1	0	1	5079	130	1	0	1
			3	5331	136	1	0	2	5315	136	1	0	2	5028	129	1	0	2
			4F	5413	138	1	0	2	5396	137	1	0	2	5105	130	1	0	2
			4W	5341	137	1	0	2	5325	136	1	0	2	5037	129	1	0	2
			5QM	5508	140	2	0	1	5492	140	2	0	1	5195	132	2	0	1
			5QN	5512	140	2	0	0	5495	140	2	0	0	5198	132	2	0	0
			5QW	5118	131	3	0	2	5102	130	3	0	2	4827	123	3	0	2
			5RW	5390	138	3	0	3	5374	137	3	0	3	5084	130	3	0	3
			5W	5350	137	3	0	1	5334	136	3	0	1	5046	129	3	0	1
			C	5002	120	1	0	2	5002	120	1	0	2	5002	128	1	0	2
			FR	5547	141	1	0	1	5530	141	1	0	1	5231	133	1	0	1
			TC	5498	140	1	0	1	5481	140	1	0	1	5185	132	1	0	1
	55	56.8	2	7350	129	1	0	2	7329	129	1	0	2	6933	122	1	0	2
			3	7276	128	1	0	2	7255	128	1	0	2	6863	121	1	0	2
			4F	7388	130	1	0	2	7366	130	1	0	2	6968	123	1	0	2
			4W	7290	128	1	0	3	7269	128	1	0	3	6876	121	1	0	2
			5QM	7519	132	3	0	1	7496	132	3	0	1	7092	125	3	0	1
			5QN	7523	132	3	0	0	7501	132	3	0	0	7096	125	3	0	0
			5QW	6986	123	3	0	2	6965	123	3	0	2	6589	116	3	0	2
			5RW	7358	130	3	0	3	7336	129	3	0	3	6940	122	3	0	3
			5W	7303	129	3	0	2	7281	128	3	0	2	6888	121	3	0	2
			C	6828	113	1	0	2	6828	113	1	0	2	6828	120	1	0	2
			FR	7571	133	1	0	1	7548	133	1	0	1	7141	126	1	0	1
			TC	7504	132	1	0	1	7482	132	1	0	1	7078	125	1	0	1
	85	83.6	2	10081	121	2	0	2	10051	120	2	0	2	9508	114	2	0	2
			3	9979	119	2	0	2	9949	119	2	0	2	9412	113	1	0	2
			4F	10132	121	1	0	2	10102	121	1	0	2	9557	114	1	0	2
			4W	9998	120	1	0	3	9968	119	1	0	3	9430	113	1	0	3
			5QM	10312	123	3	0	1	10281	123	3	0	1	9726	116	3	0	1
			5QN	10318	123	3	0	0	10287	123	3	0	0	9732	116	3	0	0
			5QW	9580	115	4	0	3	9552	114	4	0	3	9036	108	4	0	3
			5RW	10090	121	4	0	4	10060	120	4	0	4	9517	114	3	0	3
			5W	10016	120	4	0	2	9986	119	4	0	2	9447	113	3	0	2
C			9364	105	2	0	2	9364	105	2	0	2	9364	112	2	0	2	
FR			10383	124	1	0	1	10352	124	1	0	1	9793	117	1	0	1	
TC			10291	123	1	0	1	10261	123	1	0	1	9707	116	1	0	1	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	105	108.2	2	12321	114	2	0	2	12284	114	2	0	2	11621	107	2	0	2
			3	12197	113	2	0	3	12160	112	2	0	3	11504	106	2	0	3
			4F	12384	114	1	0	3	12347	114	1	0	3	11680	108	1	0	2
			4W	12220	113	2	0	3	12183	113	2	0	3	11526	107	1	0	3
			5QM	12603	116	3	0	2	12565	116	3	0	2	11887	110	3	0	2
			5QN	12611	117	3	0	0	12573	116	3	0	0	11894	110	3	0	0
			5QW	11709	108	4	0	3	11674	108	4	0	3	11044	102	4	0	3
			5RW	12333	114	4	0	4	12296	114	4	0	4	11632	108	4	0	4
			5W	12241	113	4	0	2	12205	113	4	0	2	11546	107	4	0	2
			C	11445	99	2	0	2	11445	99	2	0	2	11445	106	2	0	2
			FR	12690	117	1	0	1	12653	117	1	0	1	11969	111	1	0	1
	TC	12578	116	1	0	2	12541	116	1	0	2	11864	110	1	0	2		
	120	120.9	2	13398	111	2	0	2	13358	110	2	0	2	12636	105	2	0	2
			3	13263	110	2	0	3	13223	109	2	0	3	12509	103	2	0	3
			4F	13467	111	1	0	3	13426	111	1	0	3	12701	105	1	0	3
			4W	13288	110	2	0	3	13248	110	2	0	3	12533	104	2	0	3
			5QM	13705	113	3	0	2	13664	113	3	0	2	12926	107	3	0	2
			5QN	13713	113	4	0	0	13672	113	4	0	0	12934	107	3	0	0
			5QW	12733	105	4	0	3	12695	105	4	0	3	12009	99	4	0	3
			5RW	13411	111	4	0	4	13371	111	4	0	4	12649	105	4	0	4
			5W	13312	110	4	0	2	13272	110	4	0	2	12555	104	4	0	2
			C	12446	96	2	0	2	12446	96	2	0	2	12446	103	2	0	2
FR			13800	114	1	0	1	13758	114	1	0	1	13016	108	1	0	1	
TC	13678	113	1	0	2	13637	113	1	0	2	12901	107	1	0	2			

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	115	112.1	2	14701	131	2	0	2	14657	131	2	0	2	13866	124	2	0	2
			3	14553	130	2	0	3	14509	129	2	0	3	13726	122	2	0	3
			4F	14776	132	1	0	3	14732	131	1	0	3	13937	124	1	0	3
			4W	14581	130	2	0	3	14537	130	2	0	3	13752	123	2	0	3
			5QM	15038	134	3	0	2	14993	134	3	0	2	14183	127	3	0	2
			5QN	15047	134	4	0	0	15002	134	4	0	0	14192	127	4	0	0
			5QW	13971	125	4	0	3	13929	124	4	0	3	13177	118	4	0	3
			5RW	14715	131	4	0	4	14671	131	4	0	4	13879	124	4	0	4
			5W	14606	130	4	0	2	14563	130	4	0	2	13776	123	4	0	2
			C	14571	130	2	0	3	14571	130	2	0	3	13656	122	2	0	3
			FR	15142	135	2	0	1	15097	135	2	0	1	14282	127	1	0	1
			TC	15008	134	2	0	2	14963	133	2	0	2	14155	126	1	0	2
	145	141.2	2	17797	126	3	0	3	17744	126	3	0	3	16786	119	3	0	3
			3	17618	125	2	0	3	17565	124	2	0	3	16617	118	2	0	3
			4F	17889	127	2	0	3	17835	126	2	0	3	16872	119	2	0	3
			4W	17652	125	2	0	4	17599	125	2	0	4	16649	118	2	0	4
			5QM	18205	129	4	0	2	18151	129	4	0	2	17170	122	4	0	2
			5QN	18216	129	4	0	0	18162	129	4	0	0	17181	122	4	0	0
			5QW	16914	120	4	0	3	16863	119	4	0	3	15953	113	4	0	3
			5RW	17815	126	4	0	4	17761	126	4	0	4	16802	119	4	0	4
			5W	17683	125	4	0	2	17630	125	4	0	2	16678	118	4	0	2
			C	17640	125	3	0	3	17640	125	3	0	3	16532	117	3	0	3
			FR	18331	130	2	0	2	18276	129	2	0	2	17290	122	2	0	2
			TC	18169	129	2	0	2	18115	128	2	0	2	17137	121	2	0	2
	180	177.0	2	21314	120	3	0	3	21250	120	3	0	3	20102	114	3	0	3
			3	21099	119	3	0	4	21036	119	3	0	4	19900	112	3	0	4
			4F	21423	121	2	0	4	21359	121	2	0	4	20206	114	2	0	4
			4W	21139	119	2	0	4	21076	119	2	0	4	19938	113	2	0	4
			5QM	21802	123	4	0	2	21737	123	4	0	2	20563	116	4	0	2
			5QN	21815	123	4	0	0	21750	123	4	0	0	20575	116	4	0	0
			5QW	20256	114	5	0	4	20195	114	5	0	4	19104	108	5	0	3
			5RW	21334	121	5	0	5	21271	120	5	0	5	20122	114	5	0	5
			5W	21176	120	5	0	3	21113	119	5	0	3	19973	113	5	0	3
C			21125	119	3	0	4	21125	119	3	0	4	19799	112	3	0	4	
FR			21953	124	2	0	2	21888	124	2	0	2	20706	117	2	0	2	
TC			21759	123	2	0	2	21694	123	2	0	2	20523	116	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	210	217.3	2	24102	111	3	0	3	24030	111	3	0	3	22732	105	3	0	3
			3	23859	110	3	0	4	23788	109	3	0	4	22503	104	3	0	4
			4F	24226	111	2	0	4	24153	111	2	0	4	22849	105	2	0	4
			4W	23905	110	3	0	5	23833	110	3	0	5	22546	104	2	0	4
			5QM	24654	113	4	0	2	24581	113	4	0	2	23253	107	4	0	2
			5QN	24669	114	5	0	1	24595	113	5	0	1	23267	107	5	0	0
			5QW	22905	105	5	0	4	22837	105	5	0	4	21604	99	5	0	4
			5RW	24126	111	5	0	5	24053	111	5	0	5	22754	105	5	0	5
			5W	23947	110	5	0	3	23875	110	5	0	3	22586	104	5	0	3
			C	23889	110	3	0	4	23889	110	3	0	4	22389	103	3	0	4
			FR	24825	114	2	0	2	24751	114	2	0	2	23414	108	2	0	2
			TC	24606	113	2	0	2	24532	113	2	0	2	23207	107	2	0	2
	240	238.6	2	26781	112	3	0	4	26701	112	3	0	4	25259	106	3	0	3
			3	26511	111	3	0	4	26432	111	3	0	4	25005	105	3	0	4
			4F	26918	113	2	0	4	26838	112	2	0	4	25389	106	2	0	4
			4W	26562	111	3	0	5	26483	111	3	0	5	25053	105	3	0	5
			5QM	27395	115	4	0	2	27313	114	4	0	2	25838	108	4	0	2
			5QN	27411	115	5	0	1	27329	115	5	0	1	25853	108	5	0	1
			5QW	25451	107	5	0	4	25375	106	5	0	4	24005	101	5	0	4
			5RW	26807	112	5	0	5	26727	112	5	0	5	25284	106	5	0	5
			5W	26609	112	5	0	3	26529	111	5	0	3	25097	105	5	0	3
			C	26544	111	3	0	4	26544	111	3	0	4	24878	104	3	0	4
			FR	27585	116	2	0	2	27502	115	2	0	2	26017	109	2	0	2
			TC	27341	115	2	0	2	27259	114	2	0	2	25787	108	2	0	2
	215	215.0	2	26697	124	3	0	4	26617	124	3	0	4	25180	117	3	0	3
			3	26428	123	3	0	4	26349	123	3	0	4	24926	116	3	0	4
			4F	26834	125	2	0	4	26754	124	2	0	4	25309	118	2	0	4
			4W	26479	123	3	0	5	26400	123	3	0	5	24974	116	3	0	5
			5QM	27309	127	4	0	2	27227	127	4	0	2	25757	120	4	0	2
			5QN	27325	127	5	0	1	27243	127	5	0	1	25772	120	5	0	1
			5QW	25372	118	5	0	4	25296	118	5	0	4	23930	111	5	0	4
			5RW	26723	124	5	0	5	26643	124	5	0	5	25204	117	5	0	5
			5W	26525	123	5	0	3	26446	123	5	0	3	25018	116	5	0	3
C			26461	123	3	0	4	26461	123	3	0	4	24799	115	3	0	4	
FR			27498	128	2	0	2	27416	128	2	0	2	25935	121	2	0	2	
TC			27255	127	2	0	2	27174	126	2	0	2	25706	120	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	250	247.5	2	30249	122	3	0	4	30159	122	3	0	4	28530	115	3	0	4
			3	29944	121	3	0	4	29855	121	3	0	4	28243	114	3	0	4
			4F	30404	123	2	0	5	30313	122	2	0	5	28676	116	2	0	5
			4W	30002	121	3	0	5	29912	121	3	0	5	28297	114	3	0	5
			5QM	30942	125	5	0	3	30849	125	5	0	3	29184	118	5	0	2
			5QN	30961	125	5	0	1	30868	125	5	0	1	29201	118	5	0	1
			5QW	28747	116	5	0	4	28661	116	5	0	4	27113	110	5	0	4
			5RW	30278	122	5	0	5	30188	122	5	0	5	28558	115	5	0	5
			5W	30054	121	5	0	4	29964	121	5	0	4	28346	115	5	0	3
			C	29982	121	3	0	4	29982	121	3	0	4	28099	114	3	0	4
			FR	31157	126	2	0	2	31063	126	2	0	2	29386	119	2	0	2
			TC	30881	125	3	0	3	30789	124	3	0	3	29126	118	3	0	2
	280	274.6	2	32729	119	3	0	4	32631	119	3	0	4	30869	112	3	0	4
			3	32400	118	3	0	5	32303	118	3	0	5	30558	111	3	0	5
			4F	32897	120	2	0	5	32799	119	2	0	5	31028	113	2	0	5
			4W	32462	118	3	0	5	32365	118	3	0	5	30617	112	3	0	5
			5QM	33479	122	5	0	3	33379	122	5	0	3	31577	115	5	0	3
			5QN	33499	122	5	0	1	33399	122	5	0	1	31596	115	5	0	1
			5QW	31104	113	5	0	5	31011	113	5	0	5	29337	107	5	0	4
			5RW	32761	119	5	0	5	32663	119	5	0	5	30899	113	5	0	5
			5W	32519	118	5	0	4	32421	118	5	0	4	30671	112	5	0	4
			C	32440	118	3	0	5	32440	118	3	0	5	30403	111	3	0	5
			FR	33711	123	2	0	2	33610	122	2	0	2	31795	116	2	0	2
			TC	33413	122	3	0	3	33313	121	3	0	3	31515	115	3	0	3
	325	325.0	2	36969	114	3	0	4	36858	113	3	0	4	34868	107	3	0	4
			3	36597	113	3	0	5	36487	112	3	0	5	34517	106	3	0	5
			4F	37159	114	3	0	5	37047	114	3	0	5	35047	108	3	0	5
			4W	36667	113	3	0	5	36557	112	3	0	5	34583	106	3	0	5
			5QM	37816	116	5	0	3	37703	116	5	0	3	35667	110	5	0	3
			5QN	37839	116	5	0	1	37726	116	5	0	1	35688	110	5	0	1
			5QW	35133	108	5	0	5	35028	108	5	0	5	33137	102	5	0	5
			5RW	37005	114	5	0	5	36894	114	5	0	5	34902	107	5	0	5
			5W	36731	113	5	0	4	36621	113	5	0	4	34643	107	5	0	4
			C	36642	113	3	0	5	36642	113	3	0	5	34341	106	3	0	5
			FR	38078	117	3	0	2	37964	117	3	0	2	35914	111	3	0	2
			TC	37742	116	3	0	3	37629	116	3	0	3	35597	110	3	0	3

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	365	357.7	2	40171	112	3	0	4	40051	112	3	0	4	37888	106	3	0	4
			3	39767	111	3	0	5	39648	111	3	0	5	37507	105	3	0	5
			4F	40377	113	3	0	5	40257	113	3	0	5	38083	106	3	0	5
			4W	39843	111	3	0	5	39724	111	3	0	5	37579	105	3	0	5
			5QM	41092	115	5	0	3	40969	115	5	0	3	38756	108	5	0	3
			5QN	41117	115	5	0	1	40994	115	5	0	1	38780	108	5	0	1
			5QW	38177	107	5	0	5	38063	106	5	0	5	36007	101	5	0	5
			5RW	40210	112	5	0	5	40090	112	5	0	5	37925	106	5	0	5
			5W	39913	112	5	0	4	39793	111	5	0	4	37644	105	5	0	4
			C	39816	111	3	0	5	39816	111	3	0	5	37316	104	3	0	5
			FR	41377	116	3	0	2	41253	115	3	0	2	39025	109	3	0	2
			TC	41011	115	3	0	3	40888	114	3	0	3	38680	108	3	0	3

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - MICROSTRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
		480	0.61	
	340	120	2.89	347.1
		208	1.67	
		240	1.45	
277		1.25		
347		1.00		
		480	0.72	

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - STRIKE OPTICS

# OF LEDs	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36	39	120	0.326	39.1
		208	0.188	
		240	0.163	
		277	0.141	
		347	0.113	
		480	0.081	
	55	120	0.473	56.8
		208	0.273	
		240	0.237	
		277	0.205	
		347	0.164	
		480	0.118	
	85	120	0.697	83.6
		208	0.402	
		240	0.348	
		277	0.302	
		347	0.241	
		480	0.174	
	105	120	0.902	108.2
		208	0.520	
		240	0.451	
		277	0.391	
		347	0.312	
		480	0.225	
120	120	1.008	120.9	
	208	0.581		
	240	0.504		
	277	0.436		
	347	0.348		
	480	0.252		

# OF LEDs	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
72L	115	120	0.934	112.1
		208	0.539	
		240	0.467	
		277	0.405	
		347	0.323	
		480	0.234	
	145	120	1.177	141.2
		208	0.679	
		240	0.588	
		277	0.510	
		347	0.407	
		480	0.294	
	180	120	1.475	177.0
		208	0.851	
		240	0.738	
		277	0.639	
		347	0.510	
		480	0.369	
	210	120	1.811	217.3
		208	1.045	
		240	0.905	
		277	0.784	
		347	0.626	
		480	0.453	
240	120	1.988	238.6	
	208	1.147		
	240	0.994		
	277	0.861		
	347	0.688		
	480	0.497		
108L	215	120	1.792	215.0
		208	1.034	
		240	0.896	
		277	0.776	
		347	0.620	
		480	0.448	
	250	120	2.063	247.5
		208	1.190	
		240	1.031	
		277	0.894	
		347	0.713	
		480	0.516	
	280	120	2.288	274.6
		208	1.320	
		240	1.144	
		277	0.991	
		347	0.791	
		480	0.572	
	325	120	2.708	325.0
		208	1.563	
		240	1.354	
		277	1.173	
		347	0.937	
		480	0.677	
365	120	2.981	357.7	
	208	1.720		
	240	1.490		
	277	1.291		
	347	1.031		
	480	0.745		

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-
3000K	0.977	0.861	0.647
3500K	-	0.900	-
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

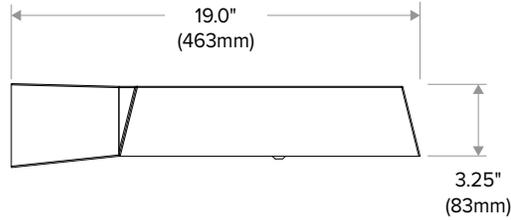
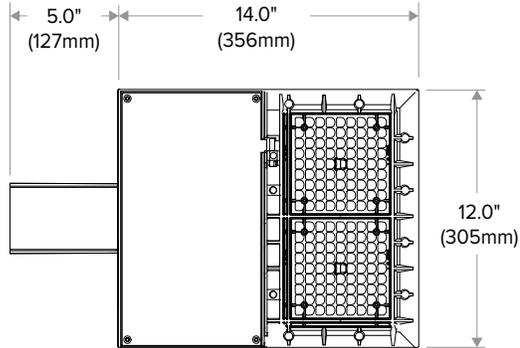
Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	<a href="#">See Amber Spec Sheet</a>		

# RATIO Series

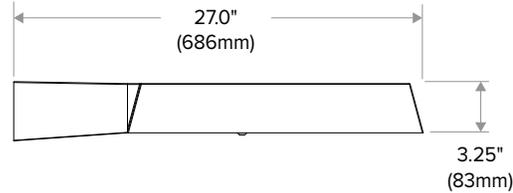
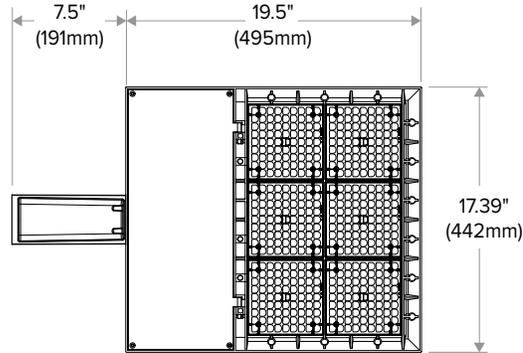
AREA/SITE LIGHTER

## DIMENSIONS

RAR1

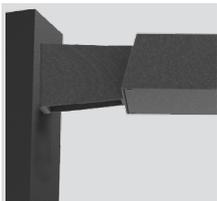


RAR2



## ADDITIONAL INFORMATION

### MOUNTING



**Arm Mount – ASQ:** Fixture ships with integral arm for ease of installation.



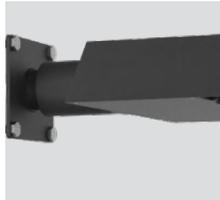
**Knuckle –** Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



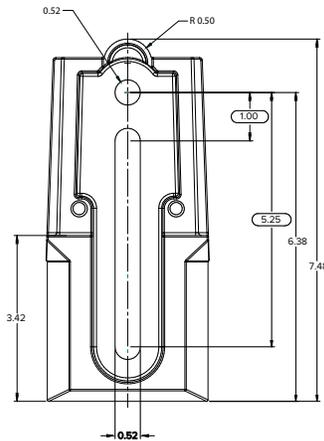
**Universal Mounting –** Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and S2 and B3 drill patterns



**MAF –** Fits 2-3/8" OD arms Roadway applications.



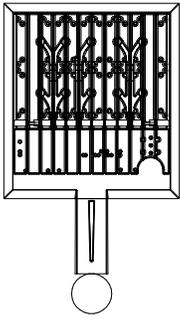
**Wall Mount –** Wall mount bracket designed for building mount applications.



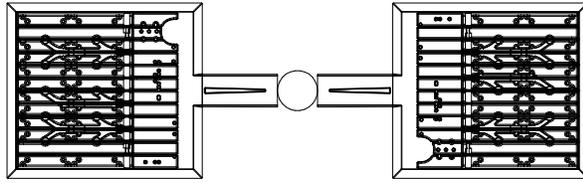
# RATIO Series

AREA/SITE LIGHTER

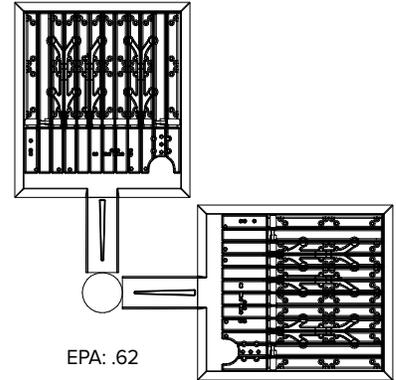
## EPA (RAR1)



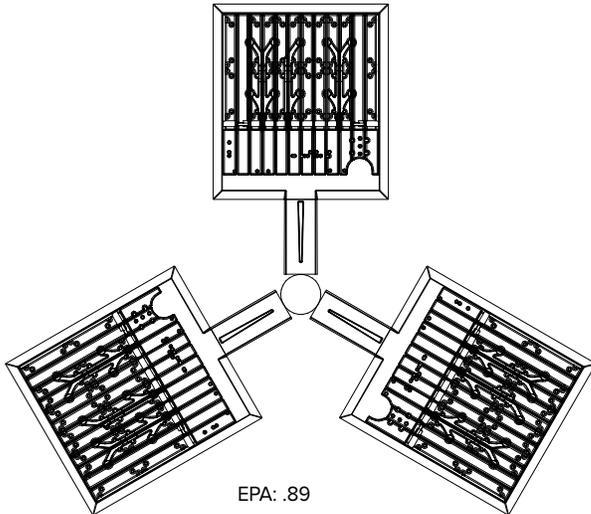
EPA Knuckle Mount 0 degrees: .43  
 EPA Knuckle Mount 30 degrees: .55  
 EPA Arm Mount: 0 degrees .45



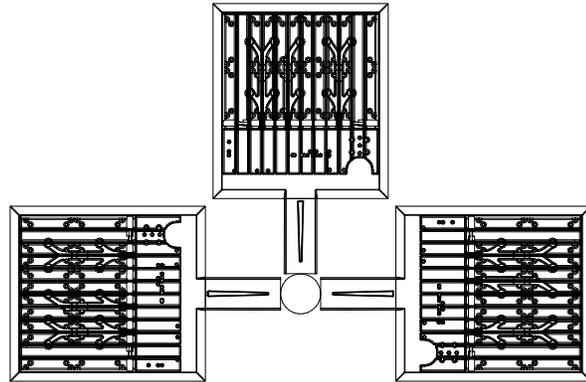
EPA: .99



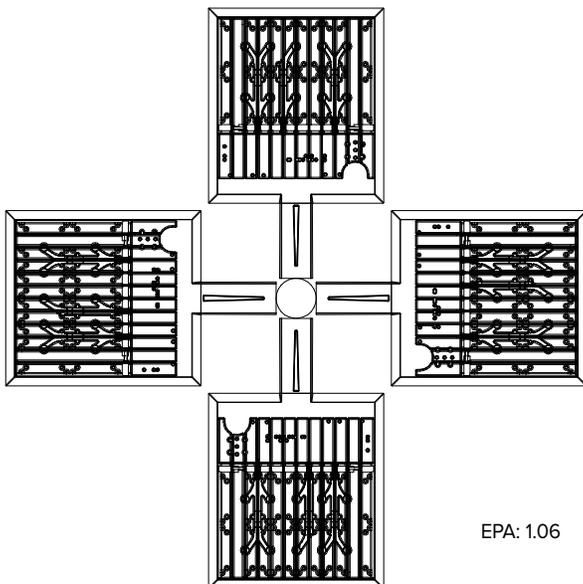
EPA: .62



EPA: .89



EPA: .99

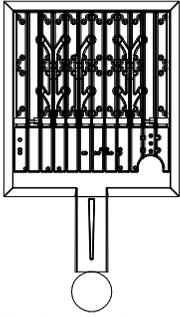


EPA: 1.06

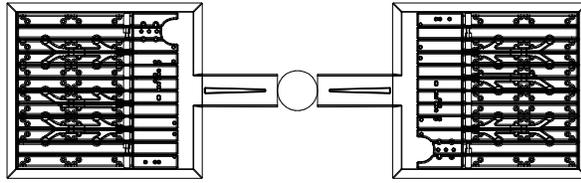
# RATIO Series

AREA/SITE LIGHTER

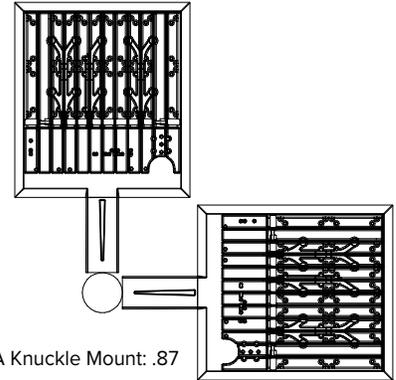
## EPA (RAR2)



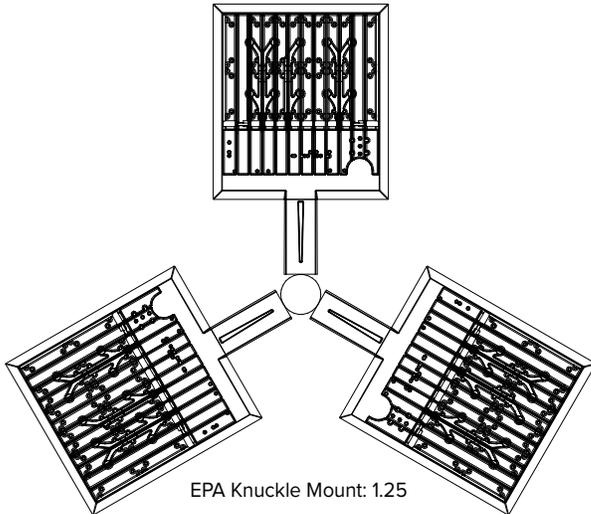
EPA Knuckle Mount: .52  
EPA Arm Mount: .55



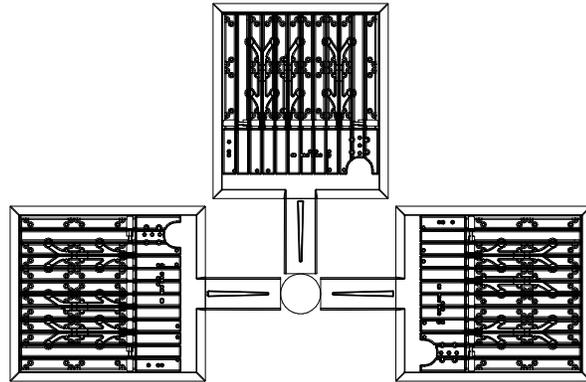
EPA: 1.486



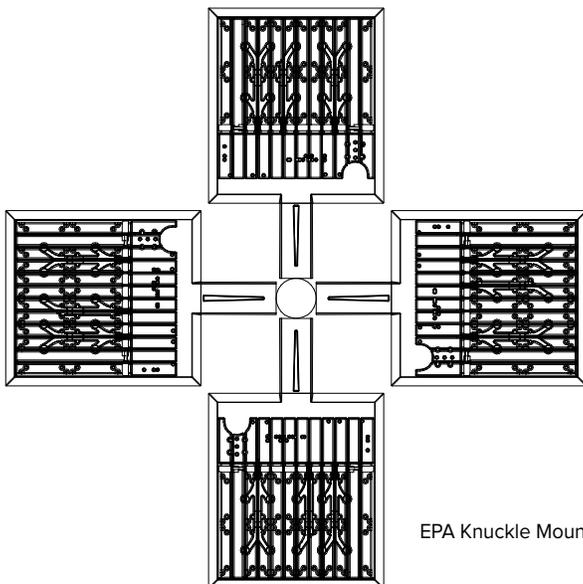
EPA Knuckle Mount: .87



EPA Knuckle Mount: 1.25



EPA Knuckle Mount: 1.41



EPA Knuckle Mount: 1.56

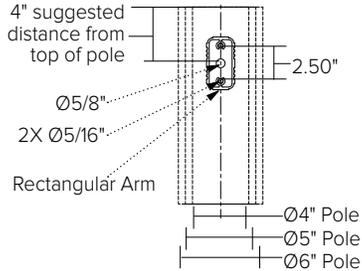
# RATIO Series

AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

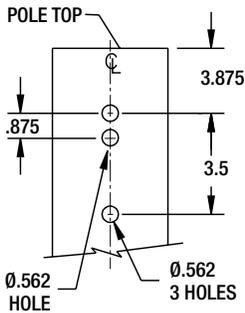
### ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



### UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

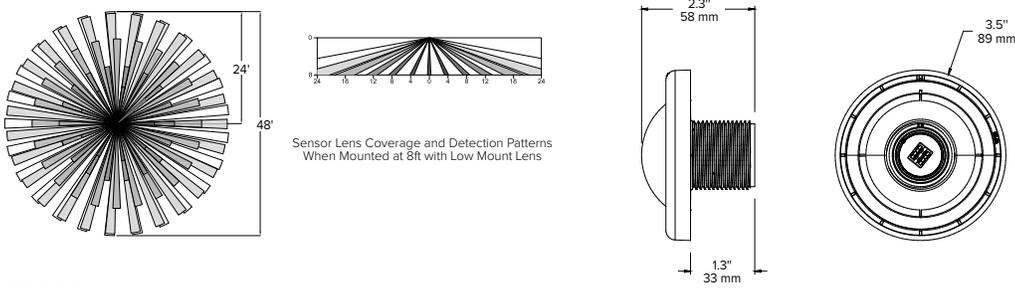
ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

# RATIO Series

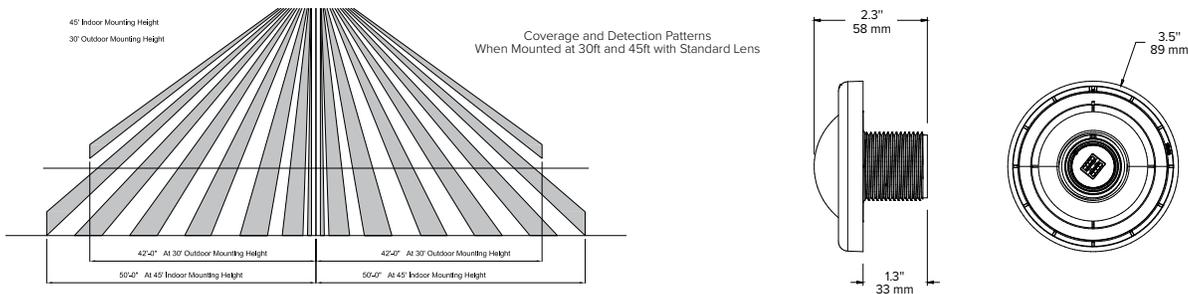
AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

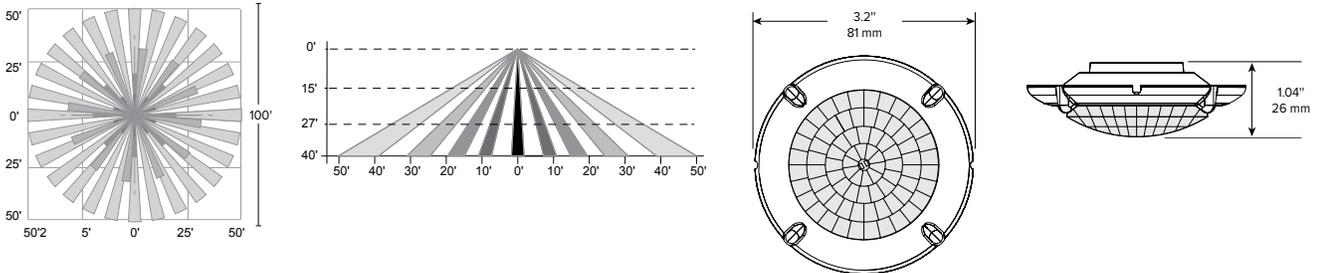
### NXSP-14F



### NXSP-30F



### SCP-40F



### RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. <sup>2</sup> .13m <sup>2</sup>	.56ft. <sup>2</sup> .17m <sup>2</sup>

### RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. <sup>2</sup> .17m <sup>2</sup>	1.48ft. <sup>2</sup> .45m <sup>2</sup>

### SHIPPING

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

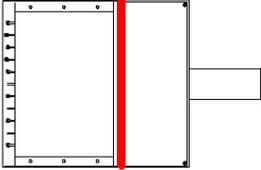
# RATIO Series

AREA/SITE LIGHTER

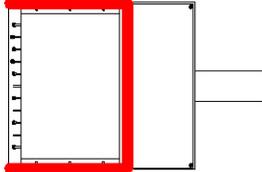
## ADDITIONAL INFORMATION (CONT'D)

### RATIO HOUSE SIDE SHIELD

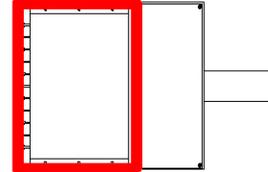
RARx HSS-90-B-xx



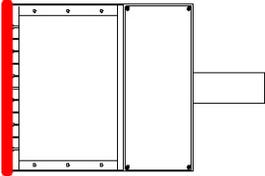
RARx HSS-270-BSS-xx



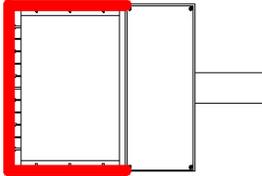
RARx HSS-360-xx



RARx HSS-90-F-xx

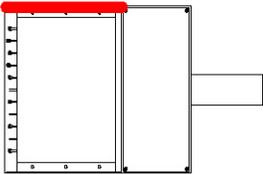


RARx HSS-270-FSS-xx

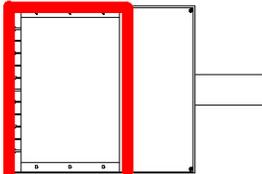


**Note:** Not to be used with  
Occupancy Sensors as the shield  
may block the light to the sensor

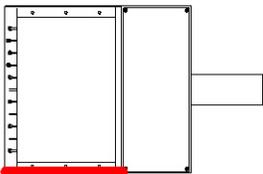
RARx HSS-90-S-xx



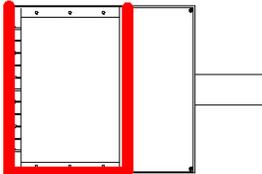
RARx HSS-270-FSB-xx



RARx HSS-90-S-xx



RARx HSS-270-FSB-xx



# RATIO Series

AREA/SITE LIGHTER

## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



## CONTROL TECHNOLOGY



## SERVICE PROGRAMS

**STOCK QS10**

## SPECIFICATIONS

### CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

## MICROSTRIKE | STRIKE OPTICS



	Weight	EPA at 0°
RAR1	13.5 lbs / 61 kg	.45ft. <sup>2</sup> / .13m <sup>2</sup>
RAR2	24 lbs / 10.9 kg	.55ft. <sup>2</sup> / .17m <sup>2</sup>

### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to [www.designlights.org](http://www.designlights.org) for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

### WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

 Gray Shading = Service Program  
 Limit of 15 luminaires


## MICRO STRIKE OPTICS - ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXW-BC

CATALOG # \_\_\_\_\_

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Micro Strike	<b>80L-25</b> 25W - 3,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>2</b> IES TYPE II	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>80L-39</b> 39W - 5,200 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>3</b> IES TYPE III	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>80L-50</b> 50W - 6,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>4W</b> IES TYPE IV	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>160L-70</b> 70W - 9,000 Lumens		<b>4F</b> IES TYPE IV Forward		<b>240</b> 240V
	<b>160L-100</b> 100W - 12,000 Lumens		<b>5QW</b> IES TYPE V		<b>277</b> 277V
	<b>160L-115</b> 115W - 15,000 Lumens				<b>347</b> 347V
	<b>160L-135</b> 135W - 18,000 Lumens				<b>480</b> 480V
<b>RAR2</b> Ratio Area Size 2 - Micro Strike	<b>320L-110</b> 110W - 15,000 Lumens				
	<b>320L-140</b> 140W - 18,000 Lumens				
	<b>320L-165</b> 165W - 21,000 Lumens				
	<b>480L-185</b> 185W - 24,000 Lumens				
	<b>480L-210</b> 210W - 27,000 Lumens				
	<b>480L-240</b> 240W - 30,000 Lumens				
	<b>480L-255</b> 255W - 36,000 Lumens				
	<b>480L-295</b> 295W - 42,000 Lumens				
<b>480L-340</b> 340W - 48,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 70 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER STRIKE

## STRIKE OPTIC - ORDERING GUIDE

Example: RAR1-36L-39-3K7-2-UNV-ASQ-BLT-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Strike Optics	<b>36L-39</b> 39W - 5,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>FR</b> Auto Front Row	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>36L-55</b> 55W - 7,000 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>2</b> Type 2	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>36L-85</b> 85W - 10,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>3</b> Type 3	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>36L-105</b> 105W - 12,000 Lumens	<b>3K8</b> 3000K, 80 CRI	<b>4F</b> Type 4 Forward		<b>240</b> 240V
	<b>36L-120</b> 120W - 13,000 Lumens	<b>4K8</b> 4000K, 80 CRI	<b>4W</b> Type 4 Wide		<b>277</b> 277V
	<b>72L-115</b> 115W - 14,000 Lumens	<b>5K8</b> 5000K, 80 CRI	<b>5QN</b> Type 5 Square Narrow		<b>347</b> 347V
	<b>72L-145</b> 145W - 17,000 Lumens		<b>5QW</b> Type 5 Square Wide		<b>480</b> 480V
	<b>RAR2</b> Ratio Area Size 2 - Strike Optics	<b>72L-180</b> 180W - 20,000 Lumens		<b>5QM</b> Type 5 Square Medium	
<b>72L-210</b> 210W - 24,000 Lumens			<b>5W</b> Type 5 Wide (Round)		
<b>72L-240</b> 240W - 26,000 Lumens			<b>5RW</b> Type 5 Rectangular		
<b>108L-215</b> 215W - 27,000 Lumens			<b>C</b> Corner Optic		
<b>108L-250</b> 250W - 30,000 Lumens			<b>TC</b> Tennis Court Optic		
<b>108L-280</b> 280W - 33,000 Lumens					
<b>108L-325</b> 325W - 37,000 Lumens					
<b>108L-365</b> 365W - 40,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Bronze Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 50 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

## CONTROLS FUNCTIONALITY



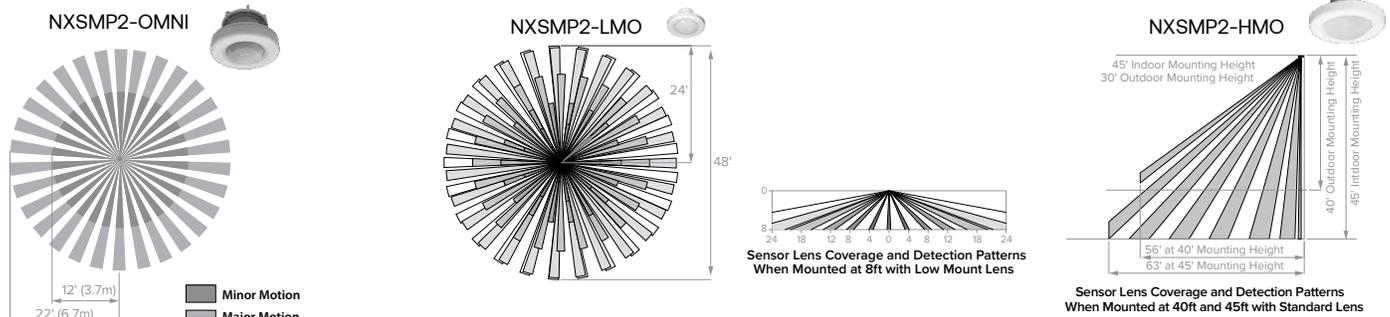
Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components	
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height			
NX Wireless	NXOFM2-1R1D-UNV	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM2-1R1D-UNV
	NXW	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
Independent	BTSO-12F	-	-	-	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
	BTS-14F	-	-	-	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
	BTS-40F	-	-	-	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

## DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	*Passcode Factory Passcode: HubbN3T!	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

## NX WIRELESS COVERAGE PATTERNS



## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US)



Apple App



Google Play

# RATIO Series

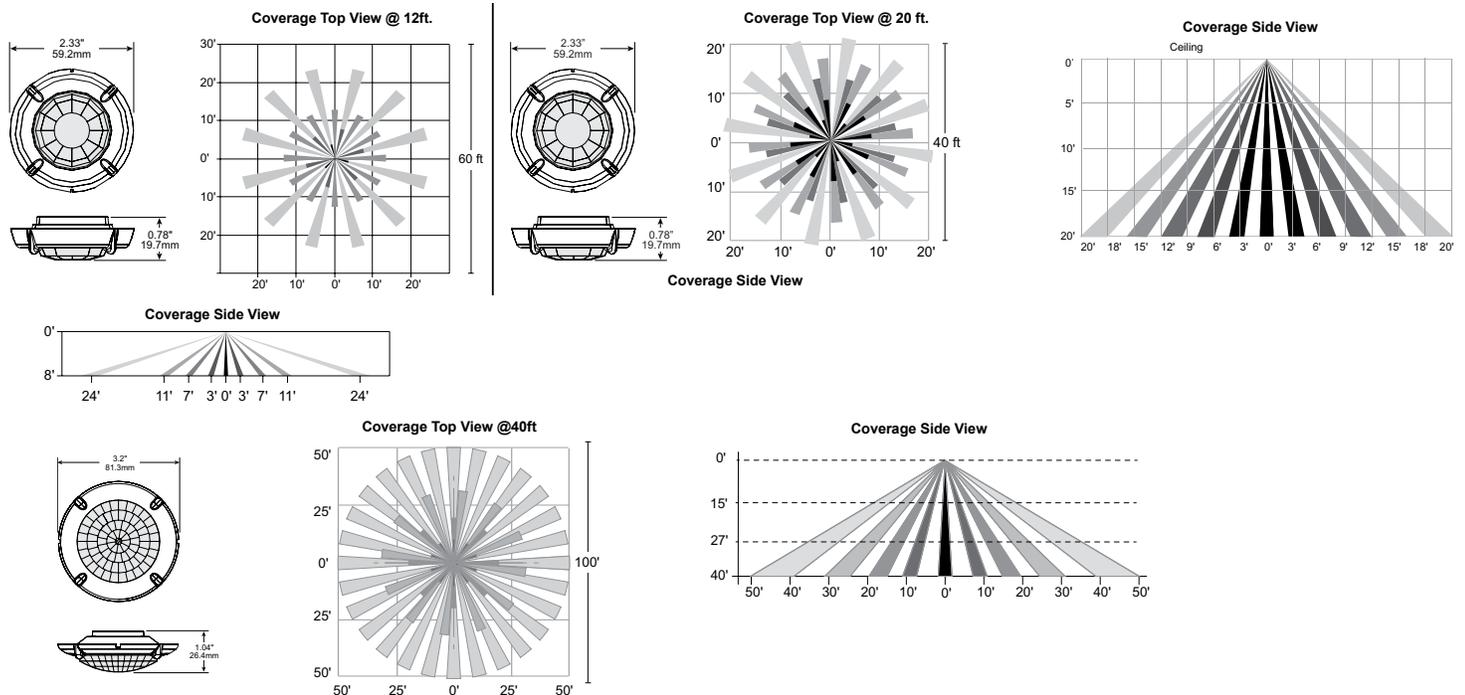
AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

### CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
SCP_F Sensor Control Programmable, sensor range, reference product specification for height selections	-	-	-	✓	✓	✓	✓	-	8ft or 20ft	SCP_F
ADD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD
ADT AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT
7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR
7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 7PR-SC
7PR-TL 7-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	 7PR-TL

### COVERAGE PATTERNS FOR SCP\_F



### PROGRAMMED CONTROLS

#### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

#### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

# RATIO Series

AREA/SITE LIGHTER

## STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

## POLE COMBOS

Catalog Number	Pole	Single or Double Head	Fixture	Lumens	Wattage	Distribution	CCT/CRI	Mounting	Finish
RAR1-100-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
SSSH-20-40-STK	20' Square Straight Steel	Pole Only	Not Included						
SSSH-25-40-STK	25' Square Straight Steel	Pole Only	Not Included						
SSSH-STK-4-KIT		Kit Only	Not Included						

# RATIO Series

AREA/SITE LIGHTER

## CONTROLS

### Control Options

#### Standalone

**SCPREMOTE** Order at least one per project location to program and control

#### Networked – Wireless

**WIR-RME-L** LightGRID+ External Fixture Module<sup>1,2</sup>

#### NX Networked – Wireless

**NXOFM-1R1D-UNV** NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

#### Notes:

- 1 Works with external networked photosensor
- 2 LightGRID+ Gateway required for system programming

## OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> ACC-O-RAR-ST1-SHLD-BC-36L	Back Light Control for RAR1 Strike 36L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-72L	Back Light Control for RAR2 Strike 72L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-108L	Back Light Control for RAR2 Strike 108L
<input type="checkbox"/> ACC-O-RAR-ST3-SHLD-BC-162L	Back Light Control for RAR3 Strike 162L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-80L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 80L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-160L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 160L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-320L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 320L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-480L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 480L
<input type="checkbox"/> ACC-O-RAR3-SHLD-BC-720L-X <sup>1</sup>	Back Light Control for RAR3 Micro Strike 720L

- 1 Replace X with distribution type ("2" for Type 2, "3" for Type 3, "4F" for Type 4F, Type "4W" for Type 4W)

## ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface <sup>2</sup>
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles <sup>1,2</sup>
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter <sup>1,2</sup>
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter <sup>2</sup>
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately <sup>2</sup>
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle <sup>2</sup>

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Replace "XX" with desired color/paint finish

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

## PERFORMANCE DATA - MICRO STRIKE

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2

RAR2 Performance Data on next page

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - MICROSTRIKE (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	39	39.1	2	5385	138	1	0	1	5369	137	1	0	1	5079	130	1	0	1
			3	5331	136	1	0	2	5315	136	1	0	2	5028	129	1	0	2
			4F	5413	138	1	0	2	5396	137	1	0	2	5105	130	1	0	2
			4W	5341	137	1	0	2	5325	136	1	0	2	5037	129	1	0	2
			5QM	5508	140	2	0	1	5492	140	2	0	1	5195	132	2	0	1
			5QN	5512	140	2	0	0	5495	140	2	0	0	5198	132	2	0	0
			5QW	5118	131	3	0	2	5102	130	3	0	2	4827	123	3	0	2
			5RW	5390	138	3	0	3	5374	137	3	0	3	5084	130	3	0	3
			5W	5350	137	3	0	1	5334	136	3	0	1	5046	129	3	0	1
			C	5002	120	1	0	2	5002	120	1	0	2	5002	128	1	0	2
			FR	5547	141	1	0	1	5530	141	1	0	1	5231	133	1	0	1
			TC	5498	140	1	0	1	5481	140	1	0	1	5185	132	1	0	1
	55	56.8	2	7350	129	1	0	2	7329	129	1	0	2	6933	122	1	0	2
			3	7276	128	1	0	2	7255	128	1	0	2	6863	121	1	0	2
			4F	7388	130	1	0	2	7366	130	1	0	2	6968	123	1	0	2
			4W	7290	128	1	0	3	7269	128	1	0	3	6876	121	1	0	2
			5QM	7519	132	3	0	1	7496	132	3	0	1	7092	125	3	0	1
			5QN	7523	132	3	0	0	7501	132	3	0	0	7096	125	3	0	0
			5QW	6986	123	3	0	2	6965	123	3	0	2	6589	116	3	0	2
			5RW	7358	130	3	0	3	7336	129	3	0	3	6940	122	3	0	3
			5W	7303	129	3	0	2	7281	128	3	0	2	6888	121	3	0	2
			C	6828	113	1	0	2	6828	113	1	0	2	6828	120	1	0	2
			FR	7571	133	1	0	1	7548	133	1	0	1	7141	126	1	0	1
			TC	7504	132	1	0	1	7482	132	1	0	1	7078	125	1	0	1
	85	83.6	2	10081	121	2	0	2	10051	120	2	0	2	9508	114	2	0	2
			3	9979	119	2	0	2	9949	119	2	0	2	9412	113	1	0	2
			4F	10132	121	1	0	2	10102	121	1	0	2	9557	114	1	0	2
			4W	9998	120	1	0	3	9968	119	1	0	3	9430	113	1	0	3
			5QM	10312	123	3	0	1	10281	123	3	0	1	9726	116	3	0	1
			5QN	10318	123	3	0	0	10287	123	3	0	0	9732	116	3	0	0
			5QW	9580	115	4	0	3	9552	114	4	0	3	9036	108	4	0	3
			5RW	10090	121	4	0	4	10060	120	4	0	4	9517	114	3	0	3
			5W	10016	120	4	0	2	9986	119	4	0	2	9447	113	3	0	2
C			9364	105	2	0	2	9364	105	2	0	2	9364	112	2	0	2	
FR			10383	124	1	0	1	10352	124	1	0	1	9793	117	1	0	1	
TC			10291	123	1	0	1	10261	123	1	0	1	9707	116	1	0	1	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	105	108.2	2	12321	114	2	0	2	12284	114	2	0	2	11621	107	2	0	2
			3	12197	113	2	0	3	12160	112	2	0	3	11504	106	2	0	3
			4F	12384	114	1	0	3	12347	114	1	0	3	11680	108	1	0	2
			4W	12220	113	2	0	3	12183	113	2	0	3	11526	107	1	0	3
			5QM	12603	116	3	0	2	12565	116	3	0	2	11887	110	3	0	2
			5QN	12611	117	3	0	0	12573	116	3	0	0	11894	110	3	0	0
			5QW	11709	108	4	0	3	11674	108	4	0	3	11044	102	4	0	3
			5RW	12333	114	4	0	4	12296	114	4	0	4	11632	108	4	0	4
			5W	12241	113	4	0	2	12205	113	4	0	2	11546	107	4	0	2
			C	11445	99	2	0	2	11445	99	2	0	2	11445	106	2	0	2
			FR	12690	117	1	0	1	12653	117	1	0	1	11969	111	1	0	1
	TC	12578	116	1	0	2	12541	116	1	0	2	11864	110	1	0	2		
	120	120.9	2	13398	111	2	0	2	13358	110	2	0	2	12636	105	2	0	2
			3	13263	110	2	0	3	13223	109	2	0	3	12509	103	2	0	3
			4F	13467	111	1	0	3	13426	111	1	0	3	12701	105	1	0	3
			4W	13288	110	2	0	3	13248	110	2	0	3	12533	104	2	0	3
			5QM	13705	113	3	0	2	13664	113	3	0	2	12926	107	3	0	2
			5QN	13713	113	4	0	0	13672	113	4	0	0	12934	107	3	0	0
			5QW	12733	105	4	0	3	12695	105	4	0	3	12009	99	4	0	3
			5RW	13411	111	4	0	4	13371	111	4	0	4	12649	105	4	0	4
			5W	13312	110	4	0	2	13272	110	4	0	2	12555	104	4	0	2
			C	12446	96	2	0	2	12446	96	2	0	2	12446	103	2	0	2
FR			13800	114	1	0	1	13758	114	1	0	1	13016	108	1	0	1	
TC	13678	113	1	0	2	13637	113	1	0	2	12901	107	1	0	2			

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	115	112.1	2	14701	131	2	0	2	14657	131	2	0	2	13866	124	2	0	2
			3	14553	130	2	0	3	14509	129	2	0	3	13726	122	2	0	3
			4F	14776	132	1	0	3	14732	131	1	0	3	13937	124	1	0	3
			4W	14581	130	2	0	3	14537	130	2	0	3	13752	123	2	0	3
			5QM	15038	134	3	0	2	14993	134	3	0	2	14183	127	3	0	2
			5QN	15047	134	4	0	0	15002	134	4	0	0	14192	127	4	0	0
			5QW	13971	125	4	0	3	13929	124	4	0	3	13177	118	4	0	3
			5RW	14715	131	4	0	4	14671	131	4	0	4	13879	124	4	0	4
			5W	14606	130	4	0	2	14563	130	4	0	2	13776	123	4	0	2
			C	14571	130	2	0	3	14571	130	2	0	3	13656	122	2	0	3
			FR	15142	135	2	0	1	15097	135	2	0	1	14282	127	1	0	1
			TC	15008	134	2	0	2	14963	133	2	0	2	14155	126	1	0	2
	145	141.2	2	17797	126	3	0	3	17744	126	3	0	3	16786	119	3	0	3
			3	17618	125	2	0	3	17565	124	2	0	3	16617	118	2	0	3
			4F	17889	127	2	0	3	17835	126	2	0	3	16872	119	2	0	3
			4W	17652	125	2	0	4	17599	125	2	0	4	16649	118	2	0	4
			5QM	18205	129	4	0	2	18151	129	4	0	2	17170	122	4	0	2
			5QN	18216	129	4	0	0	18162	129	4	0	0	17181	122	4	0	0
			5QW	16914	120	4	0	3	16863	119	4	0	3	15953	113	4	0	3
			5RW	17815	126	4	0	4	17761	126	4	0	4	16802	119	4	0	4
			5W	17683	125	4	0	2	17630	125	4	0	2	16678	118	4	0	2
			C	17640	125	3	0	3	17640	125	3	0	3	16532	117	3	0	3
			FR	18331	130	2	0	2	18276	129	2	0	2	17290	122	2	0	2
			TC	18169	129	2	0	2	18115	128	2	0	2	17137	121	2	0	2
	180	177.0	2	21314	120	3	0	3	21250	120	3	0	3	20102	114	3	0	3
			3	21099	119	3	0	4	21036	119	3	0	4	19900	112	3	0	4
			4F	21423	121	2	0	4	21359	121	2	0	4	20206	114	2	0	4
			4W	21139	119	2	0	4	21076	119	2	0	4	19938	113	2	0	4
			5QM	21802	123	4	0	2	21737	123	4	0	2	20563	116	4	0	2
			5QN	21815	123	4	0	0	21750	123	4	0	0	20575	116	4	0	0
			5QW	20256	114	5	0	4	20195	114	5	0	4	19104	108	5	0	3
			5RW	21334	121	5	0	5	21271	120	5	0	5	20122	114	5	0	5
			5W	21176	120	5	0	3	21113	119	5	0	3	19973	113	5	0	3
C			21125	119	3	0	4	21125	119	3	0	4	19799	112	3	0	4	
FR			21953	124	2	0	2	21888	124	2	0	2	20706	117	2	0	2	
TC			21759	123	2	0	2	21694	123	2	0	2	20523	116	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	210	217.3	2	24102	111	3	0	3	24030	111	3	0	3	22732	105	3	0	3
			3	23859	110	3	0	4	23788	109	3	0	4	22503	104	3	0	4
			4F	24226	111	2	0	4	24153	111	2	0	4	22849	105	2	0	4
			4W	23905	110	3	0	5	23833	110	3	0	5	22546	104	2	0	4
			5QM	24654	113	4	0	2	24581	113	4	0	2	23253	107	4	0	2
			5QN	24669	114	5	0	1	24595	113	5	0	1	23267	107	5	0	0
			5QW	22905	105	5	0	4	22837	105	5	0	4	21604	99	5	0	4
			5RW	24126	111	5	0	5	24053	111	5	0	5	22754	105	5	0	5
			5W	23947	110	5	0	3	23875	110	5	0	3	22586	104	5	0	3
			C	23889	110	3	0	4	23889	110	3	0	4	22389	103	3	0	4
			FR	24825	114	2	0	2	24751	114	2	0	2	23414	108	2	0	2
			TC	24606	113	2	0	2	24532	113	2	0	2	23207	107	2	0	2
	240	238.6	2	26781	112	3	0	4	26701	112	3	0	4	25259	106	3	0	3
			3	26511	111	3	0	4	26432	111	3	0	4	25005	105	3	0	4
			4F	26918	113	2	0	4	26838	112	2	0	4	25389	106	2	0	4
			4W	26562	111	3	0	5	26483	111	3	0	5	25053	105	3	0	5
			5QM	27395	115	4	0	2	27313	114	4	0	2	25838	108	4	0	2
			5QN	27411	115	5	0	1	27329	115	5	0	1	25853	108	5	0	1
			5QW	25451	107	5	0	4	25375	106	5	0	4	24005	101	5	0	4
			5RW	26807	112	5	0	5	26727	112	5	0	5	25284	106	5	0	5
			5W	26609	112	5	0	3	26529	111	5	0	3	25097	105	5	0	3
			C	26544	111	3	0	4	26544	111	3	0	4	24878	104	3	0	4
			FR	27585	116	2	0	2	27502	115	2	0	2	26017	109	2	0	2
			TC	27341	115	2	0	2	27259	114	2	0	2	25787	108	2	0	2
	215	215.0	2	26697	124	3	0	4	26617	124	3	0	4	25180	117	3	0	3
			3	26428	123	3	0	4	26349	123	3	0	4	24926	116	3	0	4
			4F	26834	125	2	0	4	26754	124	2	0	4	25309	118	2	0	4
			4W	26479	123	3	0	5	26400	123	3	0	5	24974	116	3	0	5
			5QM	27309	127	4	0	2	27227	127	4	0	2	25757	120	4	0	2
			5QN	27325	127	5	0	1	27243	127	5	0	1	25772	120	5	0	1
			5QW	25372	118	5	0	4	25296	118	5	0	4	23930	111	5	0	4
			5RW	26723	124	5	0	5	26643	124	5	0	5	25204	117	5	0	5
			5W	26525	123	5	0	3	26446	123	5	0	3	25018	116	5	0	3
C			26461	123	3	0	4	26461	123	3	0	4	24799	115	3	0	4	
FR			27498	128	2	0	2	27416	128	2	0	2	25935	121	2	0	2	
TC			27255	127	2	0	2	27174	126	2	0	2	25706	120	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	250	247.5	2	30249	122	3	0	4	30159	122	3	0	4	28530	115	3	0	4
			3	29944	121	3	0	4	29855	121	3	0	4	28243	114	3	0	4
			4F	30404	123	2	0	5	30313	122	2	0	5	28676	116	2	0	5
			4W	30002	121	3	0	5	29912	121	3	0	5	28297	114	3	0	5
			5QM	30942	125	5	0	3	30849	125	5	0	3	29184	118	5	0	2
			5QN	30961	125	5	0	1	30868	125	5	0	1	29201	118	5	0	1
			5QW	28747	116	5	0	4	28661	116	5	0	4	27113	110	5	0	4
			5RW	30278	122	5	0	5	30188	122	5	0	5	28558	115	5	0	5
			5W	30054	121	5	0	4	29964	121	5	0	4	28346	115	5	0	3
			C	29982	121	3	0	4	29982	121	3	0	4	28099	114	3	0	4
			FR	31157	126	2	0	2	31063	126	2	0	2	29386	119	2	0	2
			TC	30881	125	3	0	3	30789	124	3	0	3	29126	118	3	0	2
	280	274.6	2	32729	119	3	0	4	32631	119	3	0	4	30869	112	3	0	4
			3	32400	118	3	0	5	32303	118	3	0	5	30558	111	3	0	5
			4F	32897	120	2	0	5	32799	119	2	0	5	31028	113	2	0	5
			4W	32462	118	3	0	5	32365	118	3	0	5	30617	112	3	0	5
			5QM	33479	122	5	0	3	33379	122	5	0	3	31577	115	5	0	3
			5QN	33499	122	5	0	1	33399	122	5	0	1	31596	115	5	0	1
			5QW	31104	113	5	0	5	31011	113	5	0	5	29337	107	5	0	4
			5RW	32761	119	5	0	5	32663	119	5	0	5	30899	113	5	0	5
			5W	32519	118	5	0	4	32421	118	5	0	4	30671	112	5	0	4
			C	32440	118	3	0	5	32440	118	3	0	5	30403	111	3	0	5
			FR	33711	123	2	0	2	33610	122	2	0	2	31795	116	2	0	2
			TC	33413	122	3	0	3	33313	121	3	0	3	31515	115	3	0	3
	325	325.0	2	36969	114	3	0	4	36858	113	3	0	4	34868	107	3	0	4
			3	36597	113	3	0	5	36487	112	3	0	5	34517	106	3	0	5
			4F	37159	114	3	0	5	37047	114	3	0	5	35047	108	3	0	5
			4W	36667	113	3	0	5	36557	112	3	0	5	34583	106	3	0	5
			5QM	37816	116	5	0	3	37703	116	5	0	3	35667	110	5	0	3
			5QN	37839	116	5	0	1	37726	116	5	0	1	35688	110	5	0	1
			5QW	35133	108	5	0	5	35028	108	5	0	5	33137	102	5	0	5
			5RW	37005	114	5	0	5	36894	114	5	0	5	34902	107	5	0	5
			5W	36731	113	5	0	4	36621	113	5	0	4	34643	107	5	0	4
C			36642	113	3	0	5	36642	113	3	0	5	34341	106	3	0	5	
FR			38078	117	3	0	2	37964	117	3	0	2	35914	111	3	0	2	
TC			37742	116	3	0	3	37629	116	3	0	3	35597	110	3	0	3	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	365	357.7	2	40171	112	3	0	4	40051	112	3	0	4	37888	106	3	0	4
			3	39767	111	3	0	5	39648	111	3	0	5	37507	105	3	0	5
			4F	40377	113	3	0	5	40257	113	3	0	5	38083	106	3	0	5
			4W	39843	111	3	0	5	39724	111	3	0	5	37579	105	3	0	5
			5QM	41092	115	5	0	3	40969	115	5	0	3	38756	108	5	0	3
			5QN	41117	115	5	0	1	40994	115	5	0	1	38780	108	5	0	1
			5QW	38177	107	5	0	5	38063	106	5	0	5	36007	101	5	0	5
			5RW	40210	112	5	0	5	40090	112	5	0	5	37925	106	5	0	5
			5W	39913	112	5	0	4	39793	111	5	0	4	37644	105	5	0	4
			C	39816	111	3	0	5	39816	111	3	0	5	37316	104	3	0	5
			FR	41377	116	3	0	2	41253	115	3	0	2	39025	109	3	0	2
			TC	41011	115	3	0	3	40888	114	3	0	3	38680	108	3	0	3

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - MICROSTRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
	340	120	2.89	347.1
		208	1.67	
		240	1.45	
		277	1.25	
347		1.00		
		480	0.72	

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - STRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36	39	120	0.326	39.1
		208	0.188	
		240	0.163	
		277	0.141	
		347	0.113	
		480	0.081	
	55	120	0.473	56.8
		208	0.273	
		240	0.237	
		277	0.205	
		347	0.164	
		480	0.118	
	85	120	0.697	83.6
		208	0.402	
		240	0.348	
		277	0.302	
		347	0.241	
		480	0.174	
	105	120	0.902	108.2
		208	0.520	
		240	0.451	
		277	0.391	
		347	0.312	
		480	0.225	
120	120	1.008	120.9	
	208	0.581		
	240	0.504		
	277	0.436		
	347	0.348		
	480	0.252		

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
72L	115	120	0.934	112.1
		208	0.539	
		240	0.467	
		277	0.405	
		347	0.323	
		480	0.234	
	145	120	1.177	141.2
		208	0.679	
		240	0.588	
		277	0.510	
		347	0.407	
		480	0.294	
	180	120	1.475	177.0
		208	0.851	
		240	0.738	
		277	0.639	
		347	0.510	
		480	0.369	
	210	120	1.811	217.3
		208	1.045	
		240	0.905	
		277	0.784	
		347	0.626	
		480	0.453	
240	120	1.988	238.6	
	208	1.147		
	240	0.994		
	277	0.861		
	347	0.688		
	480	0.497		
108L	215	120	1.792	215.0
		208	1.034	
		240	0.896	
		277	0.776	
		347	0.620	
		480	0.448	
	250	120	2.063	247.5
		208	1.190	
		240	1.031	
		277	0.894	
		347	0.713	
		480	0.516	
	280	120	2.288	274.6
		208	1.320	
		240	1.144	
		277	0.991	
		347	0.791	
		480	0.572	
	325	120	2.708	325.0
		208	1.563	
		240	1.354	
		277	1.173	
		347	0.937	
		480	0.677	
365	120	2.981	357.7	
	208	1.720		
	240	1.490		
	277	1.291		
	347	1.031		
	480	0.745		

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-
3000K	0.977	0.861	0.647
3500K	-	0.900	-
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

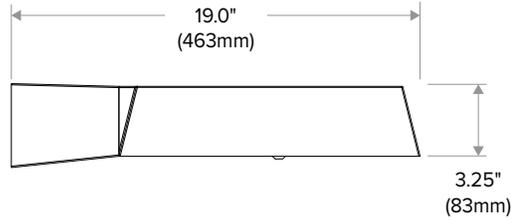
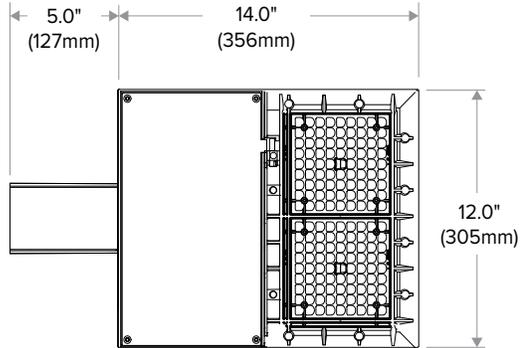
Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	<a href="#">See Amber Spec Sheet</a>		

# RATIO Series

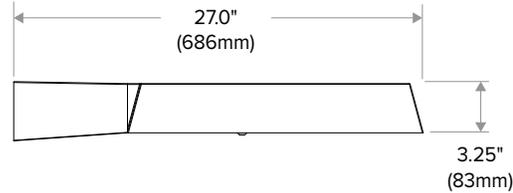
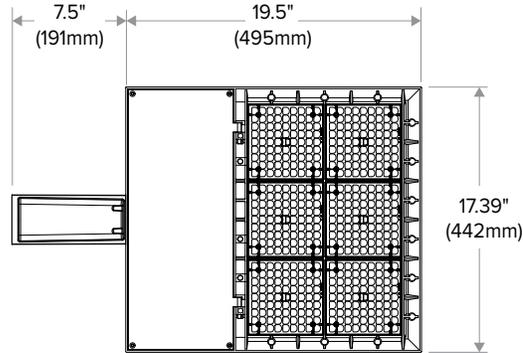
AREA/SITE LIGHTER

## DIMENSIONS

RAR1

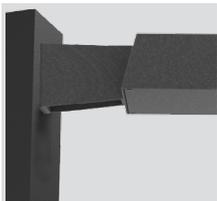


RAR2



## ADDITIONAL INFORMATION

### MOUNTING



**Arm Mount – ASQ:** Fixture ships with integral arm for ease of installation.



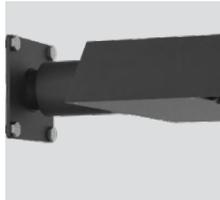
**Knuckle –** Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



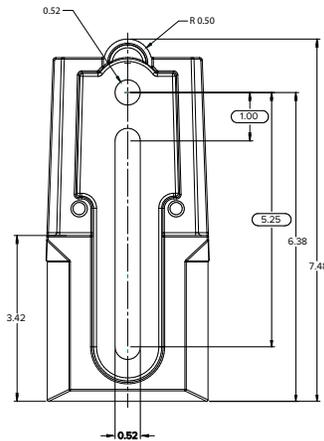
**Universal Mounting –** Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and S2 and B3 drill patterns



**MAF –** Fits 2-3/8" OD arms Roadway applications.



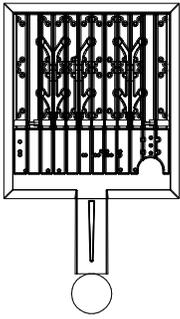
**Wall Mount –** Wall mount bracket designed for building mount applications.



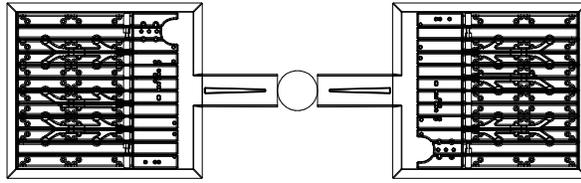
# RATIO Series

AREA/SITE LIGHTER

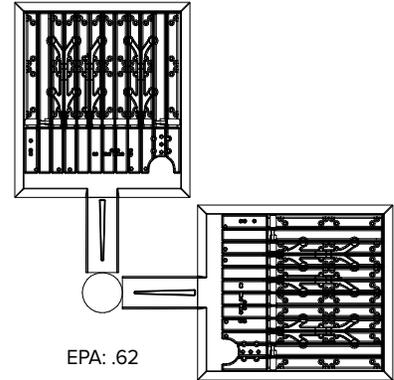
## EPA (RAR1)



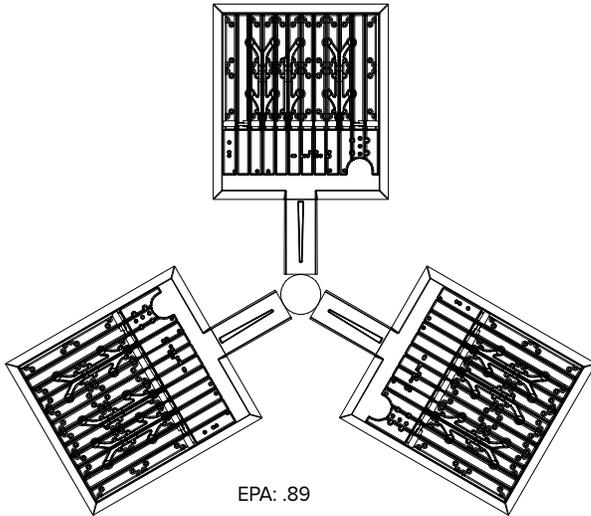
EPA Knuckle Mount 0 degrees: .43  
 EPA Knuckle Mount 30 degrees: .55  
 EPA Arm Mount: 0 degrees .45



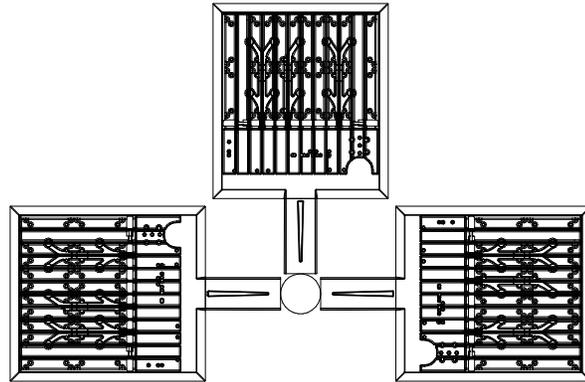
EPA: .99



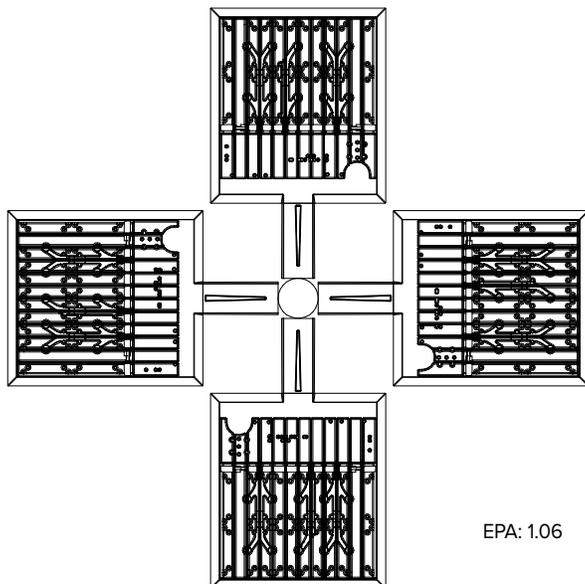
EPA: .62



EPA: .89



EPA: .99

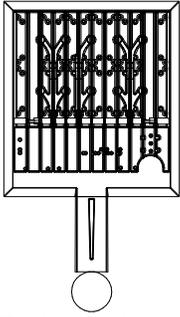


EPA: 1.06

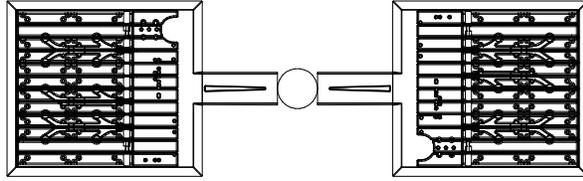
# RATIO Series

AREA/SITE LIGHTER

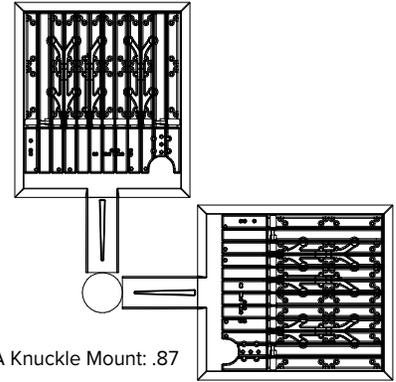
## EPA (RAR2)



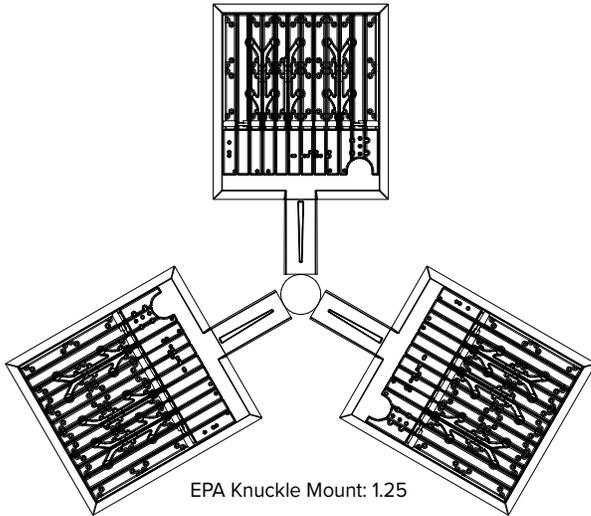
EPA Knuckle Mount: .52  
EPA Arm Mount: .55



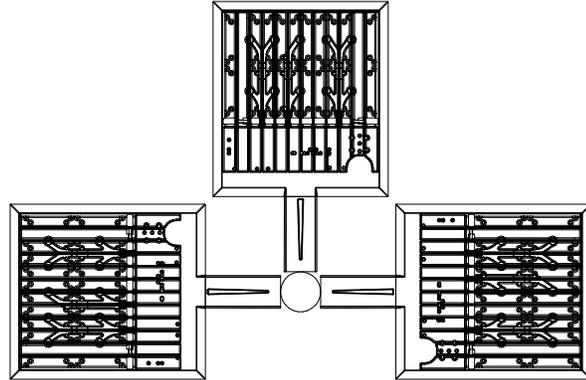
EPA: 1.486



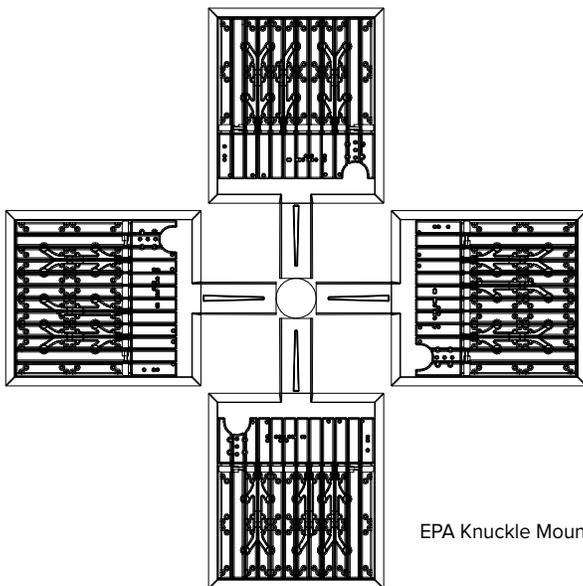
EPA Knuckle Mount: .87



EPA Knuckle Mount: 1.25



EPA Knuckle Mount: 1.41



EPA Knuckle Mount: 1.56

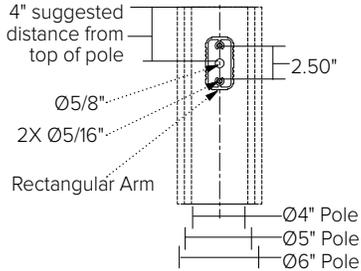
# RATIO Series

AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

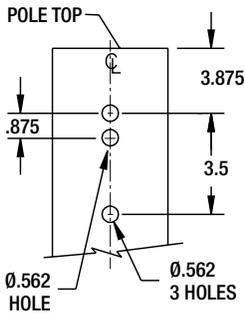
### ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



### UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

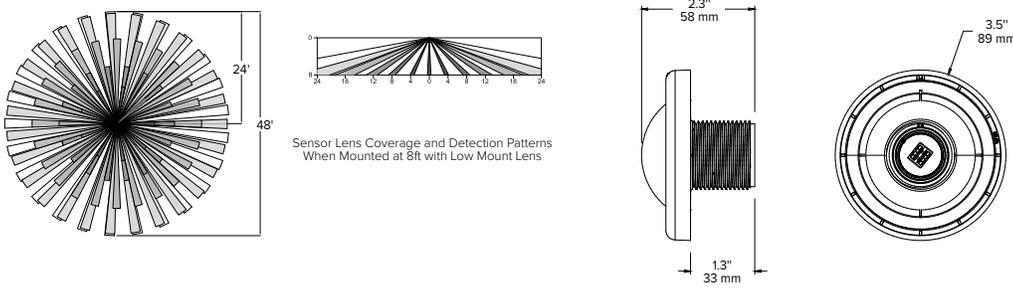
ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

# RATIO Series

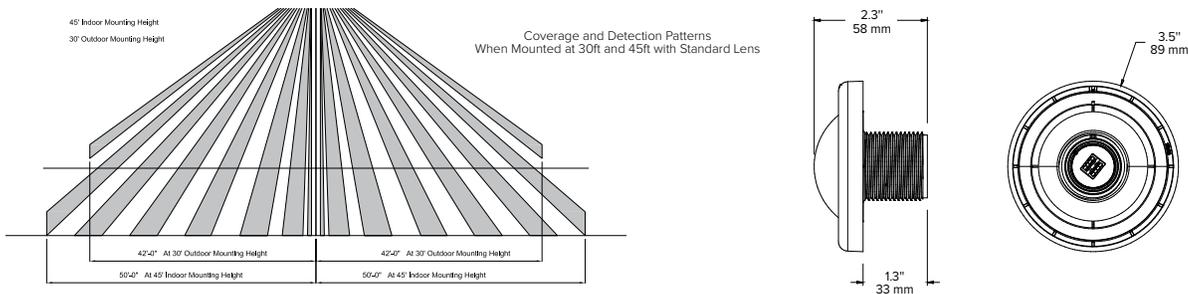
AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

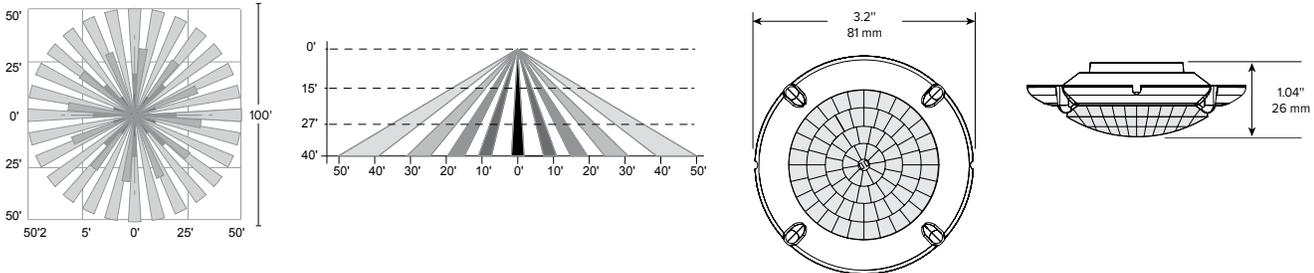
### NXSP-14F



### NXSP-30F



### SCP-40F



### RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. <sup>2</sup> .13m <sup>2</sup>	.56ft. <sup>2</sup> .17m <sup>2</sup>

### RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. <sup>2</sup> .17m <sup>2</sup>	1.48ft. <sup>2</sup> .45m <sup>2</sup>

### SHIPPING

Catalog Number	G.W(kg)/ CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

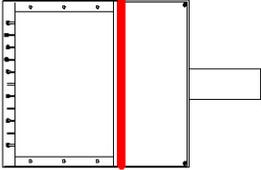
# RATIO Series

AREA/SITE LIGHTER

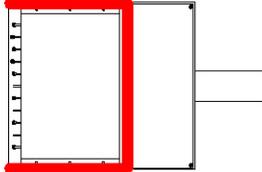
## ADDITIONAL INFORMATION (CONT'D)

### RATIO HOUSE SIDE SHIELD

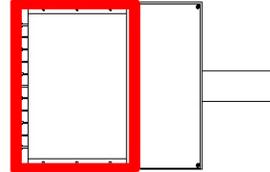
RARx HSS-90-B-xx



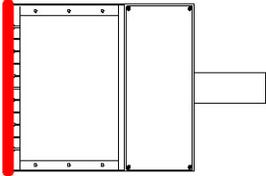
RARx HSS-270-BSS-xx



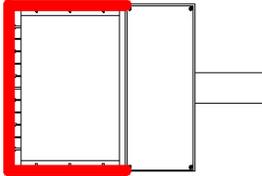
RARx HSS-360-xx



RARx HSS-90-F-xx

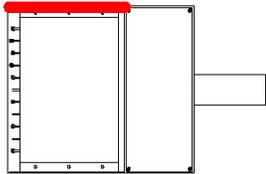


RARx HSS-270-FSS-xx

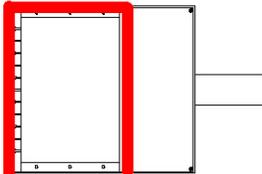


**Note:** Not to be used with Occupancy Sensors as the shield may block the light to the sensor

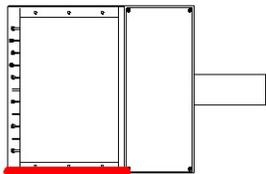
RARx HSS-90-S-xx



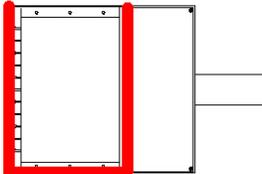
RARx HSS-270-FSB-xx



RARx HSS-90-S-xx



RARx HSS-270-FSB-xx



# RATIO Series

AREA/SITE LIGHTER

## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



## CONTROL TECHNOLOGY



## SERVICE PROGRAMS

STOCK QS10

## SPECIFICATIONS

### CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

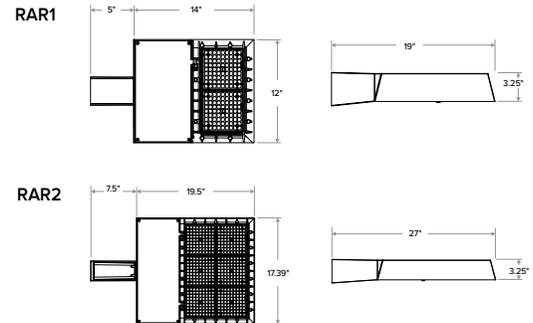
### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

## MICROSTRIKE | STRIKE OPTICS



	Weight	EPA at 0°
RAR1	13.5 lbs / 61 kg	.45ft. <sup>2</sup> / .13m <sup>2</sup>
RAR2	24 lbs / 10.9 kg	.55ft. <sup>2</sup> / .17m <sup>2</sup>

### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to [www.designlights.org](http://www.designlights.org) for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

### WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

 Gray Shading = Service Program  
 Limit of 15 luminaires


## MICRO STRIKE OPTICS - ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXW-BC

CATALOG # \_\_\_\_\_

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Micro Strike	<b>80L-25</b> 25W - 3,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>2</b> IES TYPE II	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>80L-39</b> 39W - 5,200 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>3</b> IES TYPE III	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>80L-50</b> 50W - 6,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>4W</b> IES TYPE IV	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>160L-70</b> 70W - 9,000 Lumens		<b>4F</b> IES TYPE IV Forward		<b>240</b> 240V
	<b>160L-100</b> 100W - 12,000 Lumens		<b>5QW</b> IES TYPE V		<b>277</b> 277V
	<b>160L-115</b> 115W - 15,000 Lumens				<b>347</b> 347V
	<b>160L-135</b> 135W - 18,000 Lumens				<b>480</b> 480V
<b>RAR2</b> Ratio Area Size 2 - Micro Strike	<b>320L-110</b> 110W - 15,000 Lumens				
	<b>320L-140</b> 140W - 18,000 Lumens				
	<b>320L-165</b> 165W - 21,000 Lumens				
	<b>480L-185</b> 185W - 24,000 Lumens				
	<b>480L-210</b> 210W - 27,000 Lumens				
	<b>480L-240</b> 240W - 30,000 Lumens				
	<b>480L-255</b> 255W - 36,000 Lumens				
	<b>480L-295</b> 295W - 42,000 Lumens				
<b>480L-340</b> 340W - 48,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 70 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER STRIKE

## STRIKE OPTIC - ORDERING GUIDE

Example: RAR1-36L-39-3K7-2-UNV-ASQ-BLT-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Strike Optics	<b>36L-39</b> 39W - 5,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>FR</b> Auto Front Row	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>36L-55</b> 55W - 7,000 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>2</b> Type 2	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>36L-85</b> 85W - 10,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>3</b> Type 3	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>36L-105</b> 105W - 12,000 Lumens	<b>3K8</b> 3000K, 80 CRI	<b>4F</b> Type 4 Forward		<b>240</b> 240V
	<b>36L-120</b> 120W - 13,000 Lumens	<b>4K8</b> 4000K, 80 CRI	<b>4W</b> Type 4 Wide		<b>277</b> 277V
	<b>72L-115</b> 115W - 14,000 Lumens	<b>5K8</b> 5000K, 80 CRI	<b>5QN</b> Type 5 Square Narrow		<b>347</b> 347V
	<b>72L-145</b> 145W - 17,000 Lumens		<b>5QW</b> Type 5 Square Wide		<b>480</b> 480V
	<b>72L-180</b> 180W - 20,000 Lumens		<b>5QM</b> Type 5 Square Medium		
	<b>72L-210</b> 210W - 24,000 Lumens		<b>5W</b> Type 5 Wide (Round)		
	<b>72L-240</b> 240W - 26,000 Lumens		<b>5RW</b> Type 5 Rectangular		
<b>RAR2</b> Ratio Area Size 2 - Strike Optics	<b>108L-215</b> 215W - 27,000 Lumens		<b>C</b> Corner Optic		
	<b>108L-250</b> 250W - 30,000 Lumens		<b>TC</b> Tennis Court Optic		
	<b>108L-280</b> 280W - 33,000 Lumens				
	<b>108L-325</b> 325W - 37,000 Lumens				
	<b>108L-365</b> 365W - 40,000 Lumens				

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 50 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

## CONTROLS FUNCTIONALITY



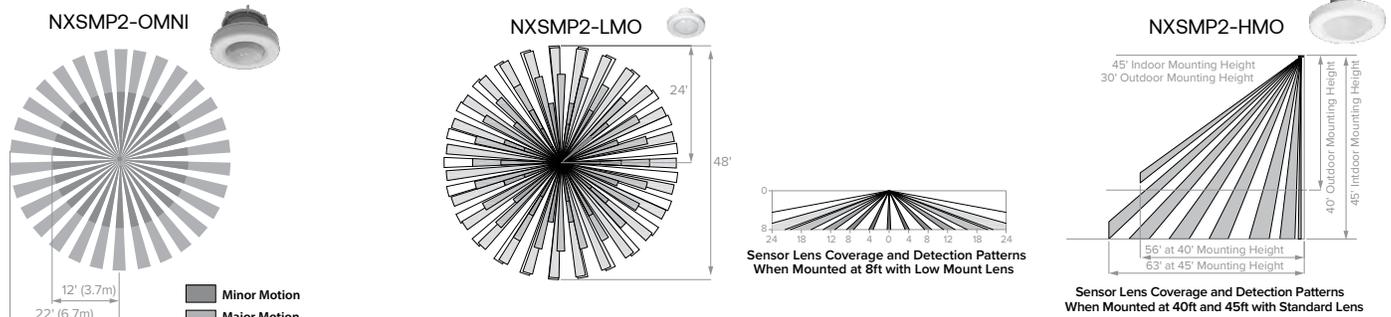
Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components	
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height			
NX Wireless	NXOFM2-1R1D-UNV	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM2-1R1D-UNV
	NXW	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
Independent	BTSO-12F	-	-	-	✓	✓	✓	✓	✓	12ft		BTSPM-OMNI-O
	BTS-14F	-	-	-	✓	✓	✓	✓	✓	14ft		BTSPM-LMO
	BTS-40F	-	-	-	✓	✓	✓	✓	✓	40ft		BTSPM-HMO

## DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	*Passcode Factory Passcode: HubbN3T!	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

## NX WIRELESS COVERAGE PATTERNS



## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US)



Apple App



Google Play

# RATIO Series

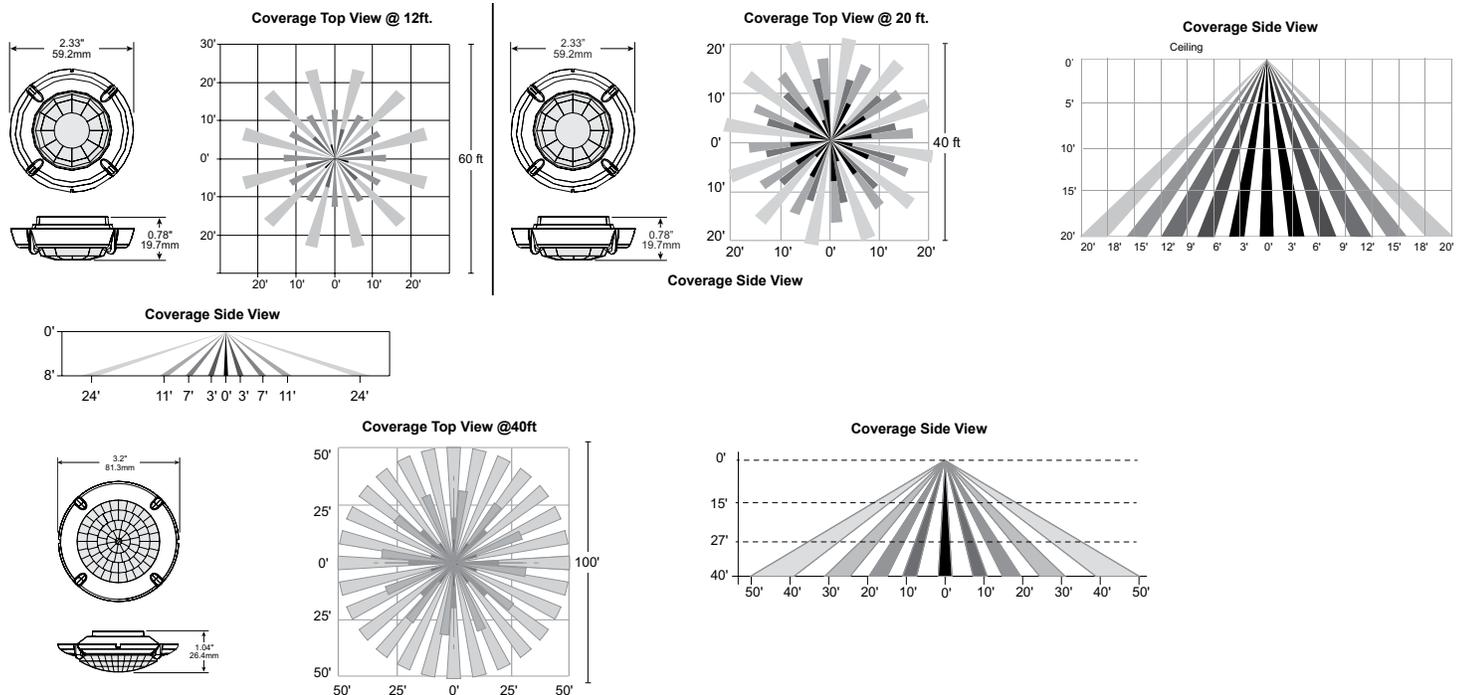
AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

### CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
SCP_F Sensor Control Programmable, sensor range, reference product specification for height selections	-	-	-	✓	✓	✓	✓	-	8ft or 20ft	SCP_F
ADD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD
ADT AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT
7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR
7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 7PR-SC
7PR-TL 7-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	 7PR-TL

### COVERAGE PATTERNS FOR SCP\_F



### PROGRAMMED CONTROLS

#### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

#### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

# RATIO Series

AREA/SITE LIGHTER

## STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

## POLE COMBOS

Catalog Number	Pole	Single or Double Head	Fixture	Lumens	Wattage	Distribution	CCT/CRI	Mounting	Finish
RAR1-100-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
SSSH-20-40-STK	20' Square Straight Steel	Pole Only	Not Included						
SSSH-25-40-STK	25' Square Straight Steel	Pole Only	Not Included						
SSSH-STK-4-KIT		Kit Only	Not Included						

# RATIO Series

AREA/SITE LIGHTER

## CONTROLS

### Control Options

#### Standalone

**SCPREMOTE** Order at least one per project location to program and control

#### Networked – Wireless

**WIR-RME-L** LightGRID+ External Fixture Module<sup>1,2</sup>

#### NX Networked – Wireless

**NXOFM-1R1D-UNV** NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- 1 Works with external networked photosensor
- 2 LightGRID+ Gateway required for system programming

## OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> ACC-O-RAR-ST1-SHLD-BC-36L	Back Light Control for RAR1 Strike 36L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-72L	Back Light Control for RAR2 Strike 72L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-108L	Back Light Control for RAR2 Strike 108L
<input type="checkbox"/> ACC-O-RAR-ST3-SHLD-BC-162L	Back Light Control for RAR3 Strike 162L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-80L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 80L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-160L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 160L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-320L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 320L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-480L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 480L
<input type="checkbox"/> ACC-O-RAR3-SHLD-BC-720L-X <sup>1</sup>	Back Light Control for RAR3 Micro Strike 720L

1 Replace X with distribution type ("2" for Type 2, "3" for Type 3, "4F" for Type 4F, Type "4W" for Type 4W)

## ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface <sup>2</sup>
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles <sup>1,2</sup>
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter <sup>1,2</sup>
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter <sup>2</sup>
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately <sup>2</sup>
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle <sup>2</sup>

1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole

2 Replace "XX" with desired color/paint finish

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

## PERFORMANCE DATA - MICRO STRIKE

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2

RAR2 Performance Data on next page

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - MICROSTRIKE (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	39	39.1	2	5385	138	1	0	1	5369	137	1	0	1	5079	130	1	0	1
			3	5331	136	1	0	2	5315	136	1	0	2	5028	129	1	0	2
			4F	5413	138	1	0	2	5396	137	1	0	2	5105	130	1	0	2
			4W	5341	137	1	0	2	5325	136	1	0	2	5037	129	1	0	2
			5QM	5508	140	2	0	1	5492	140	2	0	1	5195	132	2	0	1
			5QN	5512	140	2	0	0	5495	140	2	0	0	5198	132	2	0	0
			5QW	5118	131	3	0	2	5102	130	3	0	2	4827	123	3	0	2
			5RW	5390	138	3	0	3	5374	137	3	0	3	5084	130	3	0	3
			5W	5350	137	3	0	1	5334	136	3	0	1	5046	129	3	0	1
			C	5002	120	1	0	2	5002	120	1	0	2	5002	128	1	0	2
			FR	5547	141	1	0	1	5530	141	1	0	1	5231	133	1	0	1
			TC	5498	140	1	0	1	5481	140	1	0	1	5185	132	1	0	1
	55	56.8	2	7350	129	1	0	2	7329	129	1	0	2	6933	122	1	0	2
			3	7276	128	1	0	2	7255	128	1	0	2	6863	121	1	0	2
			4F	7388	130	1	0	2	7366	130	1	0	2	6968	123	1	0	2
			4W	7290	128	1	0	3	7269	128	1	0	3	6876	121	1	0	2
			5QM	7519	132	3	0	1	7496	132	3	0	1	7092	125	3	0	1
			5QN	7523	132	3	0	0	7501	132	3	0	0	7096	125	3	0	0
			5QW	6986	123	3	0	2	6965	123	3	0	2	6589	116	3	0	2
			5RW	7358	130	3	0	3	7336	129	3	0	3	6940	122	3	0	3
			5W	7303	129	3	0	2	7281	128	3	0	2	6888	121	3	0	2
			C	6828	113	1	0	2	6828	113	1	0	2	6828	120	1	0	2
			FR	7571	133	1	0	1	7548	133	1	0	1	7141	126	1	0	1
			TC	7504	132	1	0	1	7482	132	1	0	1	7078	125	1	0	1
	85	83.6	2	10081	121	2	0	2	10051	120	2	0	2	9508	114	2	0	2
			3	9979	119	2	0	2	9949	119	2	0	2	9412	113	1	0	2
			4F	10132	121	1	0	2	10102	121	1	0	2	9557	114	1	0	2
			4W	9998	120	1	0	3	9968	119	1	0	3	9430	113	1	0	3
			5QM	10312	123	3	0	1	10281	123	3	0	1	9726	116	3	0	1
			5QN	10318	123	3	0	0	10287	123	3	0	0	9732	116	3	0	0
			5QW	9580	115	4	0	3	9552	114	4	0	3	9036	108	4	0	3
			5RW	10090	121	4	0	4	10060	120	4	0	4	9517	114	3	0	3
			5W	10016	120	4	0	2	9986	119	4	0	2	9447	113	3	0	2
C			9364	105	2	0	2	9364	105	2	0	2	9364	112	2	0	2	
FR			10383	124	1	0	1	10352	124	1	0	1	9793	117	1	0	1	
TC			10291	123	1	0	1	10261	123	1	0	1	9707	116	1	0	1	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	105	108.2	2	12321	114	2	0	2	12284	114	2	0	2	11621	107	2	0	2
			3	12197	113	2	0	3	12160	112	2	0	3	11504	106	2	0	3
			4F	12384	114	1	0	3	12347	114	1	0	3	11680	108	1	0	2
			4W	12220	113	2	0	3	12183	113	2	0	3	11526	107	1	0	3
			5QM	12603	116	3	0	2	12565	116	3	0	2	11887	110	3	0	2
			5QN	12611	117	3	0	0	12573	116	3	0	0	11894	110	3	0	0
			5QW	11709	108	4	0	3	11674	108	4	0	3	11044	102	4	0	3
			5RW	12333	114	4	0	4	12296	114	4	0	4	11632	108	4	0	4
			5W	12241	113	4	0	2	12205	113	4	0	2	11546	107	4	0	2
			C	11445	99	2	0	2	11445	99	2	0	2	11445	106	2	0	2
			FR	12690	117	1	0	1	12653	117	1	0	1	11969	111	1	0	1
	TC	12578	116	1	0	2	12541	116	1	0	2	11864	110	1	0	2		
	120	120.9	2	13398	111	2	0	2	13358	110	2	0	2	12636	105	2	0	2
			3	13263	110	2	0	3	13223	109	2	0	3	12509	103	2	0	3
			4F	13467	111	1	0	3	13426	111	1	0	3	12701	105	1	0	3
			4W	13288	110	2	0	3	13248	110	2	0	3	12533	104	2	0	3
			5QM	13705	113	3	0	2	13664	113	3	0	2	12926	107	3	0	2
			5QN	13713	113	4	0	0	13672	113	4	0	0	12934	107	3	0	0
			5QW	12733	105	4	0	3	12695	105	4	0	3	12009	99	4	0	3
			5RW	13411	111	4	0	4	13371	111	4	0	4	12649	105	4	0	4
			5W	13312	110	4	0	2	13272	110	4	0	2	12555	104	4	0	2
			C	12446	96	2	0	2	12446	96	2	0	2	12446	103	2	0	2
FR			13800	114	1	0	1	13758	114	1	0	1	13016	108	1	0	1	
TC	13678	113	1	0	2	13637	113	1	0	2	12901	107	1	0	2			

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	115	112.1	2	14701	131	2	0	2	14657	131	2	0	2	13866	124	2	0	2
			3	14553	130	2	0	3	14509	129	2	0	3	13726	122	2	0	3
			4F	14776	132	1	0	3	14732	131	1	0	3	13937	124	1	0	3
			4W	14581	130	2	0	3	14537	130	2	0	3	13752	123	2	0	3
			5QM	15038	134	3	0	2	14993	134	3	0	2	14183	127	3	0	2
			5QN	15047	134	4	0	0	15002	134	4	0	0	14192	127	4	0	0
			5QW	13971	125	4	0	3	13929	124	4	0	3	13177	118	4	0	3
			5RW	14715	131	4	0	4	14671	131	4	0	4	13879	124	4	0	4
			5W	14606	130	4	0	2	14563	130	4	0	2	13776	123	4	0	2
			C	14571	130	2	0	3	14571	130	2	0	3	13656	122	2	0	3
			FR	15142	135	2	0	1	15097	135	2	0	1	14282	127	1	0	1
			TC	15008	134	2	0	2	14963	133	2	0	2	14155	126	1	0	2
	145	141.2	2	17797	126	3	0	3	17744	126	3	0	3	16786	119	3	0	3
			3	17618	125	2	0	3	17565	124	2	0	3	16617	118	2	0	3
			4F	17889	127	2	0	3	17835	126	2	0	3	16872	119	2	0	3
			4W	17652	125	2	0	4	17599	125	2	0	4	16649	118	2	0	4
			5QM	18205	129	4	0	2	18151	129	4	0	2	17170	122	4	0	2
			5QN	18216	129	4	0	0	18162	129	4	0	0	17181	122	4	0	0
			5QW	16914	120	4	0	3	16863	119	4	0	3	15953	113	4	0	3
			5RW	17815	126	4	0	4	17761	126	4	0	4	16802	119	4	0	4
			5W	17683	125	4	0	2	17630	125	4	0	2	16678	118	4	0	2
			C	17640	125	3	0	3	17640	125	3	0	3	16532	117	3	0	3
			FR	18331	130	2	0	2	18276	129	2	0	2	17290	122	2	0	2
			TC	18169	129	2	0	2	18115	128	2	0	2	17137	121	2	0	2
	180	177.0	2	21314	120	3	0	3	21250	120	3	0	3	20102	114	3	0	3
			3	21099	119	3	0	4	21036	119	3	0	4	19900	112	3	0	4
			4F	21423	121	2	0	4	21359	121	2	0	4	20206	114	2	0	4
			4W	21139	119	2	0	4	21076	119	2	0	4	19938	113	2	0	4
			5QM	21802	123	4	0	2	21737	123	4	0	2	20563	116	4	0	2
			5QN	21815	123	4	0	0	21750	123	4	0	0	20575	116	4	0	0
			5QW	20256	114	5	0	4	20195	114	5	0	4	19104	108	5	0	3
			5RW	21334	121	5	0	5	21271	120	5	0	5	20122	114	5	0	5
			5W	21176	120	5	0	3	21113	119	5	0	3	19973	113	5	0	3
			C	21125	119	3	0	4	21125	119	3	0	4	19799	112	3	0	4
			FR	21953	124	2	0	2	21888	124	2	0	2	20706	117	2	0	2
			TC	21759	123	2	0	2	21694	123	2	0	2	20523	116	2	0	2

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	210	217.3	2	24102	111	3	0	3	24030	111	3	0	3	22732	105	3	0	3
			3	23859	110	3	0	4	23788	109	3	0	4	22503	104	3	0	4
			4F	24226	111	2	0	4	24153	111	2	0	4	22849	105	2	0	4
			4W	23905	110	3	0	5	23833	110	3	0	5	22546	104	2	0	4
			5QM	24654	113	4	0	2	24581	113	4	0	2	23253	107	4	0	2
			5QN	24669	114	5	0	1	24595	113	5	0	1	23267	107	5	0	0
			5QW	22905	105	5	0	4	22837	105	5	0	4	21604	99	5	0	4
			5RW	24126	111	5	0	5	24053	111	5	0	5	22754	105	5	0	5
			5W	23947	110	5	0	3	23875	110	5	0	3	22586	104	5	0	3
			C	23889	110	3	0	4	23889	110	3	0	4	22389	103	3	0	4
			FR	24825	114	2	0	2	24751	114	2	0	2	23414	108	2	0	2
			TC	24606	113	2	0	2	24532	113	2	0	2	23207	107	2	0	2
	240	238.6	2	26781	112	3	0	4	26701	112	3	0	4	25259	106	3	0	3
			3	26511	111	3	0	4	26432	111	3	0	4	25005	105	3	0	4
			4F	26918	113	2	0	4	26838	112	2	0	4	25389	106	2	0	4
			4W	26562	111	3	0	5	26483	111	3	0	5	25053	105	3	0	5
			5QM	27395	115	4	0	2	27313	114	4	0	2	25838	108	4	0	2
			5QN	27411	115	5	0	1	27329	115	5	0	1	25853	108	5	0	1
			5QW	25451	107	5	0	4	25375	106	5	0	4	24005	101	5	0	4
			5RW	26807	112	5	0	5	26727	112	5	0	5	25284	106	5	0	5
			5W	26609	112	5	0	3	26529	111	5	0	3	25097	105	5	0	3
			C	26544	111	3	0	4	26544	111	3	0	4	24878	104	3	0	4
			FR	27585	116	2	0	2	27502	115	2	0	2	26017	109	2	0	2
			TC	27341	115	2	0	2	27259	114	2	0	2	25787	108	2	0	2
	215	215.0	2	26697	124	3	0	4	26617	124	3	0	4	25180	117	3	0	3
			3	26428	123	3	0	4	26349	123	3	0	4	24926	116	3	0	4
			4F	26834	125	2	0	4	26754	124	2	0	4	25309	118	2	0	4
			4W	26479	123	3	0	5	26400	123	3	0	5	24974	116	3	0	5
			5QM	27309	127	4	0	2	27227	127	4	0	2	25757	120	4	0	2
			5QN	27325	127	5	0	1	27243	127	5	0	1	25772	120	5	0	1
			5QW	25372	118	5	0	4	25296	118	5	0	4	23930	111	5	0	4
			5RW	26723	124	5	0	5	26643	124	5	0	5	25204	117	5	0	5
			5W	26525	123	5	0	3	26446	123	5	0	3	25018	116	5	0	3
C			26461	123	3	0	4	26461	123	3	0	4	24799	115	3	0	4	
FR			27498	128	2	0	2	27416	128	2	0	2	25935	121	2	0	2	
TC			27255	127	2	0	2	27174	126	2	0	2	25706	120	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	250	247.5	2	30249	122	3	0	4	30159	122	3	0	4	28530	115	3	0	4
			3	29944	121	3	0	4	29855	121	3	0	4	28243	114	3	0	4
			4F	30404	123	2	0	5	30313	122	2	0	5	28676	116	2	0	5
			4W	30002	121	3	0	5	29912	121	3	0	5	28297	114	3	0	5
			5QM	30942	125	5	0	3	30849	125	5	0	3	29184	118	5	0	2
			5QN	30961	125	5	0	1	30868	125	5	0	1	29201	118	5	0	1
			5QW	28747	116	5	0	4	28661	116	5	0	4	27113	110	5	0	4
			5RW	30278	122	5	0	5	30188	122	5	0	5	28558	115	5	0	5
			5W	30054	121	5	0	4	29964	121	5	0	4	28346	115	5	0	3
			C	29982	121	3	0	4	29982	121	3	0	4	28099	114	3	0	4
			FR	31157	126	2	0	2	31063	126	2	0	2	29386	119	2	0	2
			TC	30881	125	3	0	3	30789	124	3	0	3	29126	118	3	0	2
	280	274.6	2	32729	119	3	0	4	32631	119	3	0	4	30869	112	3	0	4
			3	32400	118	3	0	5	32303	118	3	0	5	30558	111	3	0	5
			4F	32897	120	2	0	5	32799	119	2	0	5	31028	113	2	0	5
			4W	32462	118	3	0	5	32365	118	3	0	5	30617	112	3	0	5
			5QM	33479	122	5	0	3	33379	122	5	0	3	31577	115	5	0	3
			5QN	33499	122	5	0	1	33399	122	5	0	1	31596	115	5	0	1
			5QW	31104	113	5	0	5	31011	113	5	0	5	29337	107	5	0	4
			5RW	32761	119	5	0	5	32663	119	5	0	5	30899	113	5	0	5
			5W	32519	118	5	0	4	32421	118	5	0	4	30671	112	5	0	4
			C	32440	118	3	0	5	32440	118	3	0	5	30403	111	3	0	5
			FR	33711	123	2	0	2	33610	122	2	0	2	31795	116	2	0	2
			TC	33413	122	3	0	3	33313	121	3	0	3	31515	115	3	0	3
	325	325.0	2	36969	114	3	0	4	36858	113	3	0	4	34868	107	3	0	4
			3	36597	113	3	0	5	36487	112	3	0	5	34517	106	3	0	5
			4F	37159	114	3	0	5	37047	114	3	0	5	35047	108	3	0	5
			4W	36667	113	3	0	5	36557	112	3	0	5	34583	106	3	0	5
			5QM	37816	116	5	0	3	37703	116	5	0	3	35667	110	5	0	3
			5QN	37839	116	5	0	1	37726	116	5	0	1	35688	110	5	0	1
			5QW	35133	108	5	0	5	35028	108	5	0	5	33137	102	5	0	5
			5RW	37005	114	5	0	5	36894	114	5	0	5	34902	107	5	0	5
			5W	36731	113	5	0	4	36621	113	5	0	4	34643	107	5	0	4
C			36642	113	3	0	5	36642	113	3	0	5	34341	106	3	0	5	
FR			38078	117	3	0	2	37964	117	3	0	2	35914	111	3	0	2	
TC			37742	116	3	0	3	37629	116	3	0	3	35597	110	3	0	3	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	365	357.7	2	40171	112	3	0	4	40051	112	3	0	4	37888	106	3	0	4
			3	39767	111	3	0	5	39648	111	3	0	5	37507	105	3	0	5
			4F	40377	113	3	0	5	40257	113	3	0	5	38083	106	3	0	5
			4W	39843	111	3	0	5	39724	111	3	0	5	37579	105	3	0	5
			5QM	41092	115	5	0	3	40969	115	5	0	3	38756	108	5	0	3
			5QN	41117	115	5	0	1	40994	115	5	0	1	38780	108	5	0	1
			5QW	38177	107	5	0	5	38063	106	5	0	5	36007	101	5	0	5
			5RW	40210	112	5	0	5	40090	112	5	0	5	37925	106	5	0	5
			5W	39913	112	5	0	4	39793	111	5	0	4	37644	105	5	0	4
			C	39816	111	3	0	5	39816	111	3	0	5	37316	104	3	0	5
			FR	41377	116	3	0	2	41253	115	3	0	2	39025	109	3	0	2
			TC	41011	115	3	0	3	40888	114	3	0	3	38680	108	3	0	3

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - MICROSTRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
		480	0.61	
	340	120	2.89	347.1
		208	1.67	
		240	1.45	
277		1.25		
347		1.00		
		480	0.72	

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - STRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36	39	120	0.326	39.1
		208	0.188	
		240	0.163	
		277	0.141	
		347	0.113	
		480	0.081	
	55	120	0.473	56.8
		208	0.273	
		240	0.237	
		277	0.205	
		347	0.164	
		480	0.118	
	85	120	0.697	83.6
		208	0.402	
		240	0.348	
		277	0.302	
		347	0.241	
		480	0.174	
	105	120	0.902	108.2
		208	0.520	
		240	0.451	
		277	0.391	
		347	0.312	
		480	0.225	
120	120	1.008	120.9	
	208	0.581		
	240	0.504		
	277	0.436		
	347	0.348		
	480	0.252		

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
72L	115	120	0.934	112.1
		208	0.539	
		240	0.467	
		277	0.405	
		347	0.323	
		480	0.234	
	145	120	1.177	141.2
		208	0.679	
		240	0.588	
		277	0.510	
		347	0.407	
		480	0.294	
	180	120	1.475	177.0
		208	0.851	
		240	0.738	
		277	0.639	
		347	0.510	
		480	0.369	
	210	120	1.811	217.3
		208	1.045	
		240	0.905	
		277	0.784	
		347	0.626	
		480	0.453	
240	120	1.988	238.6	
	208	1.147		
	240	0.994		
	277	0.861		
	347	0.688		
	480	0.497		
108L	215	120	1.792	215.0
		208	1.034	
		240	0.896	
		277	0.776	
		347	0.620	
		480	0.448	
	250	120	2.063	247.5
		208	1.190	
		240	1.031	
		277	0.894	
		347	0.713	
		480	0.516	
	280	120	2.288	274.6
		208	1.320	
		240	1.144	
		277	0.991	
		347	0.791	
		480	0.572	
	325	120	2.708	325.0
		208	1.563	
		240	1.354	
		277	1.173	
		347	0.937	
		480	0.677	
365	120	2.981	357.7	
	208	1.720		
	240	1.490		
	277	1.291		
	347	1.031		
	480	0.745		

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-
3000K	0.977	0.861	0.647
3500K	-	0.900	-
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

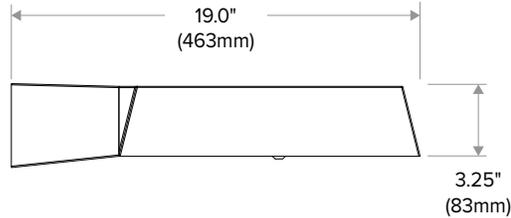
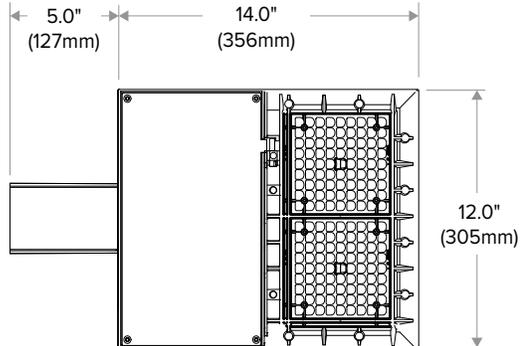
Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	<a href="#">See Amber Spec Sheet</a>		

# RATIO Series

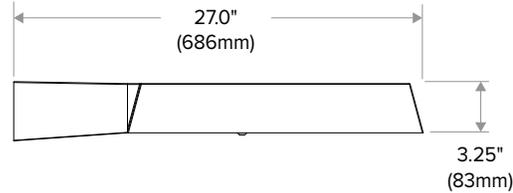
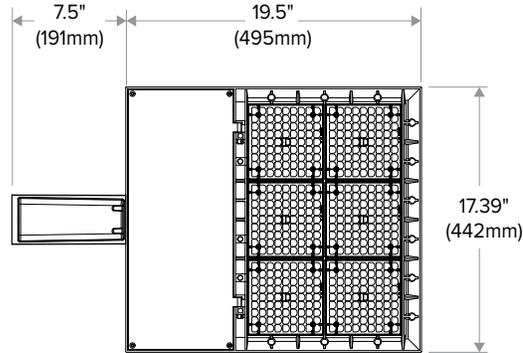
AREA/SITE LIGHTER

## DIMENSIONS

RAR1

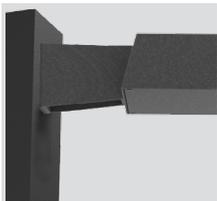


RAR2



## ADDITIONAL INFORMATION

### MOUNTING



**Arm Mount – ASQ:** Fixture ships with integral arm for ease of installation.



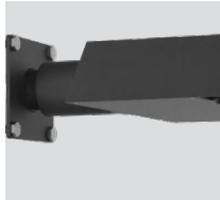
**Knuckle –** Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



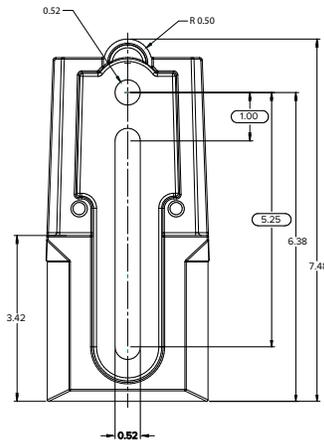
**Universal Mounting –** Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and S2 and B3 drill patterns



**MAF –** Fits 2-3/8" OD arms Roadway applications.



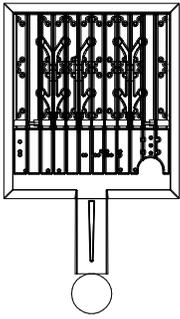
**Wall Mount –** Wall mount bracket designed for building mount applications.



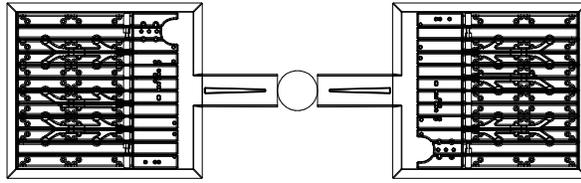
# RATIO Series

AREA/SITE LIGHTER

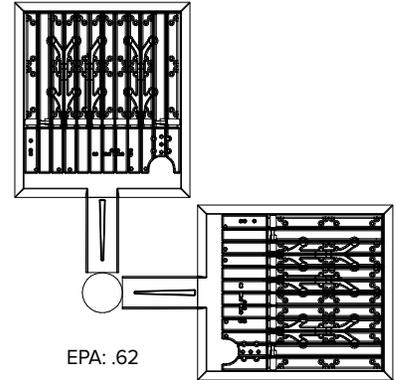
## EPA (RAR1)



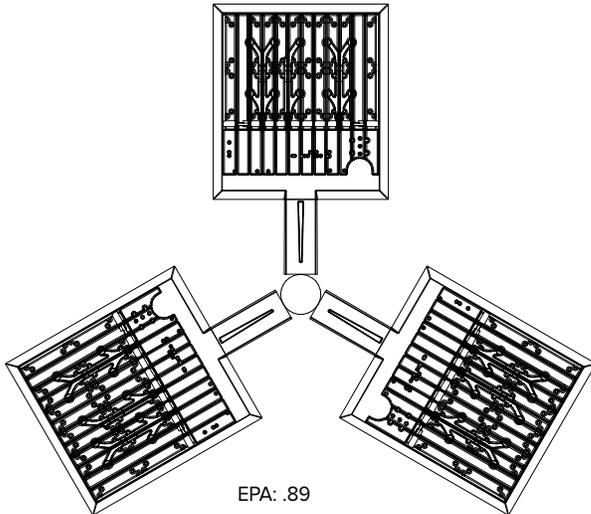
EPA Knuckle Mount 0 degrees: .43  
 EPA Knuckle Mount 30 degrees: .55  
 EPA Arm Mount: 0 degrees .45



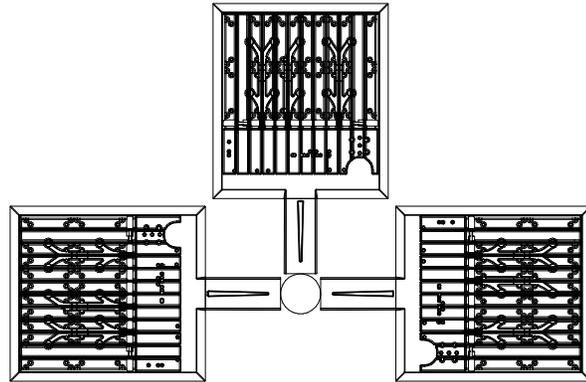
EPA: .99



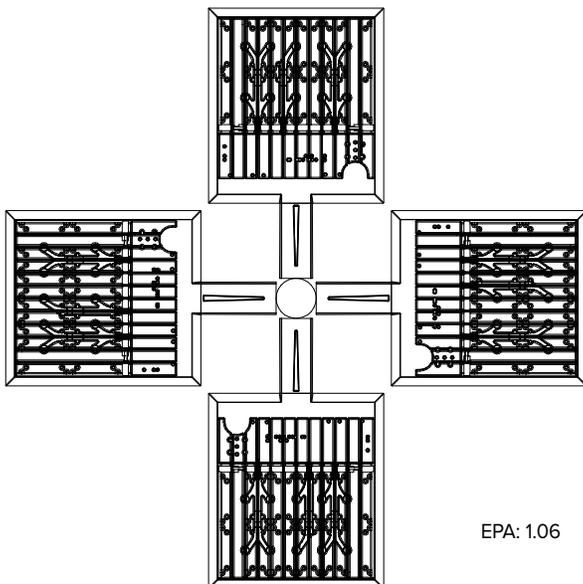
EPA: .62



EPA: .89



EPA: .99

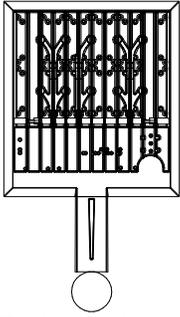


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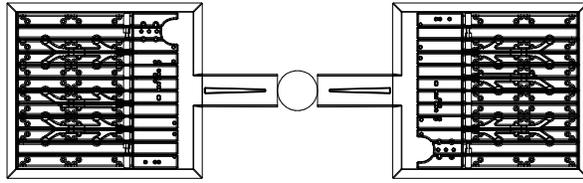
# RATIO Series

AREA/SITE LIGHTER

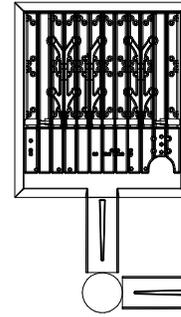
## EPA (RAR2)



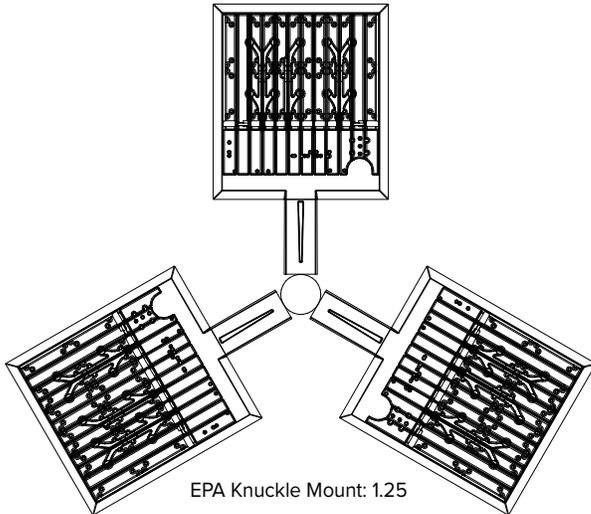
EPA Knuckle Mount: .52  
EPA Arm Mount: .55



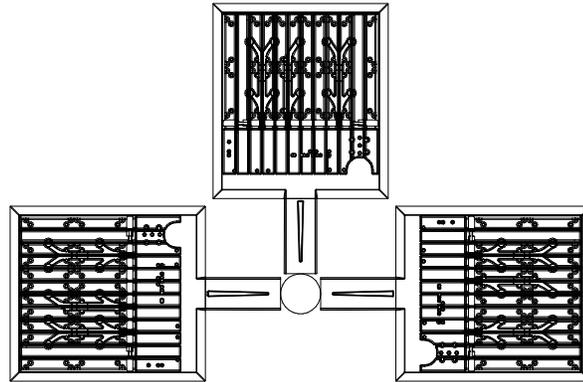
EPA: 1.486



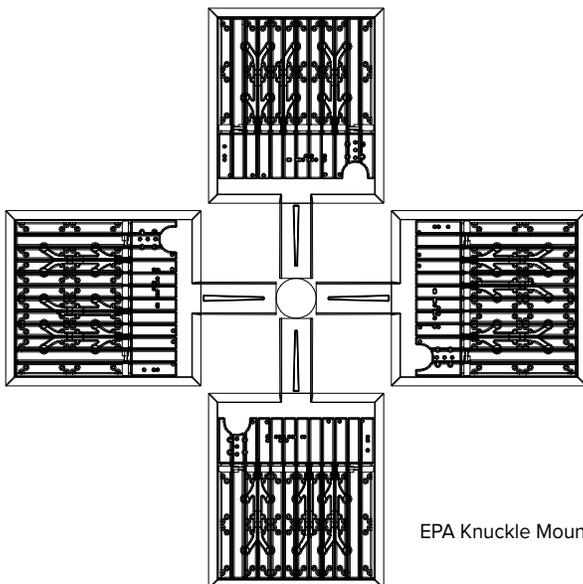
EPA Knuckle Mount: .87



EPA Knuckle Mount: 1.25



EPA Knuckle Mount: 1.41



EPA Knuckle Mount: 1.56

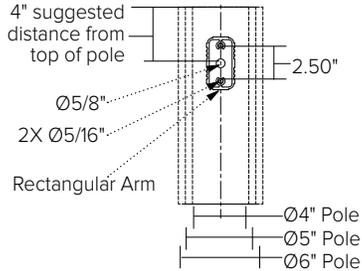
# RATIO Series

AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

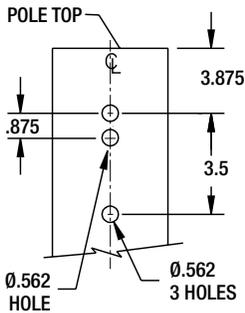
### ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



### UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

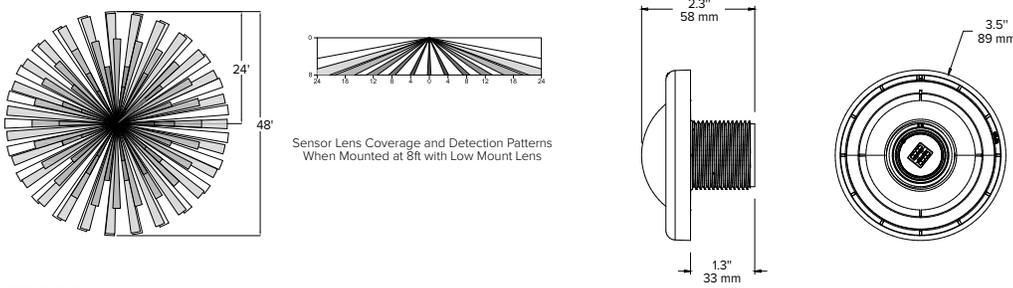
ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

# RATIO Series

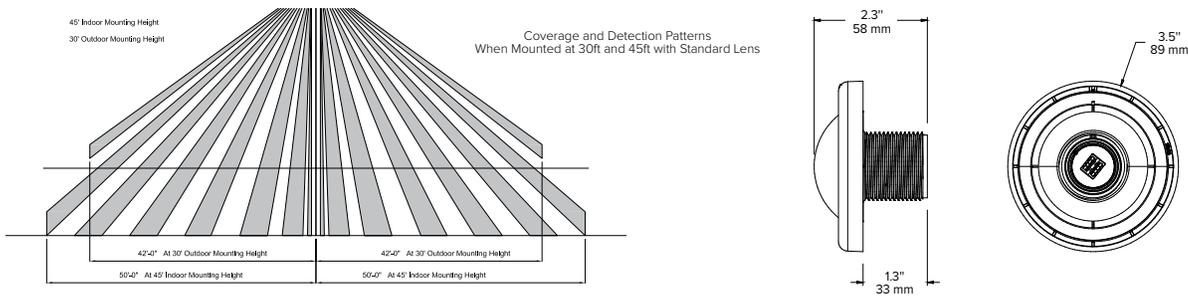
AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

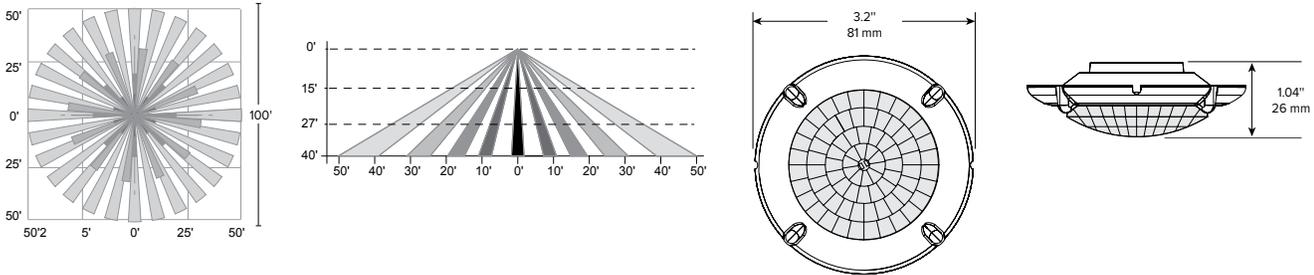
### NXSP-14F



### NXSP-30F



### SCP-40F



### RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. <sup>2</sup> .13m <sup>2</sup>	.56ft. <sup>2</sup> .17m <sup>2</sup>

### RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. <sup>2</sup> .17m <sup>2</sup>	1.48ft. <sup>2</sup> .45m <sup>2</sup>

### SHIPPING

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

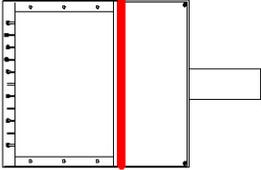
# RATIO Series

AREA/SITE LIGHTER

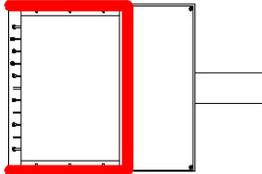
## ADDITIONAL INFORMATION (CONT'D)

### RATIO HOUSE SIDE SHIELD

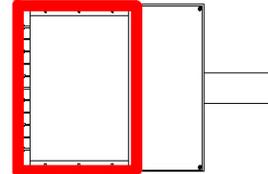
RARx HSS-90-B-xx



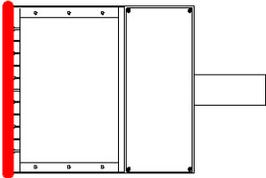
RARx HSS-270-BSS-xx



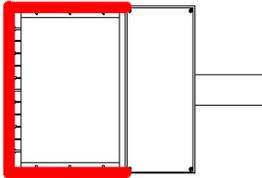
RARx HSS-360-xx



RARx HSS-90-F-xx

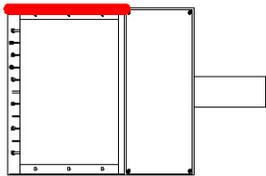


RARx HSS-270-FSS-xx

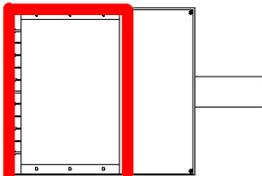


**Note:** Not to be used with Occupancy Sensors as the shield may block the light to the sensor

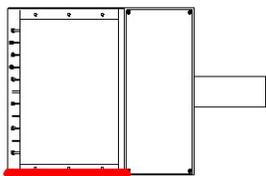
RARx HSS-90-S-xx



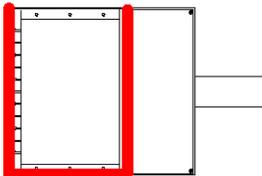
RARx HSS-270-FSB-xx



RARx HSS-90-S-xx



RARx HSS-270-FSB-xx



# RATIO Series

AREA/SITE LIGHTER

## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

## SERVICE PROGRAMS

STOCK QS10

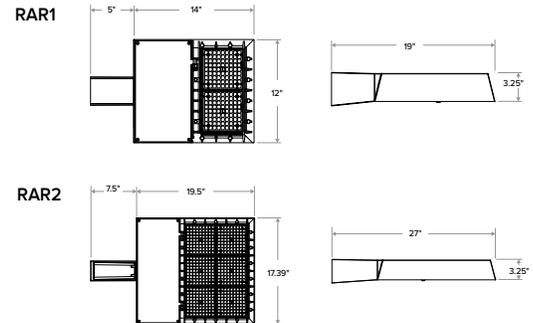
### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

## MICROSTRIKE | STRIKE OPTICS



	Weight	EPA at 0°
RAR1	13.5 lbs / 61 kg	.45ft. <sup>2</sup> / .13m <sup>2</sup>
RAR2	24 lbs / 10.9 kg	.55ft. <sup>2</sup> / .17m <sup>2</sup>

### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to [www.designlights.org](http://www.designlights.org) for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

### WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

 Gray Shading = Service Program  
 Limit of 15 luminaires


## MICRO STRIKE OPTICS - ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXW-BC

CATALOG # \_\_\_\_\_

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Micro Strike	<b>80L-25</b> 25W - 3,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>2</b> IES TYPE II	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>80L-39</b> 39W - 5,200 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>3</b> IES TYPE III	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>80L-50</b> 50W - 6,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>4W</b> IES TYPE IV	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>160L-70</b> 70W - 9,000 Lumens		<b>4F</b> IES TYPE IV Forward		<b>240</b> 240V
	<b>160L-100</b> 100W - 12,000 Lumens		<b>5QW</b> IES TYPE V		<b>277</b> 277V
	<b>160L-115</b> 115W - 15,000 Lumens				<b>347</b> 347V
	<b>160L-135</b> 135W - 18,000 Lumens				<b>480</b> 480V
<b>RAR2</b> Ratio Area Size 2 - Micro Strike	<b>320L-110</b> 110W - 15,000 Lumens				
	<b>320L-140</b> 140W - 18,000 Lumens				
	<b>320L-165</b> 165W - 21,000 Lumens				
	<b>480L-185</b> 185W - 24,000 Lumens				
	<b>480L-210</b> 210W - 27,000 Lumens				
	<b>480L-240</b> 240W - 30,000 Lumens				
	<b>480L-255</b> 255W - 36,000 Lumens				
	<b>480L-295</b> 295W - 42,000 Lumens				
<b>480L-340</b> 340W - 48,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 70 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER STRIKE

## STRIKE OPTIC - ORDERING GUIDE

Example: RAR1-36L-39-3K7-2-UNV-ASQ-BLT-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Strike Optics	<b>36L-39</b> 39W - 5,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>FR</b> Auto Front Row	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>36L-55</b> 55W - 7,000 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>2</b> Type 2	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>36L-85</b> 85W - 10,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>3</b> Type 3	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>36L-105</b> 105W - 12,000 Lumens	<b>3K8</b> 3000K, 80 CRI	<b>4F</b> Type 4 Forward		<b>240</b> 240V
	<b>36L-120</b> 120W - 13,000 Lumens	<b>4K8</b> 4000K, 80 CRI	<b>4W</b> Type 4 Wide		<b>277</b> 277V
	<b>72L-115</b> 115W - 14,000 Lumens	<b>5K8</b> 5000K, 80 CRI	<b>5QN</b> Type 5 Square Narrow		<b>347</b> 347V
	<b>72L-145</b> 145W - 17,000 Lumens		<b>5QW</b> Type 5 Square Wide		<b>480</b> 480V
	<b>72L-180</b> 180W - 20,000 Lumens		<b>5QM</b> Type 5 Square Medium		
	<b>72L-210</b> 210W - 24,000 Lumens		<b>5W</b> Type 5 Wide (Round)		
	<b>72L-240</b> 240W - 26,000 Lumens		<b>5RW</b> Type 5 Rectangular		
<b>RAR2</b> Ratio Area Size 2 - Strike Optics	<b>108L-215</b> 215W - 27,000 Lumens		<b>C</b> Corner Optic		
	<b>108L-250</b> 250W - 30,000 Lumens		<b>TC</b> Tennis Court Optic		
	<b>108L-280</b> 280W - 33,000 Lumens				
	<b>108L-325</b> 325W - 37,000 Lumens				
	<b>108L-365</b> 365W - 40,000 Lumens				

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 50 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

## CONTROLS FUNCTIONALITY



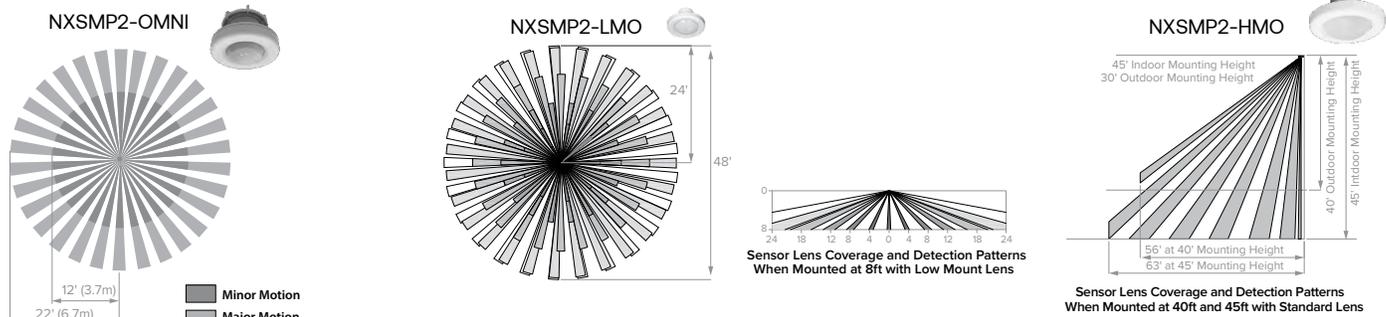
Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components	
	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height			
NX Wireless	NXOFM2-1R1D-UNV	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM2-1R1D-UNV
	NXW	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
Independent	BTSO-12F	-	-	-	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
	BTS-14F	-	-	-	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
	BTS-40F	-	-	-	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

## DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	*Passcode Factory Passcode: HubbN3T!	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

## NX WIRELESS COVERAGE PATTERNS



## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US)



Apple App



Google Play

# RATIO Series

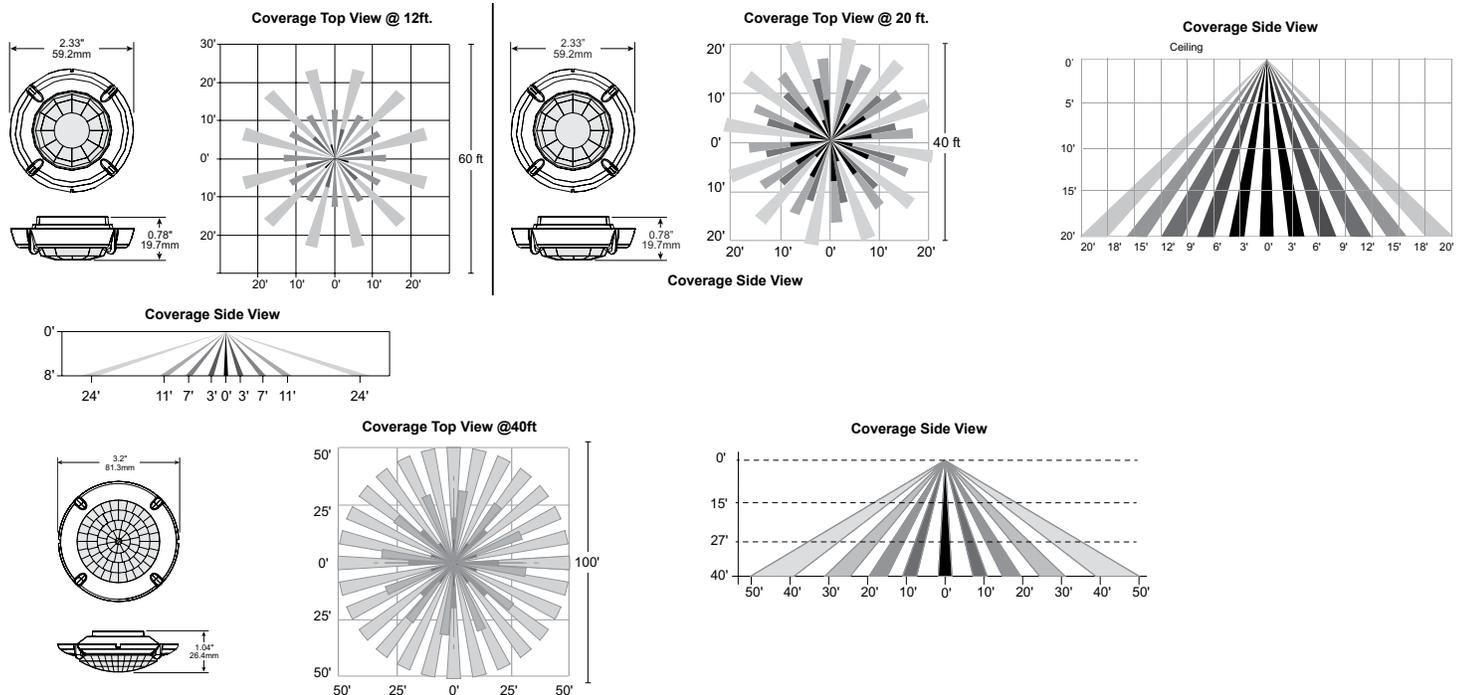
AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

### CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
SCP_F Sensor Control Programmable, sensor range, reference product specification for height selections	-	-	-	✓	✓	✓	✓	-	8ft or 20ft	SCP_F
ADD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD
ADT AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT
7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR
7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 7PR-SC
7PR-TL 7-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	 7PR-TL

### COVERAGE PATTERNS FOR SCP\_F



### PROGRAMMED CONTROLS

#### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

#### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

# RATIO Series

AREA/SITE LIGHTER

## STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

## POLE COMBOS

Catalog Number	Pole	Single or Double Head	Fixture	Lumens	Wattage	Distribution	CCT/CRI	Mounting	Finish
RAR1-100-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
SSSH-20-40-STK	20' Square Straight Steel	Pole Only	Not Included						
SSSH-25-40-STK	25' Square Straight Steel	Pole Only	Not Included						
SSSH-STK-4-KIT		Kit Only	Not Included						

# RATIO Series

AREA/SITE LIGHTER

## CONTROLS

### Control Options

#### Standalone

**SCPREMOTE** Order at least one per project location to program and control

#### Networked – Wireless

**WIR-RME-L** LightGRID+ External Fixture Module<sup>1,2</sup>

#### NX Networked – Wireless

**NXOFM-1R1D-UNV** NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- 1 Works with external networked photosensor
- 2 LightGRID+ Gateway required for system programming

## OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> ACC-O-RAR-ST1-SHLD-BC-36L	Back Light Control for RAR1 Strike 36L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-72L	Back Light Control for RAR2 Strike 72L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-108L	Back Light Control for RAR2 Strike 108L
<input type="checkbox"/> ACC-O-RAR-ST3-SHLD-BC-162L	Back Light Control for RAR3 Strike 162L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-80L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 80L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-160L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 160L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-320L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 320L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-480L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 480L
<input type="checkbox"/> ACC-O-RAR3-SHLD-BC-720L-X <sup>1</sup>	Back Light Control for RAR3 Micro Strike 720L

1 Replace X with distribution type ("2" for Type 2, "3" for Type 3, "4F" for Type 4F, Type "4W" for Type 4W)

## ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface <sup>2</sup>
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles <sup>1,2</sup>
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter <sup>1,2</sup>
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter <sup>2</sup>
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately <sup>2</sup>
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle <sup>2</sup>

1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole

2 Replace "XX" with desired color/paint finish

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

## PERFORMANCE DATA - MICRO STRIKE

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2

RAR2 Performance Data on next page

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - MICROSTRIKE (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	39	39.1	2	5385	138	1	0	1	5369	137	1	0	1	5079	130	1	0	1
			3	5331	136	1	0	2	5315	136	1	0	2	5028	129	1	0	2
			4F	5413	138	1	0	2	5396	137	1	0	2	5105	130	1	0	2
			4W	5341	137	1	0	2	5325	136	1	0	2	5037	129	1	0	2
			5QM	5508	140	2	0	1	5492	140	2	0	1	5195	132	2	0	1
			5QN	5512	140	2	0	0	5495	140	2	0	0	5198	132	2	0	0
			5QW	5118	131	3	0	2	5102	130	3	0	2	4827	123	3	0	2
			5RW	5390	138	3	0	3	5374	137	3	0	3	5084	130	3	0	3
			5W	5350	137	3	0	1	5334	136	3	0	1	5046	129	3	0	1
			C	5002	120	1	0	2	5002	120	1	0	2	5002	128	1	0	2
			FR	5547	141	1	0	1	5530	141	1	0	1	5231	133	1	0	1
			TC	5498	140	1	0	1	5481	140	1	0	1	5185	132	1	0	1
	55	56.8	2	7350	129	1	0	2	7329	129	1	0	2	6933	122	1	0	2
			3	7276	128	1	0	2	7255	128	1	0	2	6863	121	1	0	2
			4F	7388	130	1	0	2	7366	130	1	0	2	6968	123	1	0	2
			4W	7290	128	1	0	3	7269	128	1	0	3	6876	121	1	0	2
			5QM	7519	132	3	0	1	7496	132	3	0	1	7092	125	3	0	1
			5QN	7523	132	3	0	0	7501	132	3	0	0	7096	125	3	0	0
			5QW	6986	123	3	0	2	6965	123	3	0	2	6589	116	3	0	2
			5RW	7358	130	3	0	3	7336	129	3	0	3	6940	122	3	0	3
			5W	7303	129	3	0	2	7281	128	3	0	2	6888	121	3	0	2
			C	6828	113	1	0	2	6828	113	1	0	2	6828	120	1	0	2
			FR	7571	133	1	0	1	7548	133	1	0	1	7141	126	1	0	1
			TC	7504	132	1	0	1	7482	132	1	0	1	7078	125	1	0	1
	85	83.6	2	10081	121	2	0	2	10051	120	2	0	2	9508	114	2	0	2
			3	9979	119	2	0	2	9949	119	2	0	2	9412	113	1	0	2
			4F	10132	121	1	0	2	10102	121	1	0	2	9557	114	1	0	2
			4W	9998	120	1	0	3	9968	119	1	0	3	9430	113	1	0	3
			5QM	10312	123	3	0	1	10281	123	3	0	1	9726	116	3	0	1
			5QN	10318	123	3	0	0	10287	123	3	0	0	9732	116	3	0	0
			5QW	9580	115	4	0	3	9552	114	4	0	3	9036	108	4	0	3
			5RW	10090	121	4	0	4	10060	120	4	0	4	9517	114	3	0	3
			5W	10016	120	4	0	2	9986	119	4	0	2	9447	113	3	0	2
			C	9364	105	2	0	2	9364	105	2	0	2	9364	112	2	0	2
			FR	10383	124	1	0	1	10352	124	1	0	1	9793	117	1	0	1
			TC	10291	123	1	0	1	10261	123	1	0	1	9707	116	1	0	1

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	105	108.2	2	12321	114	2	0	2	12284	114	2	0	2	11621	107	2	0	2
			3	12197	113	2	0	3	12160	112	2	0	3	11504	106	2	0	3
			4F	12384	114	1	0	3	12347	114	1	0	3	11680	108	1	0	2
			4W	12220	113	2	0	3	12183	113	2	0	3	11526	107	1	0	3
			5QM	12603	116	3	0	2	12565	116	3	0	2	11887	110	3	0	2
			5QN	12611	117	3	0	0	12573	116	3	0	0	11894	110	3	0	0
			5QW	11709	108	4	0	3	11674	108	4	0	3	11044	102	4	0	3
			5RW	12333	114	4	0	4	12296	114	4	0	4	11632	108	4	0	4
			5W	12241	113	4	0	2	12205	113	4	0	2	11546	107	4	0	2
			C	11445	99	2	0	2	11445	99	2	0	2	11445	106	2	0	2
			FR	12690	117	1	0	1	12653	117	1	0	1	11969	111	1	0	1
	TC	12578	116	1	0	2	12541	116	1	0	2	11864	110	1	0	2		
	120	120.9	2	13398	111	2	0	2	13358	110	2	0	2	12636	105	2	0	2
			3	13263	110	2	0	3	13223	109	2	0	3	12509	103	2	0	3
			4F	13467	111	1	0	3	13426	111	1	0	3	12701	105	1	0	3
			4W	13288	110	2	0	3	13248	110	2	0	3	12533	104	2	0	3
			5QM	13705	113	3	0	2	13664	113	3	0	2	12926	107	3	0	2
			5QN	13713	113	4	0	0	13672	113	4	0	0	12934	107	3	0	0
			5QW	12733	105	4	0	3	12695	105	4	0	3	12009	99	4	0	3
			5RW	13411	111	4	0	4	13371	111	4	0	4	12649	105	4	0	4
			5W	13312	110	4	0	2	13272	110	4	0	2	12555	104	4	0	2
			C	12446	96	2	0	2	12446	96	2	0	2	12446	103	2	0	2
FR			13800	114	1	0	1	13758	114	1	0	1	13016	108	1	0	1	
TC	13678	113	1	0	2	13637	113	1	0	2	12901	107	1	0	2			

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	115	112.1	2	14701	131	2	0	2	14657	131	2	0	2	13866	124	2	0	2
			3	14553	130	2	0	3	14509	129	2	0	3	13726	122	2	0	3
			4F	14776	132	1	0	3	14732	131	1	0	3	13937	124	1	0	3
			4W	14581	130	2	0	3	14537	130	2	0	3	13752	123	2	0	3
			5QM	15038	134	3	0	2	14993	134	3	0	2	14183	127	3	0	2
			5QN	15047	134	4	0	0	15002	134	4	0	0	14192	127	4	0	0
			5QW	13971	125	4	0	3	13929	124	4	0	3	13177	118	4	0	3
			5RW	14715	131	4	0	4	14671	131	4	0	4	13879	124	4	0	4
			5W	14606	130	4	0	2	14563	130	4	0	2	13776	123	4	0	2
			C	14571	130	2	0	3	14571	130	2	0	3	13656	122	2	0	3
			FR	15142	135	2	0	1	15097	135	2	0	1	14282	127	1	0	1
			TC	15008	134	2	0	2	14963	133	2	0	2	14155	126	1	0	2
	145	141.2	2	17797	126	3	0	3	17744	126	3	0	3	16786	119	3	0	3
			3	17618	125	2	0	3	17565	124	2	0	3	16617	118	2	0	3
			4F	17889	127	2	0	3	17835	126	2	0	3	16872	119	2	0	3
			4W	17652	125	2	0	4	17599	125	2	0	4	16649	118	2	0	4
			5QM	18205	129	4	0	2	18151	129	4	0	2	17170	122	4	0	2
			5QN	18216	129	4	0	0	18162	129	4	0	0	17181	122	4	0	0
			5QW	16914	120	4	0	3	16863	119	4	0	3	15953	113	4	0	3
			5RW	17815	126	4	0	4	17761	126	4	0	4	16802	119	4	0	4
			5W	17683	125	4	0	2	17630	125	4	0	2	16678	118	4	0	2
			C	17640	125	3	0	3	17640	125	3	0	3	16532	117	3	0	3
			FR	18331	130	2	0	2	18276	129	2	0	2	17290	122	2	0	2
			TC	18169	129	2	0	2	18115	128	2	0	2	17137	121	2	0	2
	180	177.0	2	21314	120	3	0	3	21250	120	3	0	3	20102	114	3	0	3
			3	21099	119	3	0	4	21036	119	3	0	4	19900	112	3	0	4
			4F	21423	121	2	0	4	21359	121	2	0	4	20206	114	2	0	4
			4W	21139	119	2	0	4	21076	119	2	0	4	19938	113	2	0	4
			5QM	21802	123	4	0	2	21737	123	4	0	2	20563	116	4	0	2
			5QN	21815	123	4	0	0	21750	123	4	0	0	20575	116	4	0	0
			5QW	20256	114	5	0	4	20195	114	5	0	4	19104	108	5	0	3
			5RW	21334	121	5	0	5	21271	120	5	0	5	20122	114	5	0	5
			5W	21176	120	5	0	3	21113	119	5	0	3	19973	113	5	0	3
C			21125	119	3	0	4	21125	119	3	0	4	19799	112	3	0	4	
FR			21953	124	2	0	2	21888	124	2	0	2	20706	117	2	0	2	
TC			21759	123	2	0	2	21694	123	2	0	2	20523	116	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	210	217.3	2	24102	111	3	0	3	24030	111	3	0	3	22732	105	3	0	3
			3	23859	110	3	0	4	23788	109	3	0	4	22503	104	3	0	4
			4F	24226	111	2	0	4	24153	111	2	0	4	22849	105	2	0	4
			4W	23905	110	3	0	5	23833	110	3	0	5	22546	104	2	0	4
			5QM	24654	113	4	0	2	24581	113	4	0	2	23253	107	4	0	2
			5QN	24669	114	5	0	1	24595	113	5	0	1	23267	107	5	0	0
			5QW	22905	105	5	0	4	22837	105	5	0	4	21604	99	5	0	4
			5RW	24126	111	5	0	5	24053	111	5	0	5	22754	105	5	0	5
			5W	23947	110	5	0	3	23875	110	5	0	3	22586	104	5	0	3
			C	23889	110	3	0	4	23889	110	3	0	4	22389	103	3	0	4
			FR	24825	114	2	0	2	24751	114	2	0	2	23414	108	2	0	2
			TC	24606	113	2	0	2	24532	113	2	0	2	23207	107	2	0	2
	240	238.6	2	26781	112	3	0	4	26701	112	3	0	4	25259	106	3	0	3
			3	26511	111	3	0	4	26432	111	3	0	4	25005	105	3	0	4
			4F	26918	113	2	0	4	26838	112	2	0	4	25389	106	2	0	4
			4W	26562	111	3	0	5	26483	111	3	0	5	25053	105	3	0	5
			5QM	27395	115	4	0	2	27313	114	4	0	2	25838	108	4	0	2
			5QN	27411	115	5	0	1	27329	115	5	0	1	25853	108	5	0	1
			5QW	25451	107	5	0	4	25375	106	5	0	4	24005	101	5	0	4
			5RW	26807	112	5	0	5	26727	112	5	0	5	25284	106	5	0	5
			5W	26609	112	5	0	3	26529	111	5	0	3	25097	105	5	0	3
			C	26544	111	3	0	4	26544	111	3	0	4	24878	104	3	0	4
			FR	27585	116	2	0	2	27502	115	2	0	2	26017	109	2	0	2
			TC	27341	115	2	0	2	27259	114	2	0	2	25787	108	2	0	2
	215	215.0	2	26697	124	3	0	4	26617	124	3	0	4	25180	117	3	0	3
			3	26428	123	3	0	4	26349	123	3	0	4	24926	116	3	0	4
			4F	26834	125	2	0	4	26754	124	2	0	4	25309	118	2	0	4
			4W	26479	123	3	0	5	26400	123	3	0	5	24974	116	3	0	5
			5QM	27309	127	4	0	2	27227	127	4	0	2	25757	120	4	0	2
			5QN	27325	127	5	0	1	27243	127	5	0	1	25772	120	5	0	1
			5QW	25372	118	5	0	4	25296	118	5	0	4	23930	111	5	0	4
			5RW	26723	124	5	0	5	26643	124	5	0	5	25204	117	5	0	5
			5W	26525	123	5	0	3	26446	123	5	0	3	25018	116	5	0	3
C			26461	123	3	0	4	26461	123	3	0	4	24799	115	3	0	4	
FR			27498	128	2	0	2	27416	128	2	0	2	25935	121	2	0	2	
TC			27255	127	2	0	2	27174	126	2	0	2	25706	120	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	250	247.5	2	30249	122	3	0	4	30159	122	3	0	4	28530	115	3	0	4
			3	29944	121	3	0	4	29855	121	3	0	4	28243	114	3	0	4
			4F	30404	123	2	0	5	30313	122	2	0	5	28676	116	2	0	5
			4W	30002	121	3	0	5	29912	121	3	0	5	28297	114	3	0	5
			5QM	30942	125	5	0	3	30849	125	5	0	3	29184	118	5	0	2
			5QN	30961	125	5	0	1	30868	125	5	0	1	29201	118	5	0	1
			5QW	28747	116	5	0	4	28661	116	5	0	4	27113	110	5	0	4
			5RW	30278	122	5	0	5	30188	122	5	0	5	28558	115	5	0	5
			5W	30054	121	5	0	4	29964	121	5	0	4	28346	115	5	0	3
			C	29982	121	3	0	4	29982	121	3	0	4	28099	114	3	0	4
			FR	31157	126	2	0	2	31063	126	2	0	2	29386	119	2	0	2
			TC	30881	125	3	0	3	30789	124	3	0	3	29126	118	3	0	2
	280	274.6	2	32729	119	3	0	4	32631	119	3	0	4	30869	112	3	0	4
			3	32400	118	3	0	5	32303	118	3	0	5	30558	111	3	0	5
			4F	32897	120	2	0	5	32799	119	2	0	5	31028	113	2	0	5
			4W	32462	118	3	0	5	32365	118	3	0	5	30617	112	3	0	5
			5QM	33479	122	5	0	3	33379	122	5	0	3	31577	115	5	0	3
			5QN	33499	122	5	0	1	33399	122	5	0	1	31596	115	5	0	1
			5QW	31104	113	5	0	5	31011	113	5	0	5	29337	107	5	0	4
			5RW	32761	119	5	0	5	32663	119	5	0	5	30899	113	5	0	5
			5W	32519	118	5	0	4	32421	118	5	0	4	30671	112	5	0	4
			C	32440	118	3	0	5	32440	118	3	0	5	30403	111	3	0	5
			FR	33711	123	2	0	2	33610	122	2	0	2	31795	116	2	0	2
			TC	33413	122	3	0	3	33313	121	3	0	3	31515	115	3	0	3
	325	325.0	2	36969	114	3	0	4	36858	113	3	0	4	34868	107	3	0	4
			3	36597	113	3	0	5	36487	112	3	0	5	34517	106	3	0	5
			4F	37159	114	3	0	5	37047	114	3	0	5	35047	108	3	0	5
			4W	36667	113	3	0	5	36557	112	3	0	5	34583	106	3	0	5
			5QM	37816	116	5	0	3	37703	116	5	0	3	35667	110	5	0	3
			5QN	37839	116	5	0	1	37726	116	5	0	1	35688	110	5	0	1
			5QW	35133	108	5	0	5	35028	108	5	0	5	33137	102	5	0	5
			5RW	37005	114	5	0	5	36894	114	5	0	5	34902	107	5	0	5
			5W	36731	113	5	0	4	36621	113	5	0	4	34643	107	5	0	4
C			36642	113	3	0	5	36642	113	3	0	5	34341	106	3	0	5	
FR			38078	117	3	0	2	37964	117	3	0	2	35914	111	3	0	2	
TC			37742	116	3	0	3	37629	116	3	0	3	35597	110	3	0	3	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	365	357.7	2	40171	112	3	0	4	40051	112	3	0	4	37888	106	3	0	4
			3	39767	111	3	0	5	39648	111	3	0	5	37507	105	3	0	5
			4F	40377	113	3	0	5	40257	113	3	0	5	38083	106	3	0	5
			4W	39843	111	3	0	5	39724	111	3	0	5	37579	105	3	0	5
			5QM	41092	115	5	0	3	40969	115	5	0	3	38756	108	5	0	3
			5QN	41117	115	5	0	1	40994	115	5	0	1	38780	108	5	0	1
			5QW	38177	107	5	0	5	38063	106	5	0	5	36007	101	5	0	5
			5RW	40210	112	5	0	5	40090	112	5	0	5	37925	106	5	0	5
			5W	39913	112	5	0	4	39793	111	5	0	4	37644	105	5	0	4
			C	39816	111	3	0	5	39816	111	3	0	5	37316	104	3	0	5
			FR	41377	116	3	0	2	41253	115	3	0	2	39025	109	3	0	2
			TC	41011	115	3	0	3	40888	114	3	0	3	38680	108	3	0	3

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - MICROSTRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
		277	0.55	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
		277	0.63	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
		480	0.54	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
		480	0.61	
340	120	2.89	347.1	
	208	1.67		
	240	1.45		
	277	1.25		
	347	1.00		
	480	0.72		

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - STRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36	39	120	0.326	39.1
		208	0.188	
		240	0.163	
		277	0.141	
		347	0.113	
		480	0.081	
	55	120	0.473	56.8
		208	0.273	
		240	0.237	
		277	0.205	
		347	0.164	
		480	0.118	
	85	120	0.697	83.6
		208	0.402	
		240	0.348	
		277	0.302	
		347	0.241	
		480	0.174	
	105	120	0.902	108.2
		208	0.520	
		240	0.451	
		277	0.391	
		347	0.312	
		480	0.225	
120	120	1.008	120.9	
	208	0.581		
	240	0.504		
	277	0.436		
	347	0.348		
	480	0.252		

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
72L	115	120	0.934	112.1
		208	0.539	
		240	0.467	
		277	0.405	
		347	0.323	
		480	0.234	
	145	120	1.177	141.2
		208	0.679	
		240	0.588	
		277	0.510	
		347	0.407	
		480	0.294	
	180	120	1.475	177.0
		208	0.851	
		240	0.738	
		277	0.639	
		347	0.510	
		480	0.369	
	210	120	1.811	217.3
		208	1.045	
		240	0.905	
		277	0.784	
		347	0.626	
		480	0.453	
240	120	1.988	238.6	
	208	1.147		
	240	0.994		
	277	0.861		
	347	0.688		
	480	0.497		
108L	215	120	1.792	215.0
		208	1.034	
		240	0.896	
		277	0.776	
		347	0.620	
		480	0.448	
	250	120	2.063	247.5
		208	1.190	
		240	1.031	
		277	0.894	
		347	0.713	
		480	0.516	
	280	120	2.288	274.6
		208	1.320	
		240	1.144	
		277	0.991	
		347	0.791	
		480	0.572	
	325	120	2.708	325.0
		208	1.563	
		240	1.354	
		277	1.173	
		347	0.937	
		480	0.677	
365	120	2.981	357.7	
	208	1.720		
	240	1.490		
	277	1.291		
	347	1.031		
	480	0.745		

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-
3000K	0.977	0.861	0.647
3500K	-	0.900	-
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

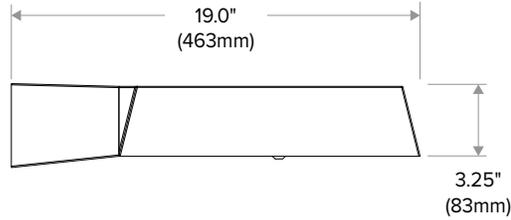
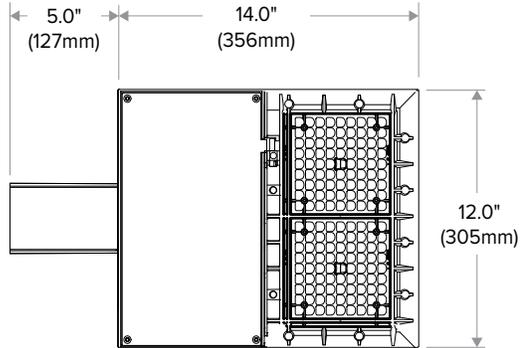
Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	<a href="#">See Amber Spec Sheet</a>		

# RATIO Series

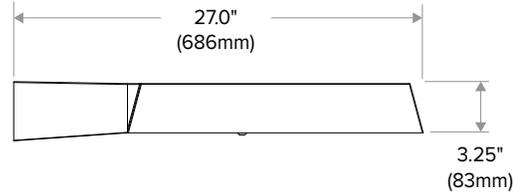
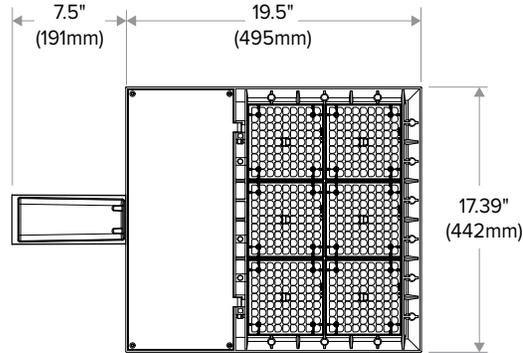
AREA/SITE LIGHTER

## DIMENSIONS

RAR1

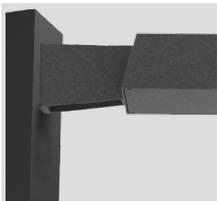


RAR2



## ADDITIONAL INFORMATION

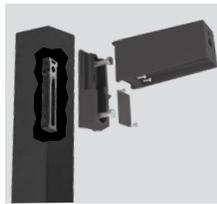
### MOUNTING



**Arm Mount – ASQ:** Fixture ships with integral arm for ease of installation.



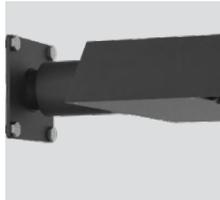
**Knuckle –** Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



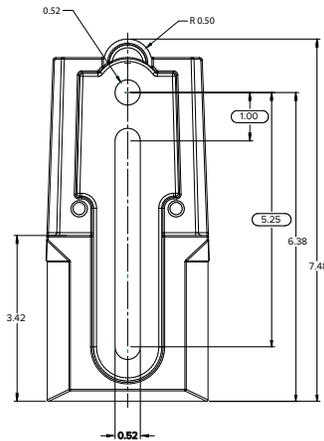
**Universal Mounting –** Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and S2 and B3 drill patterns



**MAF –** Fits 2-3/8" OD arms Roadway applications.



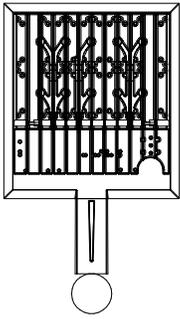
**Wall Mount –** Wall mount bracket designed for building mount applications.



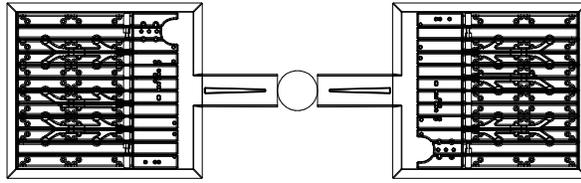
# RATIO Series

AREA/SITE LIGHTER

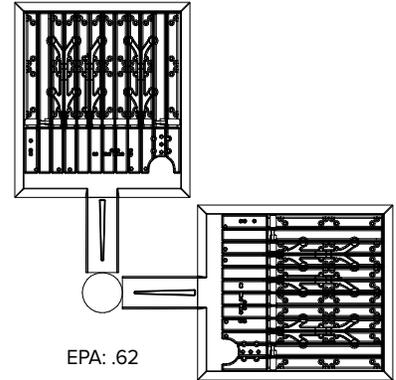
## EPA (RAR1)



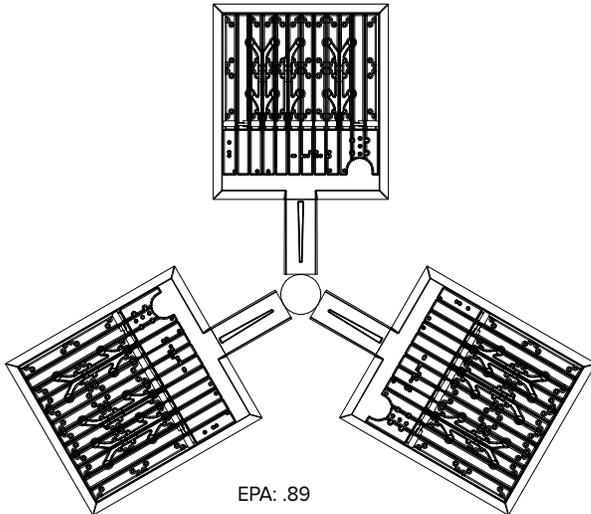
EPA Knuckle Mount 0 degrees: .43  
 EPA Knuckle Mount 30 degrees: .55  
 EPA Arm Mount: 0 degrees .45



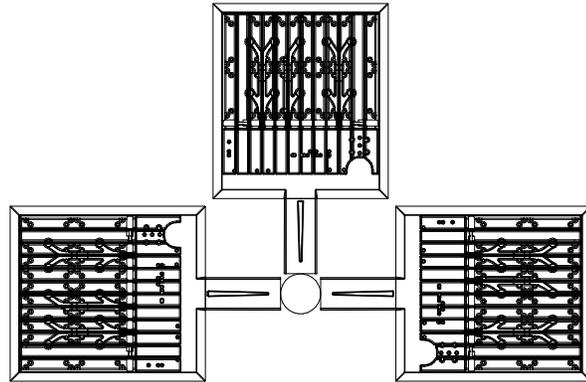
EPA: .99



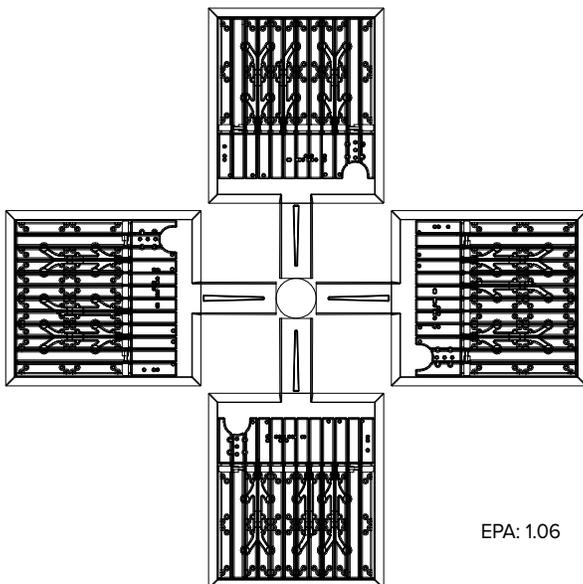
EPA: .62



EPA: .89



EPA: .99

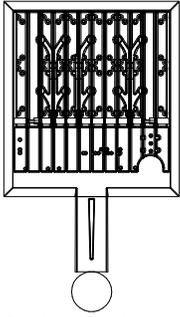


EPA: 1.06

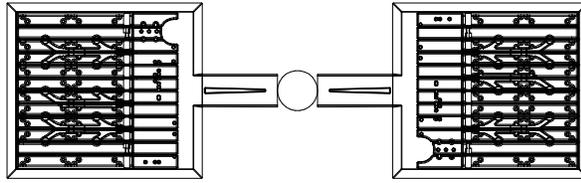
# RATIO Series

AREA/SITE LIGHTER

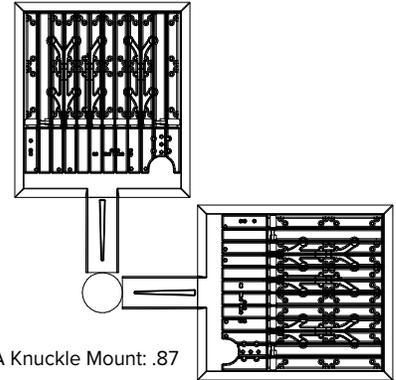
## EPA (RAR2)



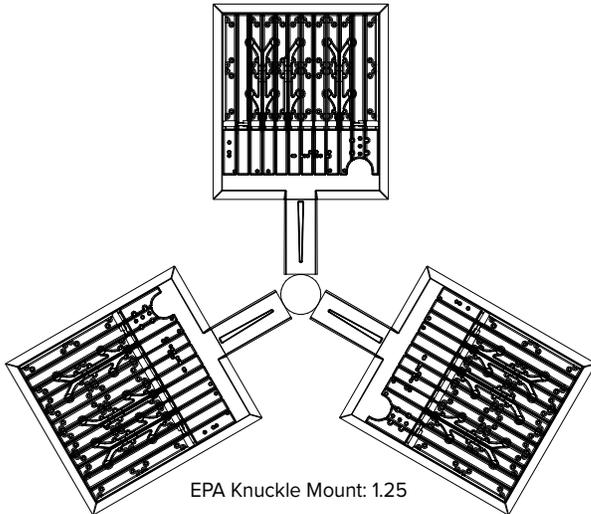
EPA Knuckle Mount: .52  
EPA Arm Mount: .55



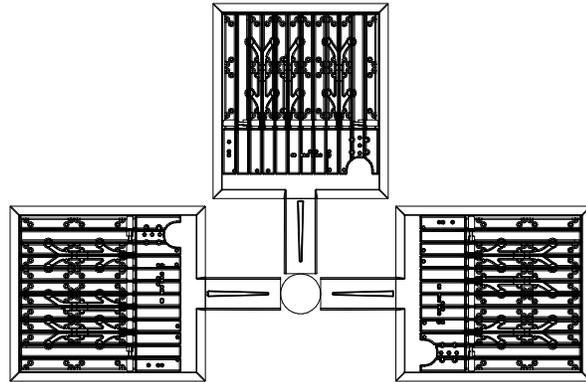
EPA: 1.486



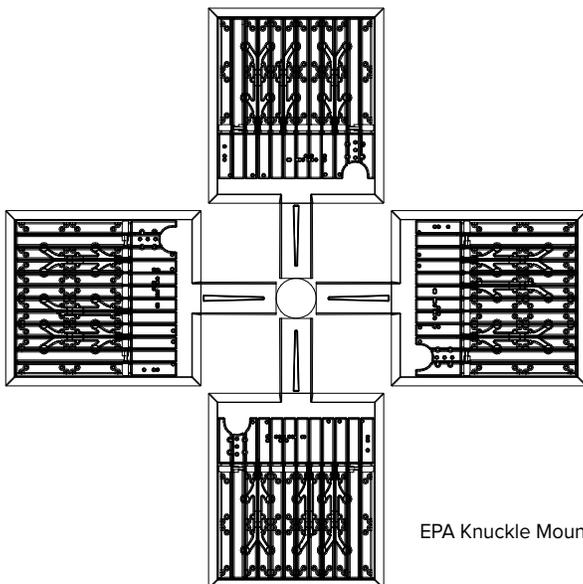
EPA Knuckle Mount: .87



EPA Knuckle Mount: 1.25



EPA Knuckle Mount: 1.41



EPA Knuckle Mount: 1.56

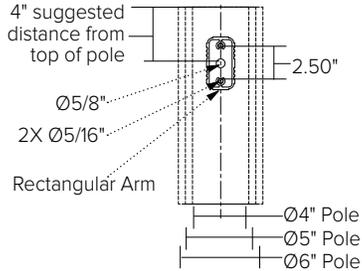
# RATIO Series

AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

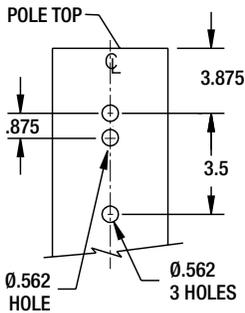
### ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



### UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

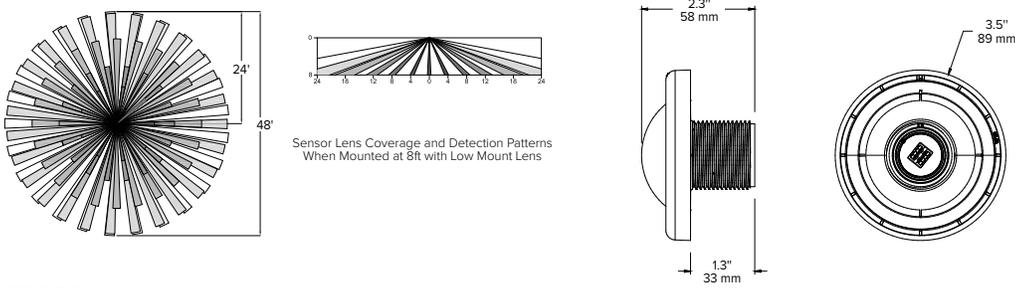
ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

# RATIO Series

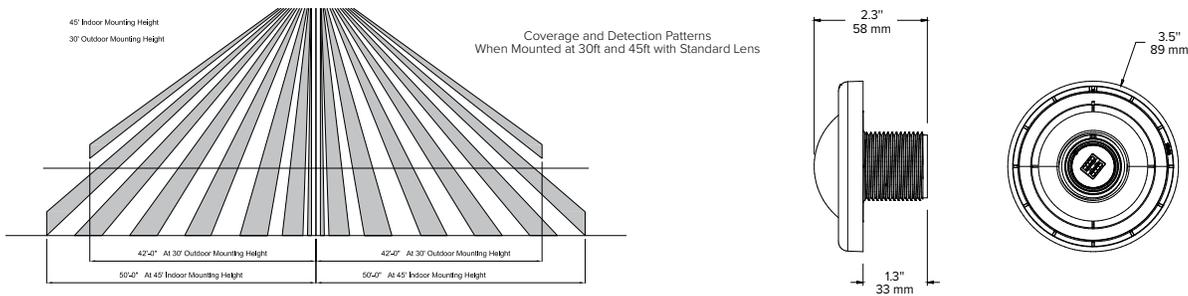
AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

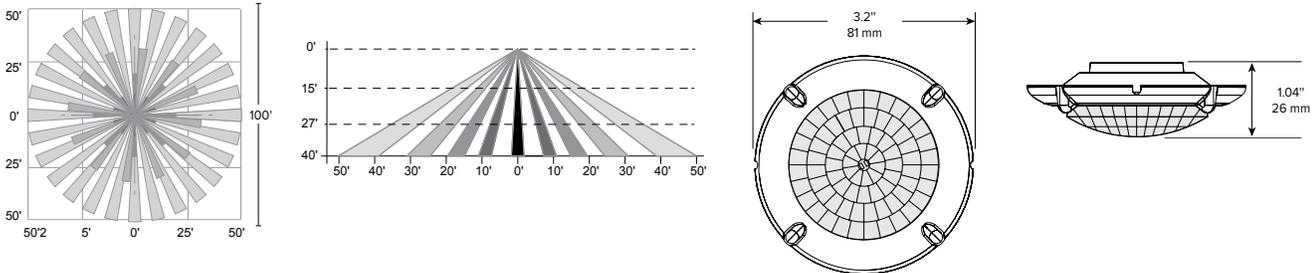
### NXSP-14F



### NXSP-30F



### SCP-40F



### RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. <sup>2</sup> .13m <sup>2</sup>	.56ft. <sup>2</sup> .17m <sup>2</sup>

### RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. <sup>2</sup> .17m <sup>2</sup>	1.48ft. <sup>2</sup> .45m <sup>2</sup>

### SHIPPING

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

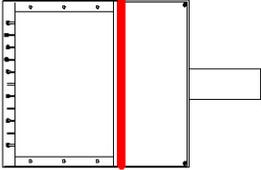
# RATIO Series

AREA/SITE LIGHTER

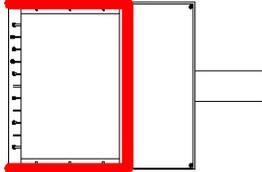
## ADDITIONAL INFORMATION (CONT'D)

### RATIO HOUSE SIDE SHIELD

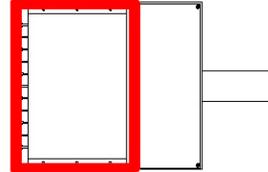
RARx HSS-90-B-xx



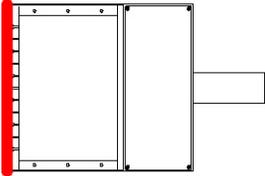
RARx HSS-270-BSS-xx



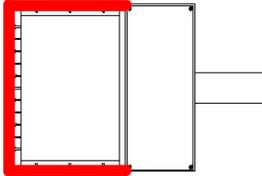
RARx HSS-360-xx



RARx HSS-90-F-xx

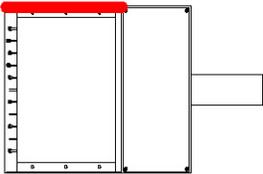


RARx HSS-270-FSS-xx

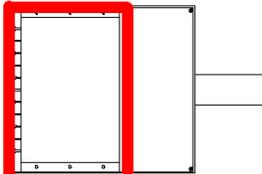


**Note:** Not to be used with Occupancy Sensors as the shield may block the light to the sensor

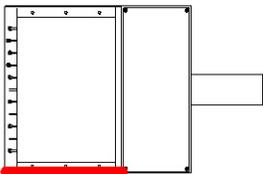
RARx HSS-90-S-xx



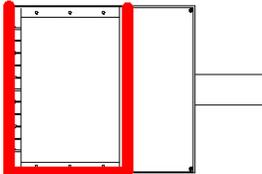
RARx HSS-270-FSB-xx



RARx HSS-90-S-xx



RARx HSS-270-FSB-xx



# RATIO Series

AREA/SITE LIGHTER

## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

## SERVICE PROGRAMS

STOCK QS10

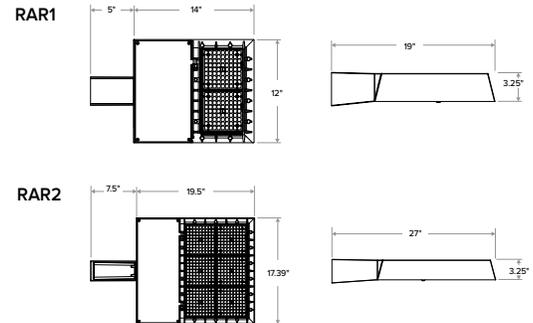
### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

## MICROSTRIKE | STRIKE OPTICS



	Weight	EPA at 0°
RAR1	13.5 lbs / 61 kg	.45ft. <sup>2</sup> / .13m <sup>2</sup>
RAR2	24 lbs / 10.9 kg	.55ft. <sup>2</sup> / .17m <sup>2</sup>

### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to [www.designlights.org](http://www.designlights.org) for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

### WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

 Gray Shading = Service Program  
 Limit of 15 luminaires


## MICRO STRIKE OPTICS - ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Micro Strike	<b>80L-25</b> 25W - 3,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>2</b> IES TYPE II	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>80L-39</b> 39W - 5,200 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>3</b> IES TYPE III	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>80L-50</b> 50W - 6,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>4W</b> IES TYPE IV	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>160L-70</b> 70W - 9,000 Lumens		<b>4F</b> IES TYPE IV Forward		<b>240</b> 240V
	<b>160L-100</b> 100W - 12,000 Lumens		<b>5QW</b> IES TYPE V		<b>277</b> 277V
	<b>160L-115</b> 115W - 15,000 Lumens				<b>347</b> 347V
	<b>160L-135</b> 135W - 18,000 Lumens				<b>480</b> 480V
<b>RAR2</b> Ratio Area Size 2 - Micro Strike	<b>320L-110</b> 110W - 15,000 Lumens				
	<b>320L-140</b> 140W - 18,000 Lumens				
	<b>320L-165</b> 165W - 21,000 Lumens				
	<b>480L-185</b> 185W - 24,000 Lumens				
	<b>480L-210</b> 210W - 27,000 Lumens				
	<b>480L-240</b> 240W - 30,000 Lumens				
	<b>480L-255</b> 255W - 36,000 Lumens				
	<b>480L-295</b> 295W - 42,000 Lumens				
<b>480L-340</b> 340W - 48,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 70 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER STRIKE

## STRIKE OPTIC - ORDERING GUIDE

**Example:** RAR1-36L-39-3K7-2-UNV-ASQ-BLT-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Strike Optics	<b>36L-39</b> 39W - 5,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>FR</b> Auto Front Row	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>36L-55</b> 55W - 7,000 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>2</b> Type 2	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>36L-85</b> 85W - 10,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>3</b> Type 3	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>36L-105</b> 105W - 12,000 Lumens	<b>3K8</b> 3000K, 80 CRI	<b>4F</b> Type 4 Forward		<b>240</b> 240V
	<b>36L-120</b> 120W - 13,000 Lumens	<b>4K8</b> 4000K, 80 CRI	<b>4W</b> Type 4 Wide		<b>277</b> 277V
	<b>72L-115</b> 115W - 14,000 Lumens	<b>5K8</b> 5000K, 80 CRI	<b>5QN</b> Type 5 Square Narrow		<b>347</b> 347V
	<b>72L-145</b> 145W - 17,000 Lumens		<b>5QW</b> Type 5 Square Wide		<b>480</b> 480V
	<b>RAR2</b> Ratio Area Size 2 - Strike Optics	<b>72L-180</b> 180W - 20,000 Lumens		<b>5QM</b> Type 5 Square Medium	
<b>72L-210</b> 210W - 24,000 Lumens			<b>5W</b> Type 5 Wide (Round)		
<b>72L-240</b> 240W - 26,000 Lumens			<b>5RW</b> Type 5 Rectangular		
<b>108L-215</b> 215W - 27,000 Lumens			<b>C</b> Corner Optic		
<b>108L-250</b> 250W - 30,000 Lumens			<b>TC</b> Tennis Court Optic		
<b>108L-280</b> 280W - 33,000 Lumens					
<b>108L-325</b> 325W - 37,000 Lumens					
<b>108L-365</b> 365W - 40,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 50 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

## CONTROLS FUNCTIONALITY



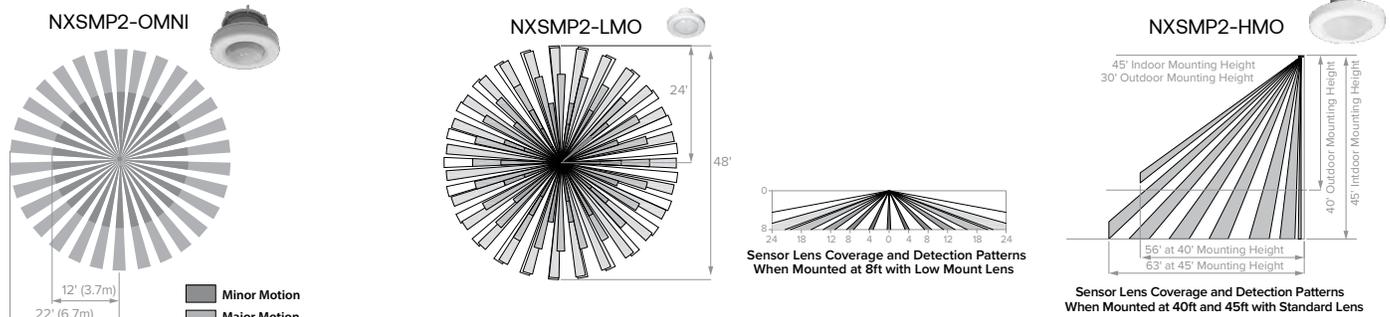
Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components	
	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height			
NX Wireless	NXOFM2-1R1D-UNV	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM2-1R1D-UNV
	NXW	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
Independent	BTSO-12F	-	-	-	✓	✓	✓	✓	✓	12ft		BTSPM-OMNI-O
	BTS-14F	-	-	-	✓	✓	✓	✓	✓	14ft		BTSPM-LMO
	BTS-40F	-	-	-	✓	✓	✓	✓	✓	40ft		BTSPM-HMO

## DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	*Passcode Factory Passcode: HubbN3T!	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

## NX WIRELESS COVERAGE PATTERNS



## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US)



Apple App



Google Play

# RATIO Series

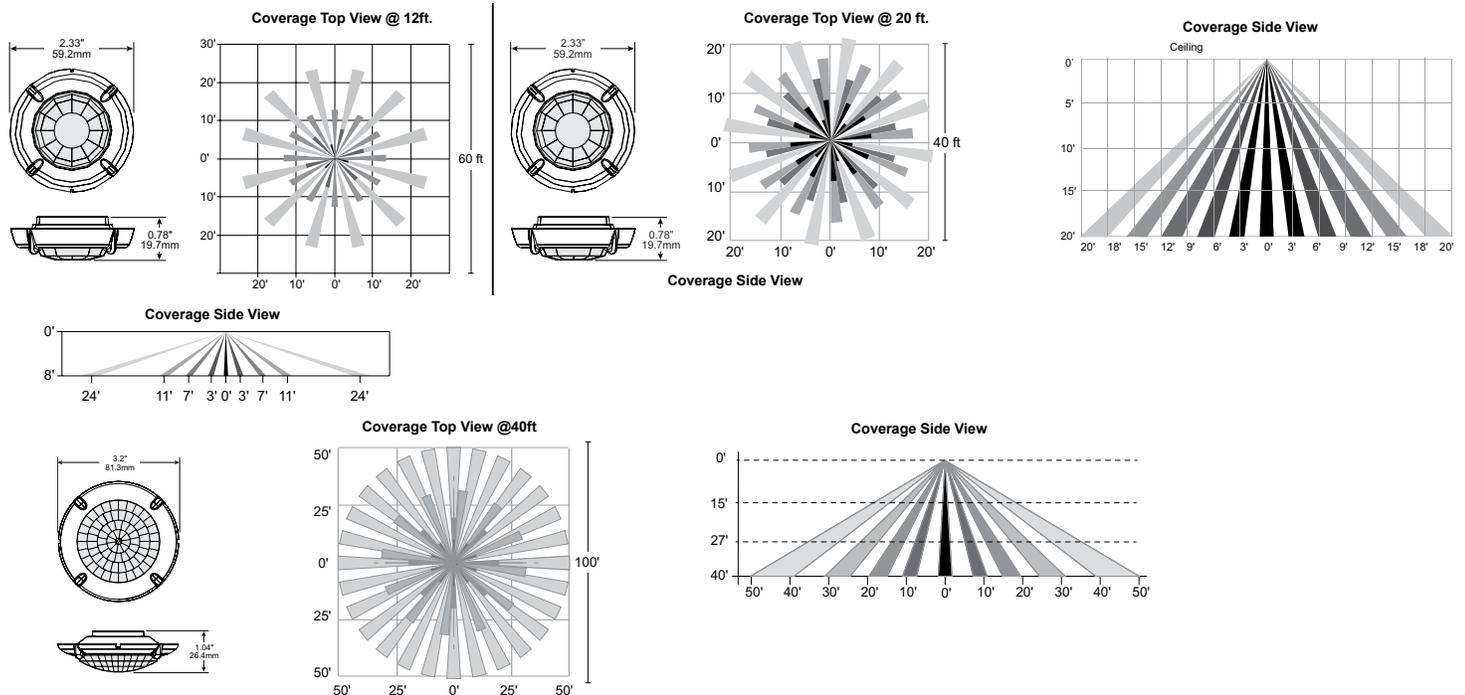
AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

### CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
SCP_F Sensor Control Programmable, sensor range, reference product specification for height selections	-	-	-	✓	✓	✓	✓	-	8ft or 20ft	SCP_F
ADD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD
ADT AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT
7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR
7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 7PR-SC
7PR-TL 7-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	 7PR-TL

### COVERAGE PATTERNS FOR SCP\_F



### PROGRAMMED CONTROLS

#### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

#### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

# RATIO Series

AREA/SITE LIGHTER

## STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

## POLE COMBOS

Catalog Number	Pole	Single or Double Head	Fixture	Lumens	Wattage	Distribution	CCT/CRI	Mounting	Finish
RAR1-100-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
SSSH-20-40-STK	20' Square Straight Steel	Pole Only	Not Included						
SSSH-25-40-STK	25' Square Straight Steel	Pole Only	Not Included						
SSSH-STK-4-KIT		Kit Only	Not Included						

# RATIO Series

AREA/SITE LIGHTER

## CONTROLS

### Control Options

#### Standalone

**SCPREMOTE** Order at least one per project location to program and control

#### Networked – Wireless

**WIR-RME-L** LightGRID+ External Fixture Module<sup>1,2</sup>

#### NX Networked – Wireless

**NXOFM-1R1D-UNV** NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- 1 Works with external networked photosensor
- 2 LightGRID+ Gateway required for system programming

## OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> ACC-O-RAR-ST1-SHLD-BC-36L	Back Light Control for RAR1 Strike 36L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-72L	Back Light Control for RAR2 Strike 72L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-108L	Back Light Control for RAR2 Strike 108L
<input type="checkbox"/> ACC-O-RAR-ST3-SHLD-BC-162L	Back Light Control for RAR3 Strike 162L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-80L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 80L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-160L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 160L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-320L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 320L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-480L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 480L
<input type="checkbox"/> ACC-O-RAR3-SHLD-BC-720L-X <sup>1</sup>	Back Light Control for RAR3 Micro Strike 720L

1 Replace X with distribution type ("2" for Type 2, "3" for Type 3, "4F" for Type 4F, Type "4W" for Type 4W)

## ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface <sup>2</sup>
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles <sup>1,2</sup>
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter <sup>1,2</sup>
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter <sup>2</sup>
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately <sup>2</sup>
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle <sup>2</sup>

1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole

2 Replace "XX" with desired color/paint finish

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

## PERFORMANCE DATA - MICRO STRIKE

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2

RAR2 Performance Data on next page

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - MICROSTRIKE (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	39	39.1	2	5385	138	1	0	1	5369	137	1	0	1	5079	130	1	0	1
			3	5331	136	1	0	2	5315	136	1	0	2	5028	129	1	0	2
			4F	5413	138	1	0	2	5396	137	1	0	2	5105	130	1	0	2
			4W	5341	137	1	0	2	5325	136	1	0	2	5037	129	1	0	2
			5QM	5508	140	2	0	1	5492	140	2	0	1	5195	132	2	0	1
			5QN	5512	140	2	0	0	5495	140	2	0	0	5198	132	2	0	0
			5QW	5118	131	3	0	2	5102	130	3	0	2	4827	123	3	0	2
			5RW	5390	138	3	0	3	5374	137	3	0	3	5084	130	3	0	3
			5W	5350	137	3	0	1	5334	136	3	0	1	5046	129	3	0	1
			C	5002	120	1	0	2	5002	120	1	0	2	5002	128	1	0	2
			FR	5547	141	1	0	1	5530	141	1	0	1	5231	133	1	0	1
			TC	5498	140	1	0	1	5481	140	1	0	1	5185	132	1	0	1
	55	56.8	2	7350	129	1	0	2	7329	129	1	0	2	6933	122	1	0	2
			3	7276	128	1	0	2	7255	128	1	0	2	6863	121	1	0	2
			4F	7388	130	1	0	2	7366	130	1	0	2	6968	123	1	0	2
			4W	7290	128	1	0	3	7269	128	1	0	3	6876	121	1	0	2
			5QM	7519	132	3	0	1	7496	132	3	0	1	7092	125	3	0	1
			5QN	7523	132	3	0	0	7501	132	3	0	0	7096	125	3	0	0
			5QW	6986	123	3	0	2	6965	123	3	0	2	6589	116	3	0	2
			5RW	7358	130	3	0	3	7336	129	3	0	3	6940	122	3	0	3
			5W	7303	129	3	0	2	7281	128	3	0	2	6888	121	3	0	2
			C	6828	113	1	0	2	6828	113	1	0	2	6828	120	1	0	2
			FR	7571	133	1	0	1	7548	133	1	0	1	7141	126	1	0	1
			TC	7504	132	1	0	1	7482	132	1	0	1	7078	125	1	0	1
	85	83.6	2	10081	121	2	0	2	10051	120	2	0	2	9508	114	2	0	2
			3	9979	119	2	0	2	9949	119	2	0	2	9412	113	1	0	2
			4F	10132	121	1	0	2	10102	121	1	0	2	9557	114	1	0	2
			4W	9998	120	1	0	3	9968	119	1	0	3	9430	113	1	0	3
			5QM	10312	123	3	0	1	10281	123	3	0	1	9726	116	3	0	1
			5QN	10318	123	3	0	0	10287	123	3	0	0	9732	116	3	0	0
			5QW	9580	115	4	0	3	9552	114	4	0	3	9036	108	4	0	3
			5RW	10090	121	4	0	4	10060	120	4	0	4	9517	114	3	0	3
			5W	10016	120	4	0	2	9986	119	4	0	2	9447	113	3	0	2
C			9364	105	2	0	2	9364	105	2	0	2	9364	112	2	0	2	
FR			10383	124	1	0	1	10352	124	1	0	1	9793	117	1	0	1	
TC			10291	123	1	0	1	10261	123	1	0	1	9707	116	1	0	1	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	105	108.2	2	12321	114	2	0	2	12284	114	2	0	2	11621	107	2	0	2
			3	12197	113	2	0	3	12160	112	2	0	3	11504	106	2	0	3
			4F	12384	114	1	0	3	12347	114	1	0	3	11680	108	1	0	2
			4W	12220	113	2	0	3	12183	113	2	0	3	11526	107	1	0	3
			5QM	12603	116	3	0	2	12565	116	3	0	2	11887	110	3	0	2
			5QN	12611	117	3	0	0	12573	116	3	0	0	11894	110	3	0	0
			5QW	11709	108	4	0	3	11674	108	4	0	3	11044	102	4	0	3
			5RW	12333	114	4	0	4	12296	114	4	0	4	11632	108	4	0	4
			5W	12241	113	4	0	2	12205	113	4	0	2	11546	107	4	0	2
			C	11445	99	2	0	2	11445	99	2	0	2	11445	106	2	0	2
			FR	12690	117	1	0	1	12653	117	1	0	1	11969	111	1	0	1
	TC	12578	116	1	0	2	12541	116	1	0	2	11864	110	1	0	2		
	120	120.9	2	13398	111	2	0	2	13358	110	2	0	2	12636	105	2	0	2
			3	13263	110	2	0	3	13223	109	2	0	3	12509	103	2	0	3
			4F	13467	111	1	0	3	13426	111	1	0	3	12701	105	1	0	3
			4W	13288	110	2	0	3	13248	110	2	0	3	12533	104	2	0	3
			5QM	13705	113	3	0	2	13664	113	3	0	2	12926	107	3	0	2
			5QN	13713	113	4	0	0	13672	113	4	0	0	12934	107	3	0	0
			5QW	12733	105	4	0	3	12695	105	4	0	3	12009	99	4	0	3
			5RW	13411	111	4	0	4	13371	111	4	0	4	12649	105	4	0	4
			5W	13312	110	4	0	2	13272	110	4	0	2	12555	104	4	0	2
			C	12446	96	2	0	2	12446	96	2	0	2	12446	103	2	0	2
FR			13800	114	1	0	1	13758	114	1	0	1	13016	108	1	0	1	
TC	13678	113	1	0	2	13637	113	1	0	2	12901	107	1	0	2			

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	115	112.1	2	14701	131	2	0	2	14657	131	2	0	2	13866	124	2	0	2
			3	14553	130	2	0	3	14509	129	2	0	3	13726	122	2	0	3
			4F	14776	132	1	0	3	14732	131	1	0	3	13937	124	1	0	3
			4W	14581	130	2	0	3	14537	130	2	0	3	13752	123	2	0	3
			5QM	15038	134	3	0	2	14993	134	3	0	2	14183	127	3	0	2
			5QN	15047	134	4	0	0	15002	134	4	0	0	14192	127	4	0	0
			5QW	13971	125	4	0	3	13929	124	4	0	3	13177	118	4	0	3
			5RW	14715	131	4	0	4	14671	131	4	0	4	13879	124	4	0	4
			5W	14606	130	4	0	2	14563	130	4	0	2	13776	123	4	0	2
			C	14571	130	2	0	3	14571	130	2	0	3	13656	122	2	0	3
			FR	15142	135	2	0	1	15097	135	2	0	1	14282	127	1	0	1
			TC	15008	134	2	0	2	14963	133	2	0	2	14155	126	1	0	2
	145	141.2	2	17797	126	3	0	3	17744	126	3	0	3	16786	119	3	0	3
			3	17618	125	2	0	3	17565	124	2	0	3	16617	118	2	0	3
			4F	17889	127	2	0	3	17835	126	2	0	3	16872	119	2	0	3
			4W	17652	125	2	0	4	17599	125	2	0	4	16649	118	2	0	4
			5QM	18205	129	4	0	2	18151	129	4	0	2	17170	122	4	0	2
			5QN	18216	129	4	0	0	18162	129	4	0	0	17181	122	4	0	0
			5QW	16914	120	4	0	3	16863	119	4	0	3	15953	113	4	0	3
			5RW	17815	126	4	0	4	17761	126	4	0	4	16802	119	4	0	4
			5W	17683	125	4	0	2	17630	125	4	0	2	16678	118	4	0	2
			C	17640	125	3	0	3	17640	125	3	0	3	16532	117	3	0	3
			FR	18331	130	2	0	2	18276	129	2	0	2	17290	122	2	0	2
			TC	18169	129	2	0	2	18115	128	2	0	2	17137	121	2	0	2
	180	177.0	2	21314	120	3	0	3	21250	120	3	0	3	20102	114	3	0	3
			3	21099	119	3	0	4	21036	119	3	0	4	19900	112	3	0	4
			4F	21423	121	2	0	4	21359	121	2	0	4	20206	114	2	0	4
			4W	21139	119	2	0	4	21076	119	2	0	4	19938	113	2	0	4
			5QM	21802	123	4	0	2	21737	123	4	0	2	20563	116	4	0	2
			5QN	21815	123	4	0	0	21750	123	4	0	0	20575	116	4	0	0
			5QW	20256	114	5	0	4	20195	114	5	0	4	19104	108	5	0	3
			5RW	21334	121	5	0	5	21271	120	5	0	5	20122	114	5	0	5
			5W	21176	120	5	0	3	21113	119	5	0	3	19973	113	5	0	3
C			21125	119	3	0	4	21125	119	3	0	4	19799	112	3	0	4	
FR			21953	124	2	0	2	21888	124	2	0	2	20706	117	2	0	2	
TC			21759	123	2	0	2	21694	123	2	0	2	20523	116	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	210	217.3	2	24102	111	3	0	3	24030	111	3	0	3	22732	105	3	0	3
			3	23859	110	3	0	4	23788	109	3	0	4	22503	104	3	0	4
			4F	24226	111	2	0	4	24153	111	2	0	4	22849	105	2	0	4
			4W	23905	110	3	0	5	23833	110	3	0	5	22546	104	2	0	4
			5QM	24654	113	4	0	2	24581	113	4	0	2	23253	107	4	0	2
			5QN	24669	114	5	0	1	24595	113	5	0	1	23267	107	5	0	0
			5QW	22905	105	5	0	4	22837	105	5	0	4	21604	99	5	0	4
			5RW	24126	111	5	0	5	24053	111	5	0	5	22754	105	5	0	5
			5W	23947	110	5	0	3	23875	110	5	0	3	22586	104	5	0	3
			C	23889	110	3	0	4	23889	110	3	0	4	22389	103	3	0	4
			FR	24825	114	2	0	2	24751	114	2	0	2	23414	108	2	0	2
			TC	24606	113	2	0	2	24532	113	2	0	2	23207	107	2	0	2
	240	238.6	2	26781	112	3	0	4	26701	112	3	0	4	25259	106	3	0	3
			3	26511	111	3	0	4	26432	111	3	0	4	25005	105	3	0	4
			4F	26918	113	2	0	4	26838	112	2	0	4	25389	106	2	0	4
			4W	26562	111	3	0	5	26483	111	3	0	5	25053	105	3	0	5
			5QM	27395	115	4	0	2	27313	114	4	0	2	25838	108	4	0	2
			5QN	27411	115	5	0	1	27329	115	5	0	1	25853	108	5	0	1
			5QW	25451	107	5	0	4	25375	106	5	0	4	24005	101	5	0	4
			5RW	26807	112	5	0	5	26727	112	5	0	5	25284	106	5	0	5
			5W	26609	112	5	0	3	26529	111	5	0	3	25097	105	5	0	3
			C	26544	111	3	0	4	26544	111	3	0	4	24878	104	3	0	4
			FR	27585	116	2	0	2	27502	115	2	0	2	26017	109	2	0	2
			TC	27341	115	2	0	2	27259	114	2	0	2	25787	108	2	0	2
	215	215.0	2	26697	124	3	0	4	26617	124	3	0	4	25180	117	3	0	3
			3	26428	123	3	0	4	26349	123	3	0	4	24926	116	3	0	4
			4F	26834	125	2	0	4	26754	124	2	0	4	25309	118	2	0	4
			4W	26479	123	3	0	5	26400	123	3	0	5	24974	116	3	0	5
			5QM	27309	127	4	0	2	27227	127	4	0	2	25757	120	4	0	2
			5QN	27325	127	5	0	1	27243	127	5	0	1	25772	120	5	0	1
			5QW	25372	118	5	0	4	25296	118	5	0	4	23930	111	5	0	4
			5RW	26723	124	5	0	5	26643	124	5	0	5	25204	117	5	0	5
			5W	26525	123	5	0	3	26446	123	5	0	3	25018	116	5	0	3
C			26461	123	3	0	4	26461	123	3	0	4	24799	115	3	0	4	
FR			27498	128	2	0	2	27416	128	2	0	2	25935	121	2	0	2	
TC			27255	127	2	0	2	27174	126	2	0	2	25706	120	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	250	247.5	2	30249	122	3	0	4	30159	122	3	0	4	28530	115	3	0	4
			3	29944	121	3	0	4	29855	121	3	0	4	28243	114	3	0	4
			4F	30404	123	2	0	5	30313	122	2	0	5	28676	116	2	0	5
			4W	30002	121	3	0	5	29912	121	3	0	5	28297	114	3	0	5
			5QM	30942	125	5	0	3	30849	125	5	0	3	29184	118	5	0	2
			5QN	30961	125	5	0	1	30868	125	5	0	1	29201	118	5	0	1
			5QW	28747	116	5	0	4	28661	116	5	0	4	27113	110	5	0	4
			5RW	30278	122	5	0	5	30188	122	5	0	5	28558	115	5	0	5
			5W	30054	121	5	0	4	29964	121	5	0	4	28346	115	5	0	3
			C	29982	121	3	0	4	29982	121	3	0	4	28099	114	3	0	4
			FR	31157	126	2	0	2	31063	126	2	0	2	29386	119	2	0	2
			TC	30881	125	3	0	3	30789	124	3	0	3	29126	118	3	0	2
	280	274.6	2	32729	119	3	0	4	32631	119	3	0	4	30869	112	3	0	4
			3	32400	118	3	0	5	32303	118	3	0	5	30558	111	3	0	5
			4F	32897	120	2	0	5	32799	119	2	0	5	31028	113	2	0	5
			4W	32462	118	3	0	5	32365	118	3	0	5	30617	112	3	0	5
			5QM	33479	122	5	0	3	33379	122	5	0	3	31577	115	5	0	3
			5QN	33499	122	5	0	1	33399	122	5	0	1	31596	115	5	0	1
			5QW	31104	113	5	0	5	31011	113	5	0	5	29337	107	5	0	4
			5RW	32761	119	5	0	5	32663	119	5	0	5	30899	113	5	0	5
			5W	32519	118	5	0	4	32421	118	5	0	4	30671	112	5	0	4
			C	32440	118	3	0	5	32440	118	3	0	5	30403	111	3	0	5
			FR	33711	123	2	0	2	33610	122	2	0	2	31795	116	2	0	2
			TC	33413	122	3	0	3	33313	121	3	0	3	31515	115	3	0	3
	325	325.0	2	36969	114	3	0	4	36858	113	3	0	4	34868	107	3	0	4
			3	36597	113	3	0	5	36487	112	3	0	5	34517	106	3	0	5
			4F	37159	114	3	0	5	37047	114	3	0	5	35047	108	3	0	5
			4W	36667	113	3	0	5	36557	112	3	0	5	34583	106	3	0	5
			5QM	37816	116	5	0	3	37703	116	5	0	3	35667	110	5	0	3
			5QN	37839	116	5	0	1	37726	116	5	0	1	35688	110	5	0	1
			5QW	35133	108	5	0	5	35028	108	5	0	5	33137	102	5	0	5
			5RW	37005	114	5	0	5	36894	114	5	0	5	34902	107	5	0	5
			5W	36731	113	5	0	4	36621	113	5	0	4	34643	107	5	0	4
C			36642	113	3	0	5	36642	113	3	0	5	34341	106	3	0	5	
FR			38078	117	3	0	2	37964	117	3	0	2	35914	111	3	0	2	
TC			37742	116	3	0	3	37629	116	3	0	3	35597	110	3	0	3	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	365	357.7	2	40171	112	3	0	4	40051	112	3	0	4	37888	106	3	0	4
			3	39767	111	3	0	5	39648	111	3	0	5	37507	105	3	0	5
			4F	40377	113	3	0	5	40257	113	3	0	5	38083	106	3	0	5
			4W	39843	111	3	0	5	39724	111	3	0	5	37579	105	3	0	5
			5QM	41092	115	5	0	3	40969	115	5	0	3	38756	108	5	0	3
			5QN	41117	115	5	0	1	40994	115	5	0	1	38780	108	5	0	1
			5QW	38177	107	5	0	5	38063	106	5	0	5	36007	101	5	0	5
			5RW	40210	112	5	0	5	40090	112	5	0	5	37925	106	5	0	5
			5W	39913	112	5	0	4	39793	111	5	0	4	37644	105	5	0	4
			C	39816	111	3	0	5	39816	111	3	0	5	37316	104	3	0	5
			FR	41377	116	3	0	2	41253	115	3	0	2	39025	109	3	0	2
			TC	41011	115	3	0	3	40888	114	3	0	3	38680	108	3	0	3

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - MICROSTRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
		480	0.61	
	340	120	2.89	347.1
		208	1.67	
		240	1.45	
277		1.25		
347		1.00		
		480	0.72	

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - STRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36	39	120	0.326	39.1
		208	0.188	
		240	0.163	
		277	0.141	
		347	0.113	
		480	0.081	
	55	120	0.473	56.8
		208	0.273	
		240	0.237	
		277	0.205	
		347	0.164	
		480	0.118	
	85	120	0.697	83.6
		208	0.402	
		240	0.348	
		277	0.302	
		347	0.241	
		480	0.174	
	105	120	0.902	108.2
		208	0.520	
		240	0.451	
		277	0.391	
		347	0.312	
		480	0.225	
120	120	1.008	120.9	
	208	0.581		
	240	0.504		
	277	0.436		
	347	0.348		
	480	0.252		

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
72L	115	120	0.934	112.1
		208	0.539	
		240	0.467	
		277	0.405	
		347	0.323	
		480	0.234	
	145	120	1.177	141.2
		208	0.679	
		240	0.588	
		277	0.510	
		347	0.407	
		480	0.294	
	180	120	1.475	177.0
		208	0.851	
		240	0.738	
		277	0.639	
		347	0.510	
		480	0.369	
	210	120	1.811	217.3
		208	1.045	
		240	0.905	
		277	0.784	
		347	0.626	
		480	0.453	
240	120	1.988	238.6	
	208	1.147		
	240	0.994		
	277	0.861		
	347	0.688		
	480	0.497		
108L	215	120	1.792	215.0
		208	1.034	
		240	0.896	
		277	0.776	
		347	0.620	
		480	0.448	
	250	120	2.063	247.5
		208	1.190	
		240	1.031	
		277	0.894	
		347	0.713	
		480	0.516	
	280	120	2.288	274.6
		208	1.320	
		240	1.144	
		277	0.991	
		347	0.791	
		480	0.572	
	325	120	2.708	325.0
		208	1.563	
		240	1.354	
		277	1.173	
		347	0.937	
		480	0.677	
365	120	2.981	357.7	
	208	1.720		
	240	1.490		
	277	1.291		
	347	1.031		
	480	0.745		

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-
3000K	0.977	0.861	0.647
3500K	-	0.900	-
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

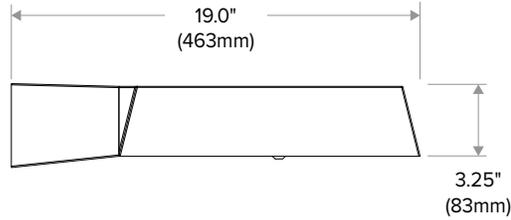
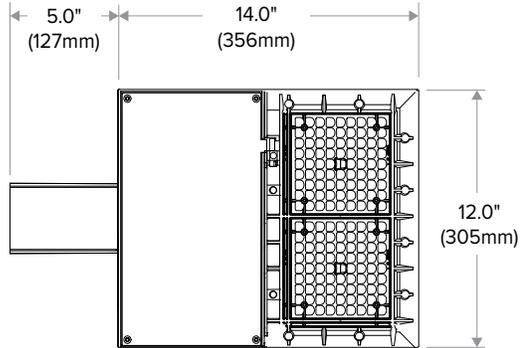
Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	<a href="#">See Amber Spec Sheet</a>		

# RATIO Series

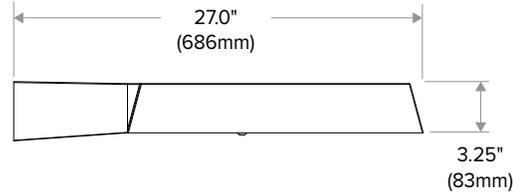
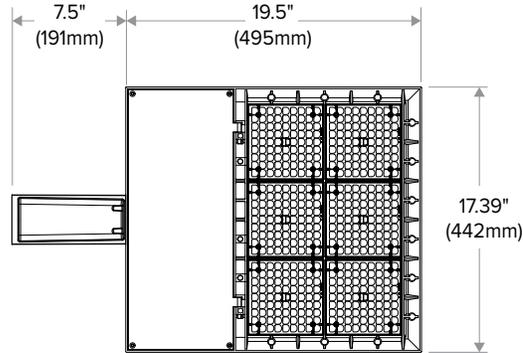
AREA/SITE LIGHTER

## DIMENSIONS

RAR1

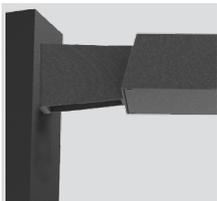


RAR2



## ADDITIONAL INFORMATION

### MOUNTING



**Arm Mount – ASQ:** Fixture ships with integral arm for ease of installation.



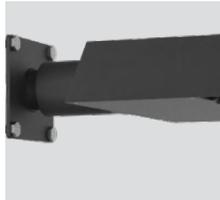
**Knuckle –** Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



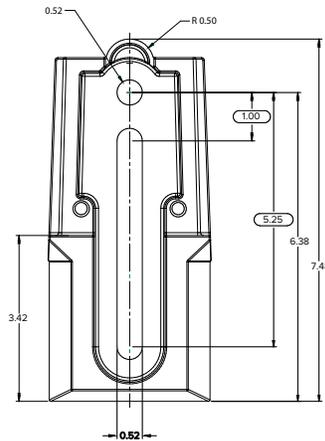
**Universal Mounting –** Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and S2 and B3 drill patterns



**MAF –** Fits 2-3/8" OD arms Roadway applications.



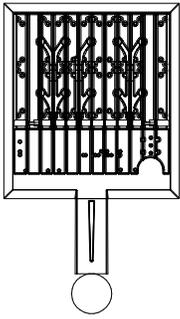
**Wall Mount –** Wall mount bracket designed for building mount applications.



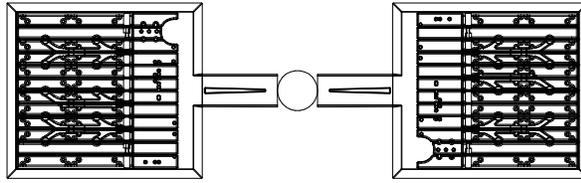
# RATIO Series

AREA/SITE LIGHTER

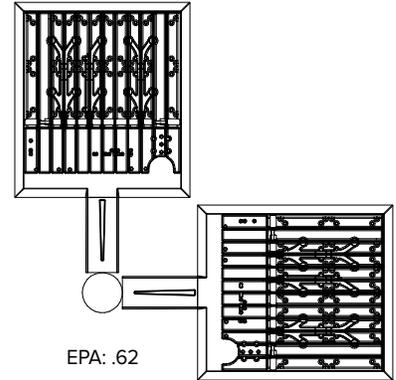
## EPA (RAR1)



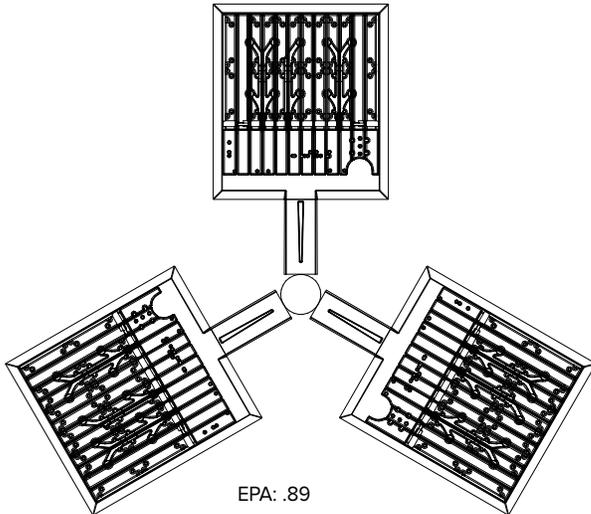
EPA Knuckle Mount 0 degrees: .43  
 EPA Knuckle Mount 30 degrees: .55  
 EPA Arm Mount: 0 degrees .45



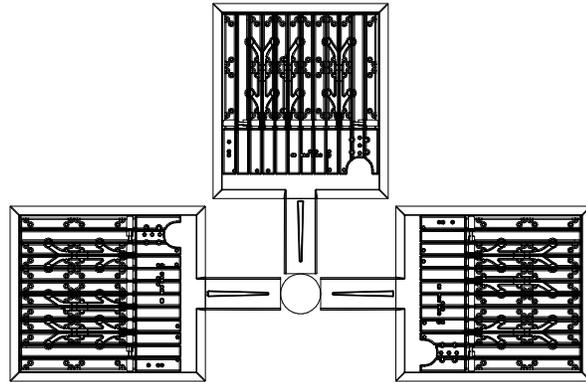
EPA: .99



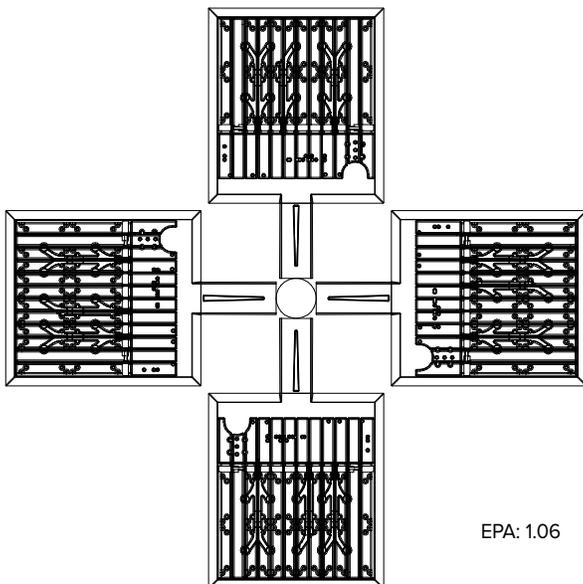
EPA: .62



EPA: .89



EPA: .99

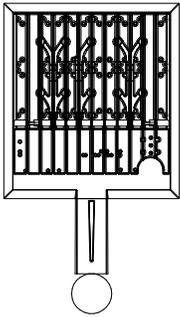


EPA: 1.06

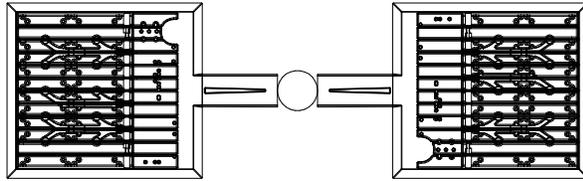
# RATIO Series

AREA/SITE LIGHTER

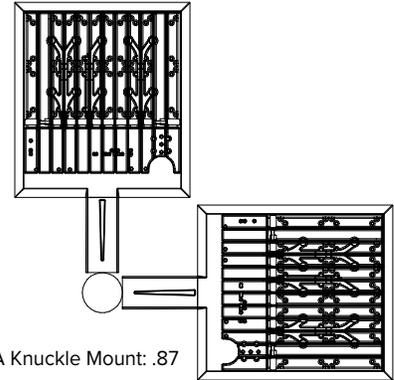
## EPA (RAR2)



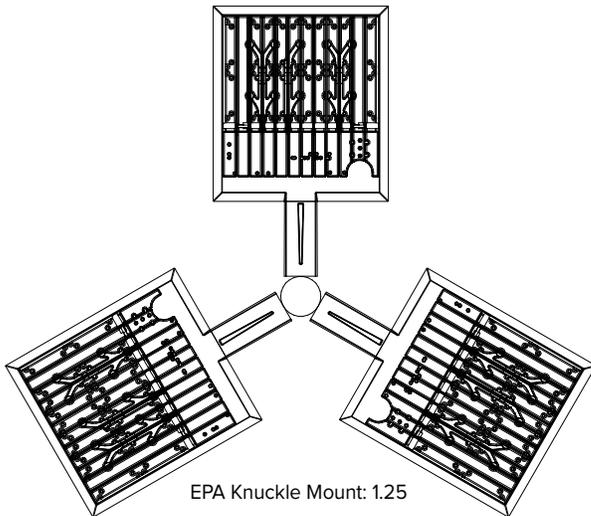
EPA Knuckle Mount: .52  
EPA Arm Mount: .55



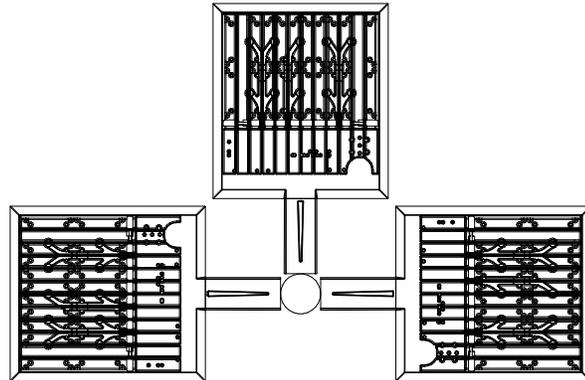
EPA: 1.486



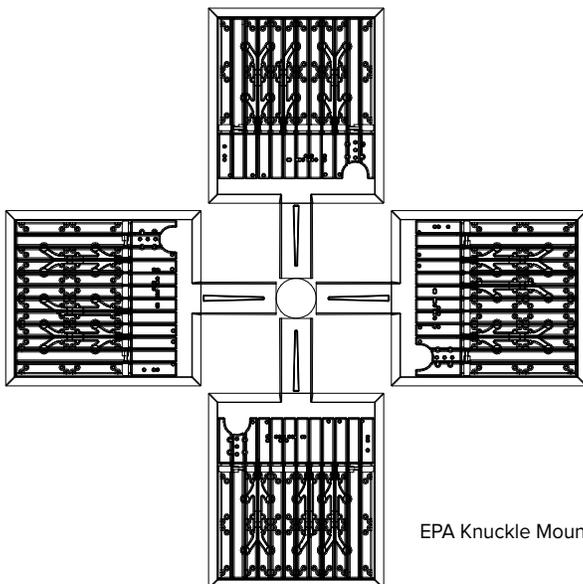
EPA Knuckle Mount: .87



EPA Knuckle Mount: 1.25



EPA Knuckle Mount: 1.41



EPA Knuckle Mount: 1.56

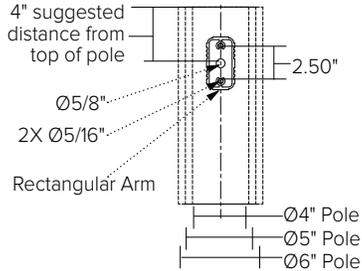
# RATIO Series

AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

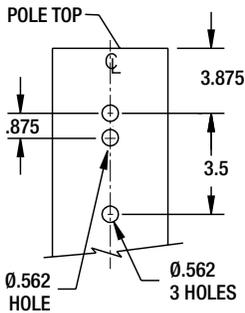
### ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



### UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

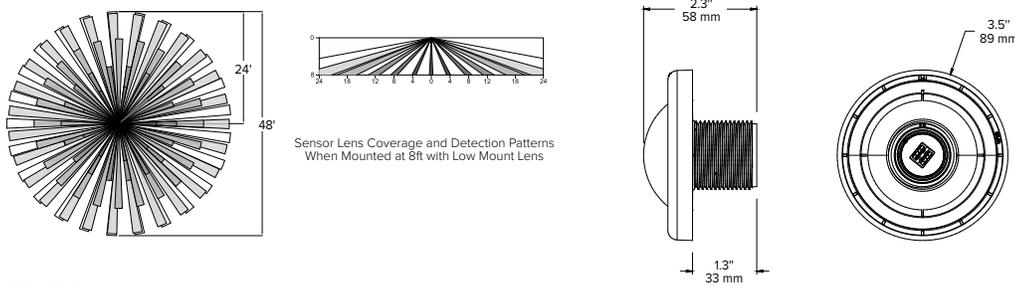
ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

# RATIO Series

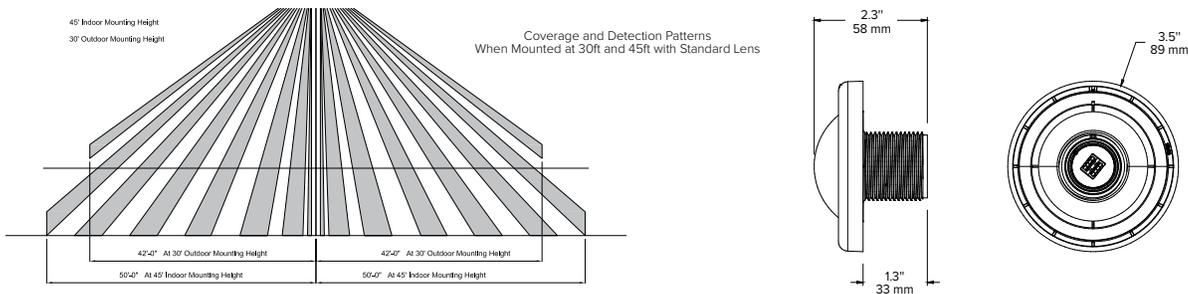
AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

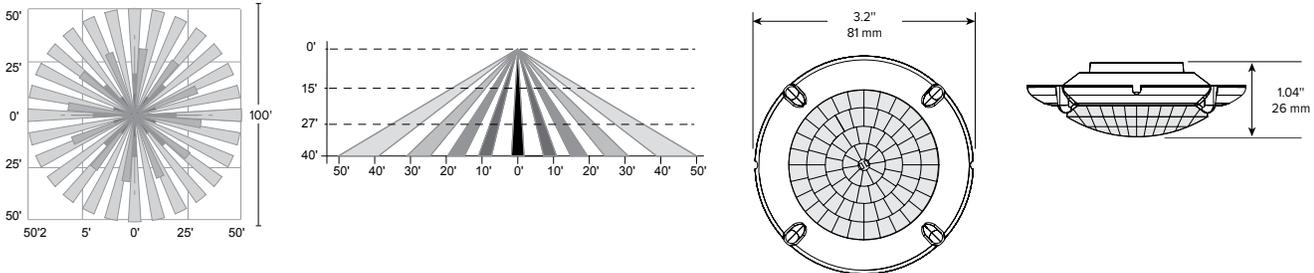
### NXSP-14F



### NXSP-30F



### SCP-40F



### RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. <sup>2</sup> .13m <sup>2</sup>	.56ft. <sup>2</sup> .17m <sup>2</sup>

### RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. <sup>2</sup> .17m <sup>2</sup>	1.48ft. <sup>2</sup> .45m <sup>2</sup>

### SHIPPING

Catalog Number	G.W(kg)/ CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

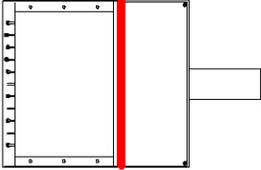
# RATIO Series

AREA/SITE LIGHTER

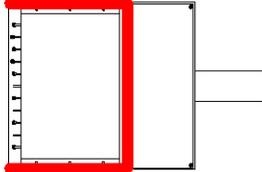
## ADDITIONAL INFORMATION (CONT'D)

### RATIO HOUSE SIDE SHIELD

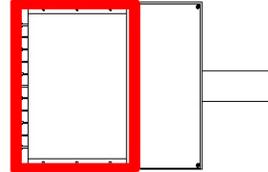
RARx HSS-90-B-xx



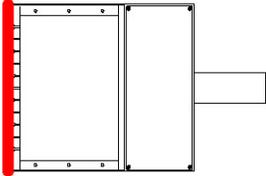
RARx HSS-270-BSS-xx



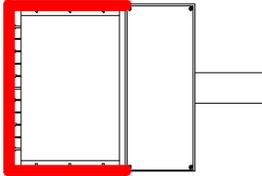
RARx HSS-360-xx



RARx HSS-90-F-xx

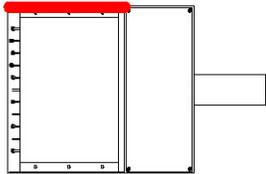


RARx HSS-270-FSS-xx

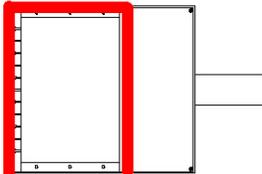


**Note:** Not to be used with Occupancy Sensors as the shield may block the light to the sensor

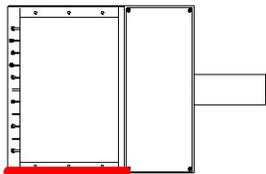
RARx HSS-90-S-xx



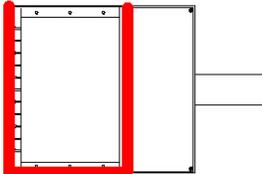
RARx HSS-270-FSB-xx



RARx HSS-90-S-xx



RARx HSS-270-FSB-xx



# RATIO Series

AREA/SITE LIGHTER

## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

## SERVICE PROGRAMS

STOCK QS10

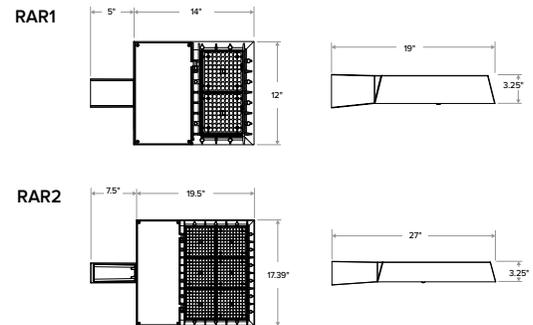
### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

## MICROSTRIKE | STRIKE OPTICS



	Weight	EPA at 0°
RAR1	13.5 lbs / 61 kg	.45ft. <sup>2</sup> / .13m <sup>2</sup>
RAR2	24 lbs / 10.9 kg	.55ft. <sup>2</sup> / .17m <sup>2</sup>

### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to [www.designlights.org](http://www.designlights.org) for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

### WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

 Gray Shading = Service Program  
 Limit of 15 luminaires


## MICRO STRIKE OPTICS - ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXW-BC

CATALOG # \_\_\_\_\_

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Micro Strike	<b>80L-25</b> 25W - 3,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>2</b> IES TYPE II	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>80L-39</b> 39W - 5,200 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>3</b> IES TYPE III	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>80L-50</b> 50W - 6,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>4W</b> IES TYPE IV	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>160L-70</b> 70W - 9,000 Lumens		<b>4F</b> IES TYPE IV Forward		<b>240</b> 240V
	<b>160L-100</b> 100W - 12,000 Lumens		<b>5QW</b> IES TYPE V		<b>277</b> 277V
	<b>160L-115</b> 115W - 15,000 Lumens				<b>347</b> 347V
	<b>160L-135</b> 135W - 18,000 Lumens				<b>480</b> 480V
<b>RAR2</b> Ratio Area Size 2 - Micro Strike	<b>320L-110</b> 110W - 15,000 Lumens				
	<b>320L-140</b> 140W - 18,000 Lumens				
	<b>320L-165</b> 165W - 21,000 Lumens				
	<b>480L-185</b> 185W - 24,000 Lumens				
	<b>480L-210</b> 210W - 27,000 Lumens				
	<b>480L-240</b> 240W - 30,000 Lumens				
	<b>480L-255</b> 255W - 36,000 Lumens				
	<b>480L-295</b> 295W - 42,000 Lumens				
<b>480L-340</b> 340W - 48,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 70 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER STRIKE

## STRIKE OPTIC - ORDERING GUIDE

**Example:** RAR1-36L-39-3K7-2-UNV-ASQ-BLT-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Strike Optics	<b>36L-39</b> 39W - 5,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>FR</b> Auto Front Row	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>36L-55</b> 55W - 7,000 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>2</b> Type 2	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>36L-85</b> 85W - 10,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>3</b> Type 3	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>36L-105</b> 105W - 12,000 Lumens	<b>3K8</b> 3000K, 80 CRI	<b>4F</b> Type 4 Forward		<b>240</b> 240V
	<b>36L-120</b> 120W - 13,000 Lumens	<b>4K8</b> 4000K, 80 CRI	<b>4W</b> Type 4 Wide		<b>277</b> 277V
	<b>72L-115</b> 115W - 14,000 Lumens	<b>5K8</b> 5000K, 80 CRI	<b>5QN</b> Type 5 Square Narrow		<b>347</b> 347V
	<b>72L-145</b> 145W - 17,000 Lumens		<b>5QW</b> Type 5 Square Wide		<b>480</b> 480V
	<b>72L-180</b> 180W - 20,000 Lumens		<b>5QM</b> Type 5 Square Medium		
	<b>72L-210</b> 210W - 24,000 Lumens		<b>5W</b> Type 5 Wide (Round)		
	<b>72L-240</b> 240W - 26,000 Lumens		<b>5RW</b> Type 5 Rectangular		
<b>RAR2</b> Ratio Area Size 2 - Strike Optics	<b>108L-215</b> 215W - 27,000 Lumens		<b>C</b> Corner Optic		
	<b>108L-250</b> 250W - 30,000 Lumens		<b>TC</b> Tennis Court Optic		
	<b>108L-280</b> 280W - 33,000 Lumens				
	<b>108L-325</b> 325W - 37,000 Lumens				
	<b>108L-365</b> 365W - 40,000 Lumens				

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

**Notes:**

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- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
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- 8 BTS and BTSO available for 50 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

## CONTROLS FUNCTIONALITY



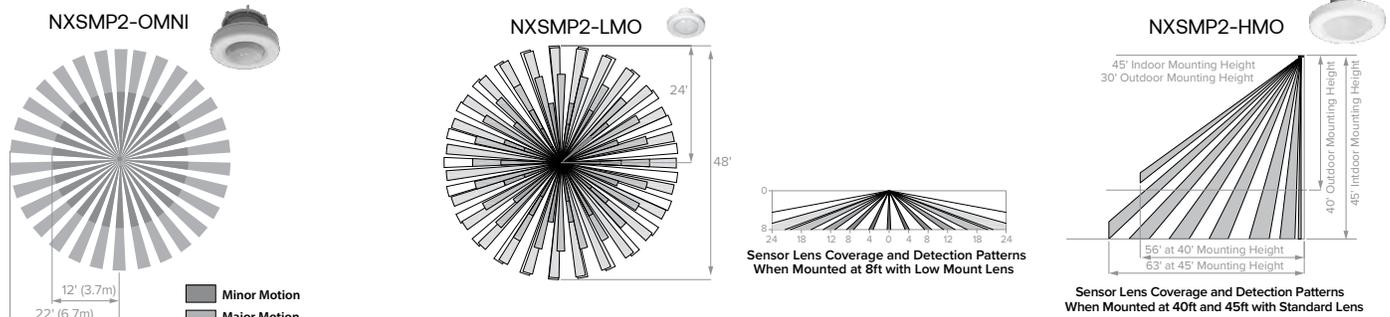
Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components	
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height			
NX Wireless	NXOFM2-1R1D-UNV	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM2-1R1D-UNV
	NXW	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
Independent	BTSO-12F	-	-	-	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
	BTS-14F	-	-	-	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
	BTS-40F	-	-	-	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

## DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	*Passcode Factory Passcode: HubbN3T!	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

## NX WIRELESS COVERAGE PATTERNS



## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US)



Apple App



Google Play

# RATIO Series

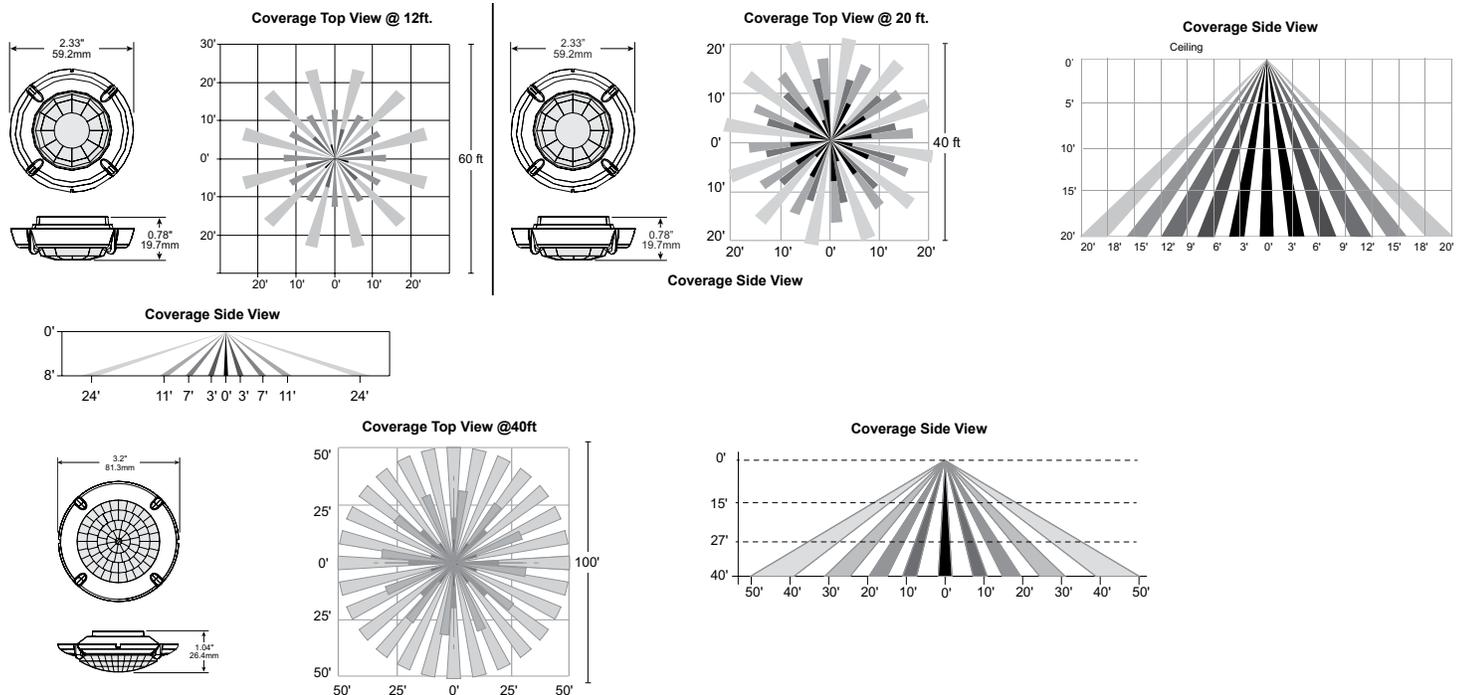
AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

### CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
SCP_F Sensor Control Programmable, sensor range, reference product specification for height selections	-	-	-	✓	✓	✓	✓	-	8ft or 20ft	SCP_F
ADD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD
ADT AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT
7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR
7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 7PR-SC
7PR-TL 7-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	 7PR-TL

### COVERAGE PATTERNS FOR SCP\_F



### PROGRAMMED CONTROLS

#### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

#### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

# RATIO Series

AREA/SITE LIGHTER

## STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

## POLE COMBOS

Catalog Number	Pole	Single or Double Head	Fixture	Lumens	Wattage	Distribution	CCT/CRI	Mounting	Finish
RAR1-100-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
SSSH-20-40-STK	20' Square Straight Steel	Pole Only	Not Included						
SSSH-25-40-STK	25' Square Straight Steel	Pole Only	Not Included						
SSSH-STK-4-KIT		Kit Only	Not Included						

# RATIO Series

AREA/SITE LIGHTER

## CONTROLS

### Control Options

**Standalone**

**SCPREMOTE** Order at least one per project location to program and control

**Networked – Wireless**

**WIR-RME-L** LightGRID+ External Fixture Module<sup>1,2</sup>

**NX Networked – Wireless**

**NXOFM-1R1D-UNV** NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- 1 Works with external networked photosensor
- 2 LightGRID+ Gateway required for system programming

## OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> ACC-O-RAR-ST1-SHLD-BC-36L	Back Light Control for RAR1 Strike 36L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-72L	Back Light Control for RAR2 Strike 72L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-108L	Back Light Control for RAR2 Strike 108L
<input type="checkbox"/> ACC-O-RAR-ST3-SHLD-BC-162L	Back Light Control for RAR3 Strike 162L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-80L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 80L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-160L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 160L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-320L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 320L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-480L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 480L
<input type="checkbox"/> ACC-O-RAR3-SHLD-BC-720L-X <sup>1</sup>	Back Light Control for RAR3 Micro Strike 720L

1 Replace X with distribution type ("2" for Type 2, "3" for Type 3, "4F" for Type 4F, Type "4W" for Type 4W)

## ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface <sup>2</sup>
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles <sup>1,2</sup>
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter <sup>1,2</sup>
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter <sup>2</sup>
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately <sup>2</sup>
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle <sup>2</sup>

1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole

2 Replace "XX" with desired color/paint finish

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

## PERFORMANCE DATA - MICRO STRIKE

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2

RAR2 Performance Data on next page

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - MICROSTRIKE (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	39	39.1	2	5385	138	1	0	1	5369	137	1	0	1	5079	130	1	0	1
			3	5331	136	1	0	2	5315	136	1	0	2	5028	129	1	0	2
			4F	5413	138	1	0	2	5396	137	1	0	2	5105	130	1	0	2
			4W	5341	137	1	0	2	5325	136	1	0	2	5037	129	1	0	2
			5QM	5508	140	2	0	1	5492	140	2	0	1	5195	132	2	0	1
			5QN	5512	140	2	0	0	5495	140	2	0	0	5198	132	2	0	0
			5QW	5118	131	3	0	2	5102	130	3	0	2	4827	123	3	0	2
			5RW	5390	138	3	0	3	5374	137	3	0	3	5084	130	3	0	3
			5W	5350	137	3	0	1	5334	136	3	0	1	5046	129	3	0	1
			C	5002	120	1	0	2	5002	120	1	0	2	5002	128	1	0	2
			FR	5547	141	1	0	1	5530	141	1	0	1	5231	133	1	0	1
			TC	5498	140	1	0	1	5481	140	1	0	1	5185	132	1	0	1
	55	56.8	2	7350	129	1	0	2	7329	129	1	0	2	6933	122	1	0	2
			3	7276	128	1	0	2	7255	128	1	0	2	6863	121	1	0	2
			4F	7388	130	1	0	2	7366	130	1	0	2	6968	123	1	0	2
			4W	7290	128	1	0	3	7269	128	1	0	3	6876	121	1	0	2
			5QM	7519	132	3	0	1	7496	132	3	0	1	7092	125	3	0	1
			5QN	7523	132	3	0	0	7501	132	3	0	0	7096	125	3	0	0
			5QW	6986	123	3	0	2	6965	123	3	0	2	6589	116	3	0	2
			5RW	7358	130	3	0	3	7336	129	3	0	3	6940	122	3	0	3
			5W	7303	129	3	0	2	7281	128	3	0	2	6888	121	3	0	2
			C	6828	113	1	0	2	6828	113	1	0	2	6828	120	1	0	2
			FR	7571	133	1	0	1	7548	133	1	0	1	7141	126	1	0	1
			TC	7504	132	1	0	1	7482	132	1	0	1	7078	125	1	0	1
	85	83.6	2	10081	121	2	0	2	10051	120	2	0	2	9508	114	2	0	2
			3	9979	119	2	0	2	9949	119	2	0	2	9412	113	1	0	2
			4F	10132	121	1	0	2	10102	121	1	0	2	9557	114	1	0	2
			4W	9998	120	1	0	3	9968	119	1	0	3	9430	113	1	0	3
			5QM	10312	123	3	0	1	10281	123	3	0	1	9726	116	3	0	1
			5QN	10318	123	3	0	0	10287	123	3	0	0	9732	116	3	0	0
			5QW	9580	115	4	0	3	9552	114	4	0	3	9036	108	4	0	3
			5RW	10090	121	4	0	4	10060	120	4	0	4	9517	114	3	0	3
			5W	10016	120	4	0	2	9986	119	4	0	2	9447	113	3	0	2
			C	9364	105	2	0	2	9364	105	2	0	2	9364	112	2	0	2
			FR	10383	124	1	0	1	10352	124	1	0	1	9793	117	1	0	1
			TC	10291	123	1	0	1	10261	123	1	0	1	9707	116	1	0	1

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	105	108.2	2	12321	114	2	0	2	12284	114	2	0	2	11621	107	2	0	2
			3	12197	113	2	0	3	12160	112	2	0	3	11504	106	2	0	3
			4F	12384	114	1	0	3	12347	114	1	0	3	11680	108	1	0	2
			4W	12220	113	2	0	3	12183	113	2	0	3	11526	107	1	0	3
			5QM	12603	116	3	0	2	12565	116	3	0	2	11887	110	3	0	2
			5QN	12611	117	3	0	0	12573	116	3	0	0	11894	110	3	0	0
			5QW	11709	108	4	0	3	11674	108	4	0	3	11044	102	4	0	3
			5RW	12333	114	4	0	4	12296	114	4	0	4	11632	108	4	0	4
			5W	12241	113	4	0	2	12205	113	4	0	2	11546	107	4	0	2
			C	11445	99	2	0	2	11445	99	2	0	2	11445	106	2	0	2
			FR	12690	117	1	0	1	12653	117	1	0	1	11969	111	1	0	1
	TC	12578	116	1	0	2	12541	116	1	0	2	11864	110	1	0	2		
	120	120.9	2	13398	111	2	0	2	13358	110	2	0	2	12636	105	2	0	2
			3	13263	110	2	0	3	13223	109	2	0	3	12509	103	2	0	3
			4F	13467	111	1	0	3	13426	111	1	0	3	12701	105	1	0	3
			4W	13288	110	2	0	3	13248	110	2	0	3	12533	104	2	0	3
			5QM	13705	113	3	0	2	13664	113	3	0	2	12926	107	3	0	2
			5QN	13713	113	4	0	0	13672	113	4	0	0	12934	107	3	0	0
			5QW	12733	105	4	0	3	12695	105	4	0	3	12009	99	4	0	3
			5RW	13411	111	4	0	4	13371	111	4	0	4	12649	105	4	0	4
			5W	13312	110	4	0	2	13272	110	4	0	2	12555	104	4	0	2
			C	12446	96	2	0	2	12446	96	2	0	2	12446	103	2	0	2
FR			13800	114	1	0	1	13758	114	1	0	1	13016	108	1	0	1	
TC	13678	113	1	0	2	13637	113	1	0	2	12901	107	1	0	2			

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	115	112.1	2	14701	131	2	0	2	14657	131	2	0	2	13866	124	2	0	2
			3	14553	130	2	0	3	14509	129	2	0	3	13726	122	2	0	3
			4F	14776	132	1	0	3	14732	131	1	0	3	13937	124	1	0	3
			4W	14581	130	2	0	3	14537	130	2	0	3	13752	123	2	0	3
			5QM	15038	134	3	0	2	14993	134	3	0	2	14183	127	3	0	2
			5QN	15047	134	4	0	0	15002	134	4	0	0	14192	127	4	0	0
			5QW	13971	125	4	0	3	13929	124	4	0	3	13177	118	4	0	3
			5RW	14715	131	4	0	4	14671	131	4	0	4	13879	124	4	0	4
			5W	14606	130	4	0	2	14563	130	4	0	2	13776	123	4	0	2
			C	14571	130	2	0	3	14571	130	2	0	3	13656	122	2	0	3
			FR	15142	135	2	0	1	15097	135	2	0	1	14282	127	1	0	1
			TC	15008	134	2	0	2	14963	133	2	0	2	14155	126	1	0	2
	145	141.2	2	17797	126	3	0	3	17744	126	3	0	3	16786	119	3	0	3
			3	17618	125	2	0	3	17565	124	2	0	3	16617	118	2	0	3
			4F	17889	127	2	0	3	17835	126	2	0	3	16872	119	2	0	3
			4W	17652	125	2	0	4	17599	125	2	0	4	16649	118	2	0	4
			5QM	18205	129	4	0	2	18151	129	4	0	2	17170	122	4	0	2
			5QN	18216	129	4	0	0	18162	129	4	0	0	17181	122	4	0	0
			5QW	16914	120	4	0	3	16863	119	4	0	3	15953	113	4	0	3
			5RW	17815	126	4	0	4	17761	126	4	0	4	16802	119	4	0	4
			5W	17683	125	4	0	2	17630	125	4	0	2	16678	118	4	0	2
			C	17640	125	3	0	3	17640	125	3	0	3	16532	117	3	0	3
			FR	18331	130	2	0	2	18276	129	2	0	2	17290	122	2	0	2
			TC	18169	129	2	0	2	18115	128	2	0	2	17137	121	2	0	2
	180	177.0	2	21314	120	3	0	3	21250	120	3	0	3	20102	114	3	0	3
			3	21099	119	3	0	4	21036	119	3	0	4	19900	112	3	0	4
			4F	21423	121	2	0	4	21359	121	2	0	4	20206	114	2	0	4
			4W	21139	119	2	0	4	21076	119	2	0	4	19938	113	2	0	4
			5QM	21802	123	4	0	2	21737	123	4	0	2	20563	116	4	0	2
			5QN	21815	123	4	0	0	21750	123	4	0	0	20575	116	4	0	0
			5QW	20256	114	5	0	4	20195	114	5	0	4	19104	108	5	0	3
			5RW	21334	121	5	0	5	21271	120	5	0	5	20122	114	5	0	5
			5W	21176	120	5	0	3	21113	119	5	0	3	19973	113	5	0	3
C			21125	119	3	0	4	21125	119	3	0	4	19799	112	3	0	4	
FR			21953	124	2	0	2	21888	124	2	0	2	20706	117	2	0	2	
TC			21759	123	2	0	2	21694	123	2	0	2	20523	116	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	210	217.3	2	24102	111	3	0	3	24030	111	3	0	3	22732	105	3	0	3
			3	23859	110	3	0	4	23788	109	3	0	4	22503	104	3	0	4
			4F	24226	111	2	0	4	24153	111	2	0	4	22849	105	2	0	4
			4W	23905	110	3	0	5	23833	110	3	0	5	22546	104	2	0	4
			5QM	24654	113	4	0	2	24581	113	4	0	2	23253	107	4	0	2
			5QN	24669	114	5	0	1	24595	113	5	0	1	23267	107	5	0	0
			5QW	22905	105	5	0	4	22837	105	5	0	4	21604	99	5	0	4
			5RW	24126	111	5	0	5	24053	111	5	0	5	22754	105	5	0	5
			5W	23947	110	5	0	3	23875	110	5	0	3	22586	104	5	0	3
			C	23889	110	3	0	4	23889	110	3	0	4	22389	103	3	0	4
			FR	24825	114	2	0	2	24751	114	2	0	2	23414	108	2	0	2
			TC	24606	113	2	0	2	24532	113	2	0	2	23207	107	2	0	2
	240	238.6	2	26781	112	3	0	4	26701	112	3	0	4	25259	106	3	0	3
			3	26511	111	3	0	4	26432	111	3	0	4	25005	105	3	0	4
			4F	26918	113	2	0	4	26838	112	2	0	4	25389	106	2	0	4
			4W	26562	111	3	0	5	26483	111	3	0	5	25053	105	3	0	5
			5QM	27395	115	4	0	2	27313	114	4	0	2	25838	108	4	0	2
			5QN	27411	115	5	0	1	27329	115	5	0	1	25853	108	5	0	1
			5QW	25451	107	5	0	4	25375	106	5	0	4	24005	101	5	0	4
			5RW	26807	112	5	0	5	26727	112	5	0	5	25284	106	5	0	5
			5W	26609	112	5	0	3	26529	111	5	0	3	25097	105	5	0	3
			C	26544	111	3	0	4	26544	111	3	0	4	24878	104	3	0	4
			FR	27585	116	2	0	2	27502	115	2	0	2	26017	109	2	0	2
			TC	27341	115	2	0	2	27259	114	2	0	2	25787	108	2	0	2
	215	215.0	2	26697	124	3	0	4	26617	124	3	0	4	25180	117	3	0	3
			3	26428	123	3	0	4	26349	123	3	0	4	24926	116	3	0	4
			4F	26834	125	2	0	4	26754	124	2	0	4	25309	118	2	0	4
			4W	26479	123	3	0	5	26400	123	3	0	5	24974	116	3	0	5
			5QM	27309	127	4	0	2	27227	127	4	0	2	25757	120	4	0	2
			5QN	27325	127	5	0	1	27243	127	5	0	1	25772	120	5	0	1
			5QW	25372	118	5	0	4	25296	118	5	0	4	23930	111	5	0	4
			5RW	26723	124	5	0	5	26643	124	5	0	5	25204	117	5	0	5
			5W	26525	123	5	0	3	26446	123	5	0	3	25018	116	5	0	3
C			26461	123	3	0	4	26461	123	3	0	4	24799	115	3	0	4	
FR			27498	128	2	0	2	27416	128	2	0	2	25935	121	2	0	2	
TC			27255	127	2	0	2	27174	126	2	0	2	25706	120	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	250	247.5	2	30249	122	3	0	4	30159	122	3	0	4	28530	115	3	0	4
			3	29944	121	3	0	4	29855	121	3	0	4	28243	114	3	0	4
			4F	30404	123	2	0	5	30313	122	2	0	5	28676	116	2	0	5
			4W	30002	121	3	0	5	29912	121	3	0	5	28297	114	3	0	5
			5QM	30942	125	5	0	3	30849	125	5	0	3	29184	118	5	0	2
			5QN	30961	125	5	0	1	30868	125	5	0	1	29201	118	5	0	1
			5QW	28747	116	5	0	4	28661	116	5	0	4	27113	110	5	0	4
			5RW	30278	122	5	0	5	30188	122	5	0	5	28558	115	5	0	5
			5W	30054	121	5	0	4	29964	121	5	0	4	28346	115	5	0	3
			C	29982	121	3	0	4	29982	121	3	0	4	28099	114	3	0	4
			FR	31157	126	2	0	2	31063	126	2	0	2	29386	119	2	0	2
			TC	30881	125	3	0	3	30789	124	3	0	3	29126	118	3	0	2
	280	274.6	2	32729	119	3	0	4	32631	119	3	0	4	30869	112	3	0	4
			3	32400	118	3	0	5	32303	118	3	0	5	30558	111	3	0	5
			4F	32897	120	2	0	5	32799	119	2	0	5	31028	113	2	0	5
			4W	32462	118	3	0	5	32365	118	3	0	5	30617	112	3	0	5
			5QM	33479	122	5	0	3	33379	122	5	0	3	31577	115	5	0	3
			5QN	33499	122	5	0	1	33399	122	5	0	1	31596	115	5	0	1
			5QW	31104	113	5	0	5	31011	113	5	0	5	29337	107	5	0	4
			5RW	32761	119	5	0	5	32663	119	5	0	5	30899	113	5	0	5
			5W	32519	118	5	0	4	32421	118	5	0	4	30671	112	5	0	4
			C	32440	118	3	0	5	32440	118	3	0	5	30403	111	3	0	5
			FR	33711	123	2	0	2	33610	122	2	0	2	31795	116	2	0	2
			TC	33413	122	3	0	3	33313	121	3	0	3	31515	115	3	0	3
	325	325.0	2	36969	114	3	0	4	36858	113	3	0	4	34868	107	3	0	4
			3	36597	113	3	0	5	36487	112	3	0	5	34517	106	3	0	5
			4F	37159	114	3	0	5	37047	114	3	0	5	35047	108	3	0	5
			4W	36667	113	3	0	5	36557	112	3	0	5	34583	106	3	0	5
			5QM	37816	116	5	0	3	37703	116	5	0	3	35667	110	5	0	3
			5QN	37839	116	5	0	1	37726	116	5	0	1	35688	110	5	0	1
			5QW	35133	108	5	0	5	35028	108	5	0	5	33137	102	5	0	5
			5RW	37005	114	5	0	5	36894	114	5	0	5	34902	107	5	0	5
			5W	36731	113	5	0	4	36621	113	5	0	4	34643	107	5	0	4
C			36642	113	3	0	5	36642	113	3	0	5	34341	106	3	0	5	
FR			38078	117	3	0	2	37964	117	3	0	2	35914	111	3	0	2	
TC			37742	116	3	0	3	37629	116	3	0	3	35597	110	3	0	3	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	365	357.7	2	40171	112	3	0	4	40051	112	3	0	4	37888	106	3	0	4
			3	39767	111	3	0	5	39648	111	3	0	5	37507	105	3	0	5
			4F	40377	113	3	0	5	40257	113	3	0	5	38083	106	3	0	5
			4W	39843	111	3	0	5	39724	111	3	0	5	37579	105	3	0	5
			5QM	41092	115	5	0	3	40969	115	5	0	3	38756	108	5	0	3
			5QN	41117	115	5	0	1	40994	115	5	0	1	38780	108	5	0	1
			5QW	38177	107	5	0	5	38063	106	5	0	5	36007	101	5	0	5
			5RW	40210	112	5	0	5	40090	112	5	0	5	37925	106	5	0	5
			5W	39913	112	5	0	4	39793	111	5	0	4	37644	105	5	0	4
			C	39816	111	3	0	5	39816	111	3	0	5	37316	104	3	0	5
			FR	41377	116	3	0	2	41253	115	3	0	2	39025	109	3	0	2
			TC	41011	115	3	0	3	40888	114	3	0	3	38680	108	3	0	3

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - MICROSTRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
		480	0.61	
	340	120	2.89	347.1
		208	1.67	
		240	1.45	
277		1.25		
347		1.00		
		480	0.72	

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - STRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36	39	120	0.326	39.1
		208	0.188	
		240	0.163	
		277	0.141	
		347	0.113	
		480	0.081	
	55	120	0.473	56.8
		208	0.273	
		240	0.237	
		277	0.205	
		347	0.164	
		480	0.118	
	85	120	0.697	83.6
		208	0.402	
		240	0.348	
		277	0.302	
		347	0.241	
		480	0.174	
	105	120	0.902	108.2
		208	0.520	
		240	0.451	
		277	0.391	
		347	0.312	
		480	0.225	
120	120	1.008	120.9	
	208	0.581		
	240	0.504		
	277	0.436		
	347	0.348		
	480	0.252		

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
72L	115	120	0.934	112.1
		208	0.539	
		240	0.467	
		277	0.405	
		347	0.323	
		480	0.234	
	145	120	1.177	141.2
		208	0.679	
		240	0.588	
		277	0.510	
		347	0.407	
		480	0.294	
	180	120	1.475	177.0
		208	0.851	
		240	0.738	
		277	0.639	
		347	0.510	
		480	0.369	
	210	120	1.811	217.3
		208	1.045	
		240	0.905	
		277	0.784	
		347	0.626	
		480	0.453	
240	120	1.988	238.6	
	208	1.147		
	240	0.994		
	277	0.861		
	347	0.688		
	480	0.497		
108L	215	120	1.792	215.0
		208	1.034	
		240	0.896	
		277	0.776	
		347	0.620	
		480	0.448	
	250	120	2.063	247.5
		208	1.190	
		240	1.031	
		277	0.894	
		347	0.713	
		480	0.516	
	280	120	2.288	274.6
		208	1.320	
		240	1.144	
		277	0.991	
		347	0.791	
		480	0.572	
	325	120	2.708	325.0
		208	1.563	
		240	1.354	
		277	1.173	
		347	0.937	
		480	0.677	
365	120	2.981	357.7	
	208	1.720		
	240	1.490		
	277	1.291		
	347	1.031		
	480	0.745		

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-
3000K	0.977	0.861	0.647
3500K	-	0.900	-
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

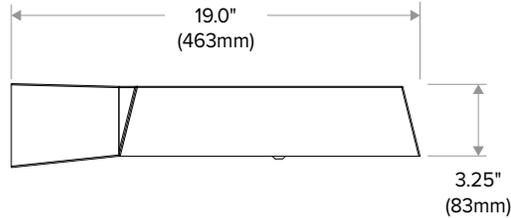
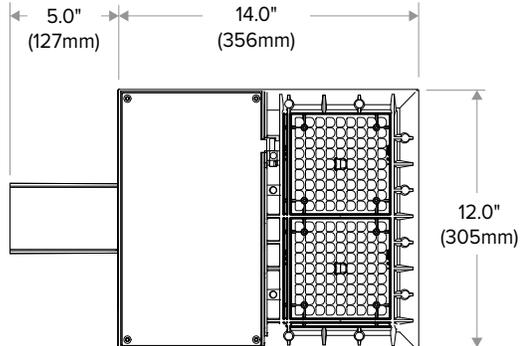
Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	<a href="#">See Amber Spec Sheet</a>		

# RATIO Series

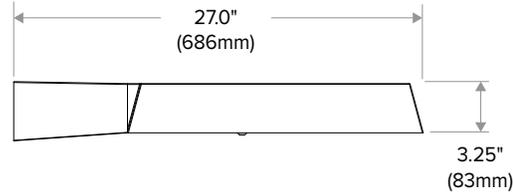
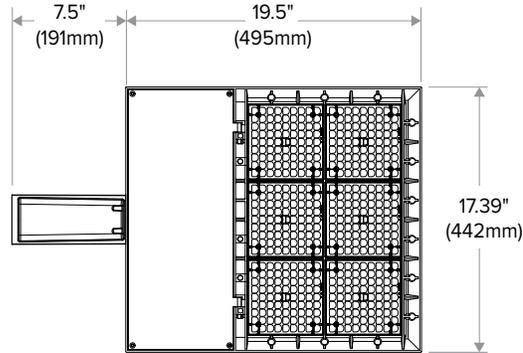
AREA/SITE LIGHTER

## DIMENSIONS

RAR1

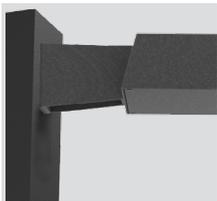


RAR2



## ADDITIONAL INFORMATION

### MOUNTING



**Arm Mount – ASQ:** Fixture ships with integral arm for ease of installation.



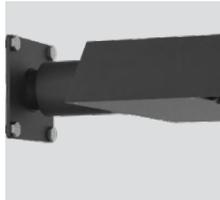
**Knuckle –** Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



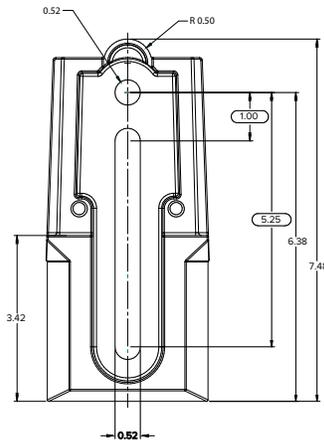
**Universal Mounting –** Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and S2 and B3 drill patterns



**MAF –** Fits 2-3/8" OD arms Roadway applications.



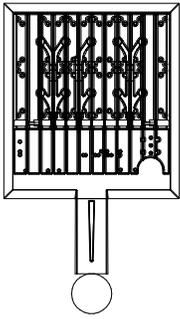
**Wall Mount –** Wall mount bracket designed for building mount applications.



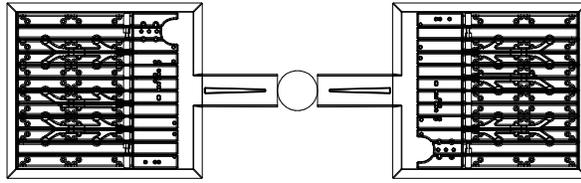
# RATIO Series

AREA/SITE LIGHTER

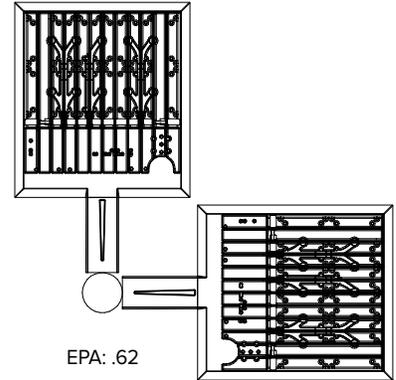
## EPA (RAR1)



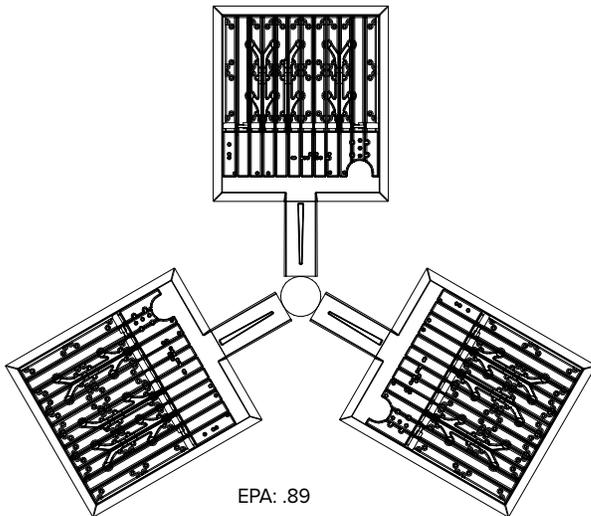
EPA Knuckle Mount 0 degrees: .43  
 EPA Knuckle Mount 30 degrees: .55  
 EPA Arm Mount: 0 degrees .45



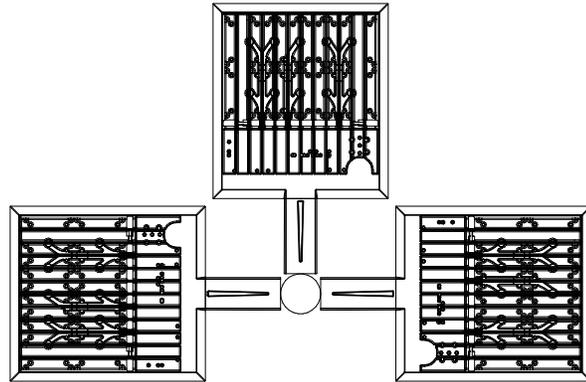
EPA: .99



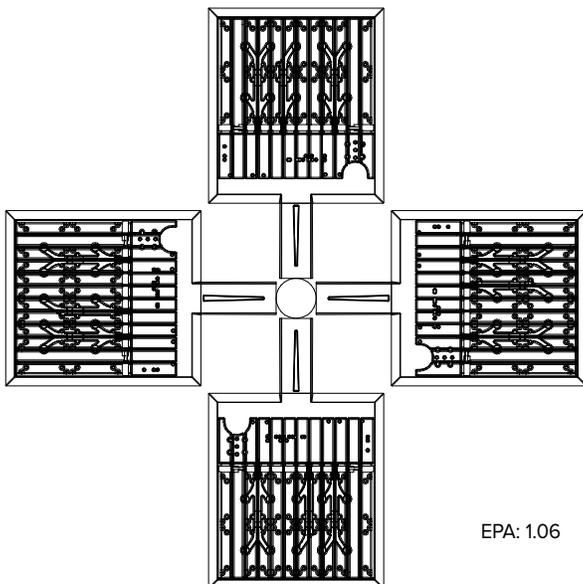
EPA: .62



EPA: .89



EPA: .99

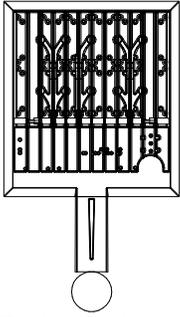


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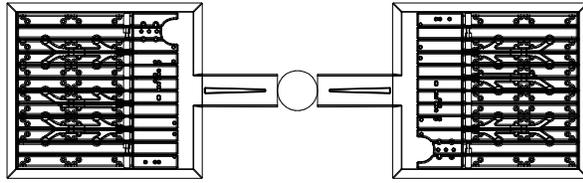
# RATIO Series

AREA/SITE LIGHTER

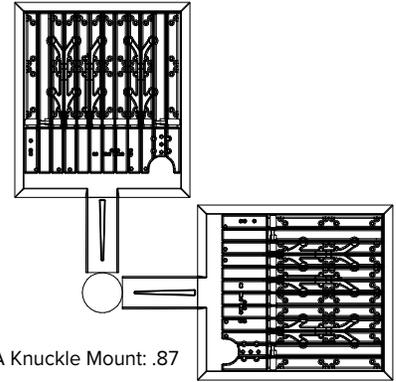
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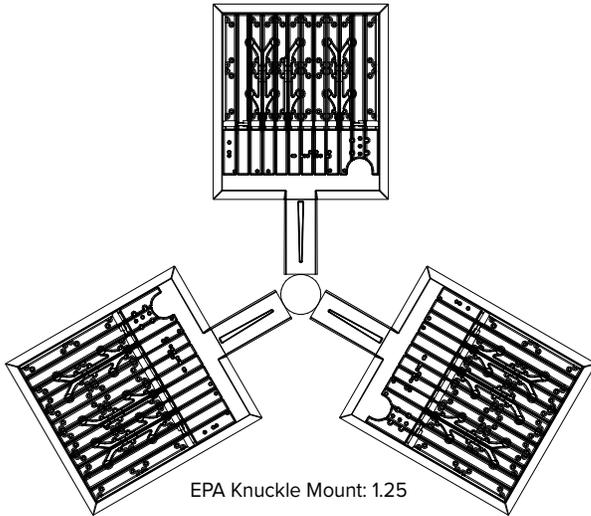
EPA Knuckle Mount: .52  
EPA Arm Mount: .55



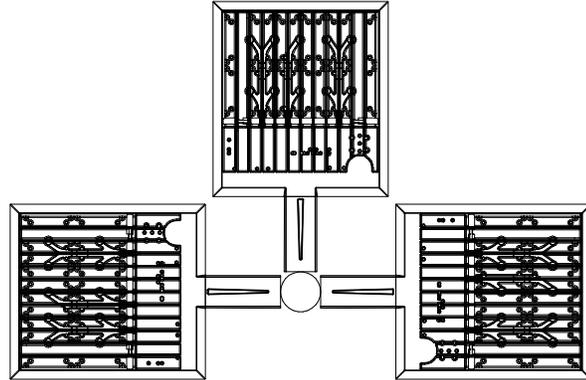
EPA: 1.486



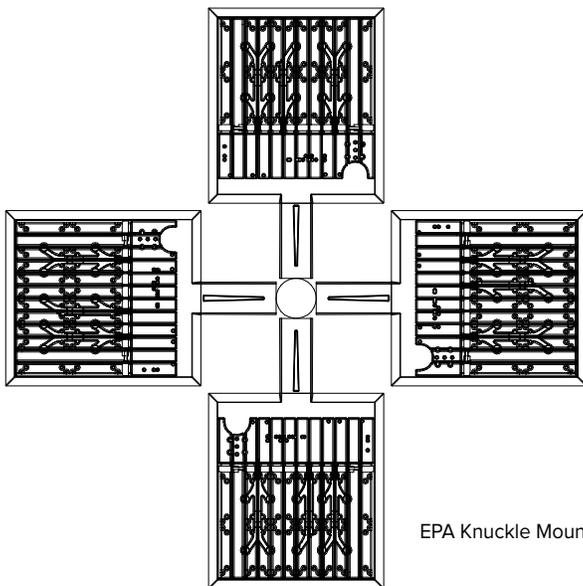
EPA Knuckle Mount: .87



EPA Knuckle Mount: 1.25



EPA Knuckle Mount: 1.41



EPA Knuckle Mount: 1.56

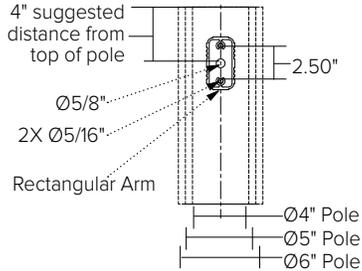
# RATIO Series

AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

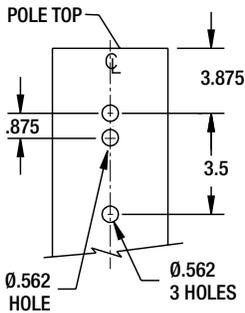
### ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



### UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

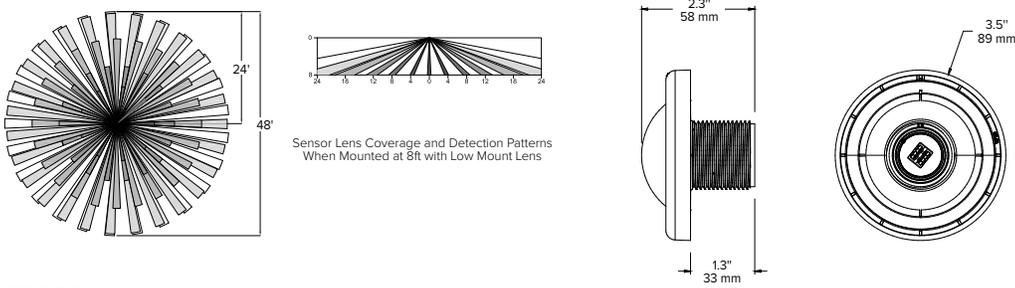
ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

# RATIO Series

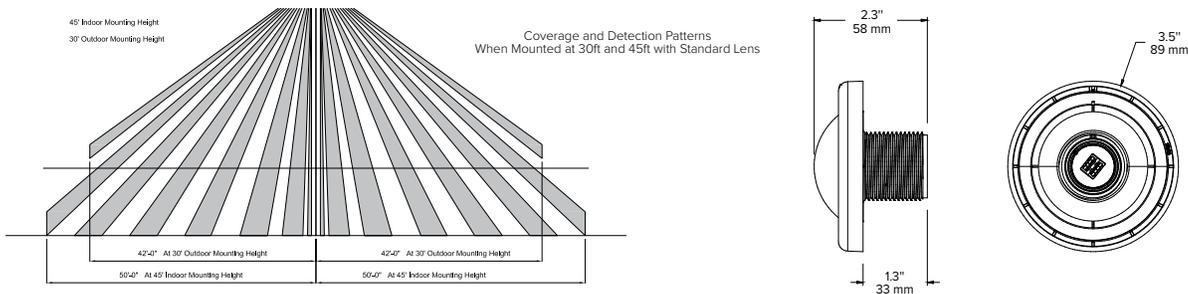
AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

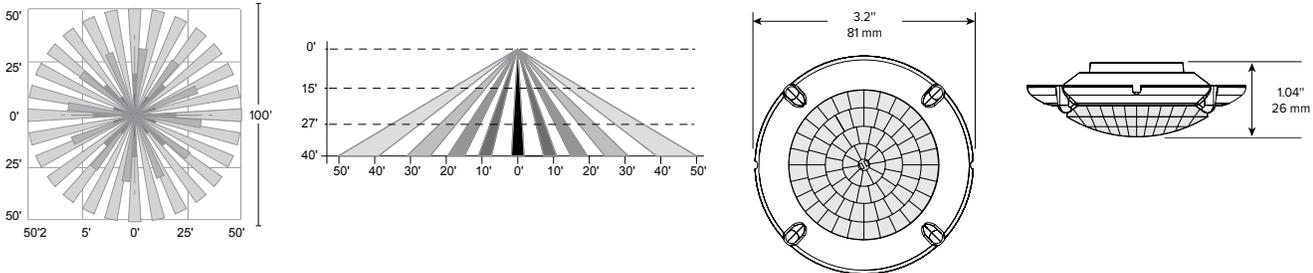
### NXSP-14F



### NXSP-30F



### SCP-40F



### RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. <sup>2</sup> .13m <sup>2</sup>	.56ft. <sup>2</sup> .17m <sup>2</sup>

### RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. <sup>2</sup> .17m <sup>2</sup>	1.48ft. <sup>2</sup> .45m <sup>2</sup>

### SHIPPING

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

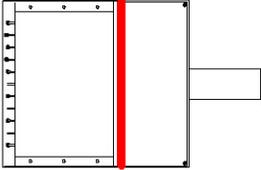
# RATIO Series

AREA/SITE LIGHTER

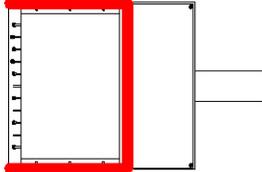
## ADDITIONAL INFORMATION (CONT'D)

### RATIO HOUSE SIDE SHIELD

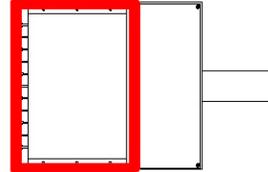
RARx HSS-90-B-xx



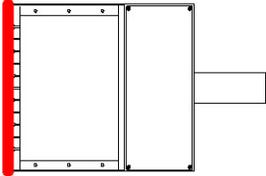
RARx HSS-270-BSS-xx



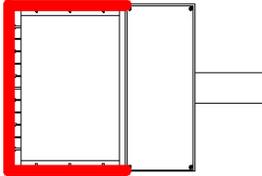
RARx HSS-360-xx



RARx HSS-90-F-xx

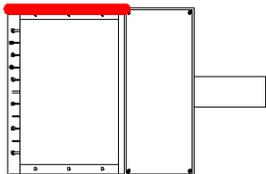


RARx HSS-270-FSS-xx

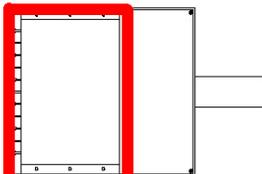


**Note:** Not to be used with Occupancy Sensors as the shield may block the light to the sensor

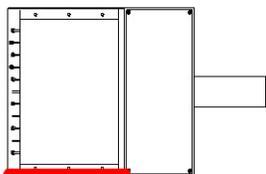
RARx HSS-90-S-xx



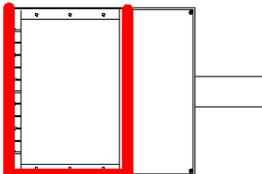
RARx HSS-270-FSB-xx



RARx HSS-90-S-xx



RARx HSS-270-FSB-xx



# RATIO Series

AREA/SITE LIGHTER

## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



## CONTROL TECHNOLOGY



## SERVICE PROGRAMS

**STOCK QS10**

## SPECIFICATIONS

### CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

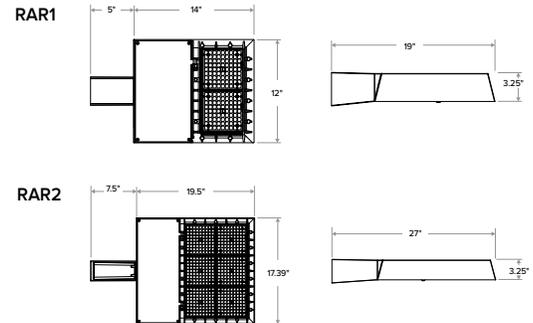
### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

## MICROSTRIKE | STRIKE OPTICS



	Weight	EPA at 0°
RAR1	13.5 lbs / 61 kg	.45ft. <sup>2</sup> / .13m <sup>2</sup>
RAR2	24 lbs / 10.9 kg	.55ft. <sup>2</sup> / .17m <sup>2</sup>

### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to [www.designlights.org](http://www.designlights.org) for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

### WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

 Gray Shading = Service Program  
 Limit of 15 luminaires


## MICRO STRIKE OPTICS - ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXW-BC

CATALOG # \_\_\_\_\_

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Micro Strike	<b>80L-25</b> 25W - 3,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>2</b> IES TYPE II	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>80L-39</b> 39W - 5,200 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>3</b> IES TYPE III	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>80L-50</b> 50W - 6,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>4W</b> IES TYPE IV	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>160L-70</b> 70W - 9,000 Lumens		<b>4F</b> IES TYPE IV Forward		<b>240</b> 240V
	<b>160L-100</b> 100W - 12,000 Lumens		<b>5QW</b> IES TYPE V		<b>277</b> 277V
	<b>160L-115</b> 115W - 15,000 Lumens				<b>347</b> 347V
	<b>160L-135</b> 135W - 18,000 Lumens				<b>480</b> 480V
<b>RAR2</b> Ratio Area Size 2 - Micro Strike	<b>320L-110</b> 110W - 15,000 Lumens				
	<b>320L-140</b> 140W - 18,000 Lumens				
	<b>320L-165</b> 165W - 21,000 Lumens				
	<b>480L-185</b> 185W - 24,000 Lumens				
	<b>480L-210</b> 210W - 27,000 Lumens				
	<b>480L-240</b> 240W - 30,000 Lumens				
	<b>480L-255</b> 255W - 36,000 Lumens				
	<b>480L-295</b> 295W - 42,000 Lumens				
<b>480L-340</b> 340W - 48,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 70 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER STRIKE

## STRIKE OPTIC - ORDERING GUIDE

Example: RAR1-36L-39-3K7-2-UNV-ASQ-BLT-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Strike Optics	<b>36L-39</b> 39W - 5,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>FR</b> Auto Front Row	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>36L-55</b> 55W - 7,000 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>2</b> Type 2	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>36L-85</b> 85W - 10,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>3</b> Type 3	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>36L-105</b> 105W - 12,000 Lumens	<b>3K8</b> 3000K, 80 CRI	<b>4F</b> Type 4 Forward		<b>240</b> 240V
	<b>36L-120</b> 120W - 13,000 Lumens	<b>4K8</b> 4000K, 80 CRI	<b>4W</b> Type 4 Wide		<b>277</b> 277V
	<b>72L-115</b> 115W - 14,000 Lumens	<b>5K8</b> 5000K, 80 CRI	<b>5QN</b> Type 5 Square Narrow		<b>347</b> 347V
	<b>72L-145</b> 145W - 17,000 Lumens		<b>5QW</b> Type 5 Square Wide		<b>480</b> 480V
	<b>RAR2</b> Ratio Area Size 2 - Strike Optics	<b>72L-180</b> 180W - 20,000 Lumens		<b>5QM</b> Type 5 Square Medium	
<b>72L-210</b> 210W - 24,000 Lumens			<b>5W</b> Type 5 Wide (Round)		
<b>72L-240</b> 240W - 26,000 Lumens			<b>5RW</b> Type 5 Rectangular		
<b>108L-215</b> 215W - 27,000 Lumens			<b>C</b> Corner Optic		
<b>108L-250</b> 250W - 30,000 Lumens			<b>TC</b> Tennis Court Optic		
<b>108L-280</b> 280W - 33,000 Lumens					
<b>108L-325</b> 325W - 37,000 Lumens					
<b>108L-365</b> 365W - 40,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 50 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

## CONTROLS FUNCTIONALITY



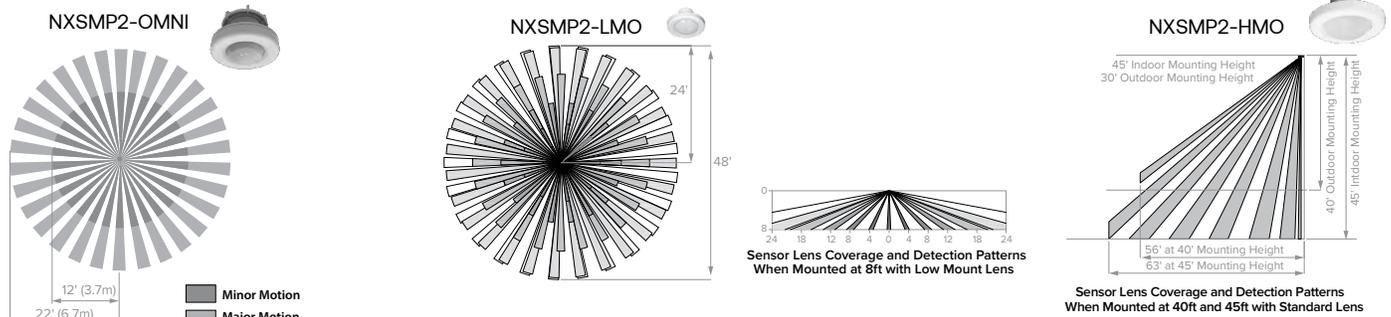
Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components	
	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height			
NX Wireless	NXOFM2-1R1D-UNV	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM2-1R1D-UNV
	NXW	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
Independent	BTSO-12F	-	-	-	✓	✓	✓	✓	✓	12ft		BTSPM-OMNI-O
	BTS-14F	-	-	-	✓	✓	✓	✓	✓	14ft		BTSPM-LMO
	BTS-40F	-	-	-	✓	✓	✓	✓	✓	40ft		BTSPM-HMO

## DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	*Passcode Factory Passcode: HubbN3T!	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

## NX WIRELESS COVERAGE PATTERNS



## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US)



Apple App



Google Play

# RATIO Series

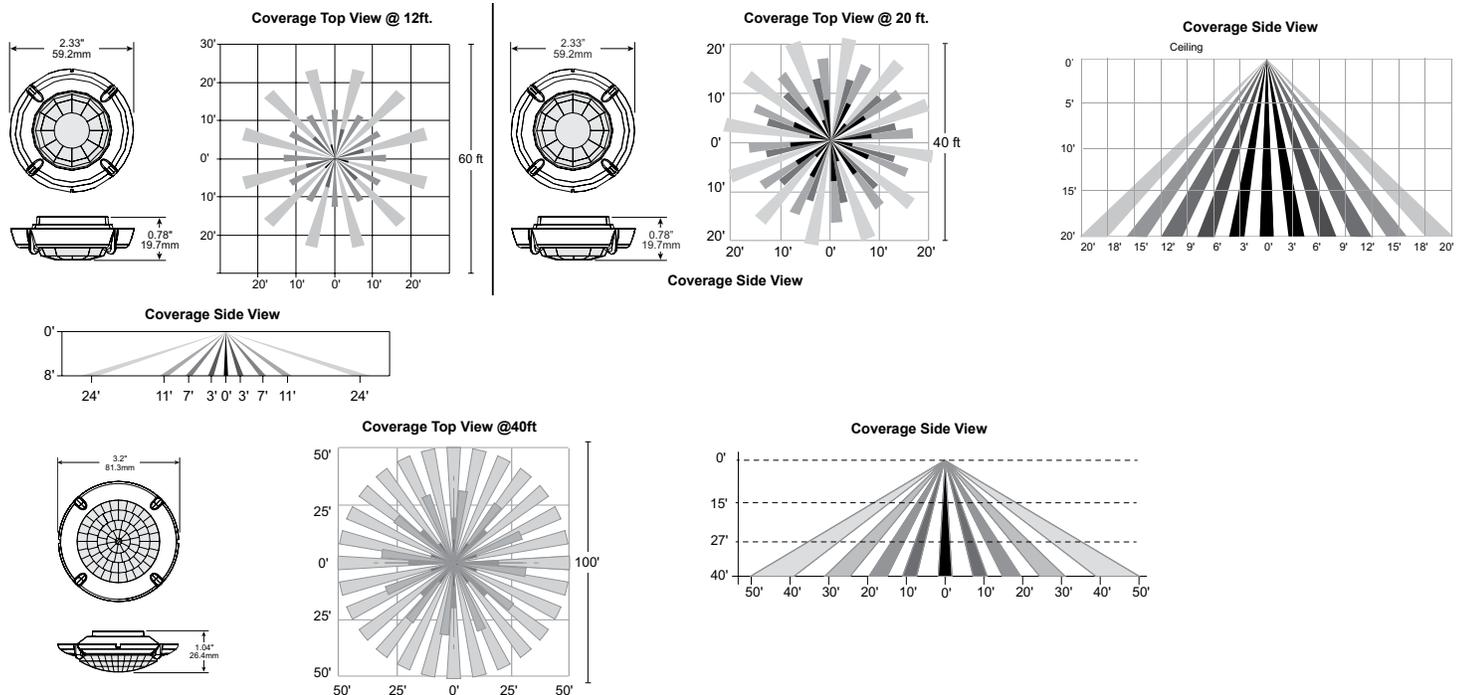
AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

### CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
SCP_F Sensor Control Programmable, sensor range, reference product specification for height selections	-	-	-	✓	✓	✓	✓	-	8ft or 20ft	SCP_F
ADD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD
ADT AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT
7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR
7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 7PR-SC
7PR-TL 7-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	 7PR-TL

### COVERAGE PATTERNS FOR SCP\_F



### PROGRAMMED CONTROLS

#### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

#### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

# RATIO Series

AREA/SITE LIGHTER

## STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

## POLE COMBOS

Catalog Number	Pole	Single or Double Head	Fixture	Lumens	Wattage	Distribution	CCT/CRI	Mounting	Finish
RAR1-100-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
SSSH-20-40-STK	20' Square Straight Steel	Pole Only	Not Included						
SSSH-25-40-STK	25' Square Straight Steel	Pole Only	Not Included						
SSSH-STK-4-KIT		Kit Only	Not Included						

# RATIO Series

AREA/SITE LIGHTER

## CONTROLS

### Control Options

#### Standalone

**SCPREMOTE** Order at least one per project location to program and control

#### Networked – Wireless

**WIR-RME-L** LightGRID+ External Fixture Module<sup>1,2</sup>

#### NX Networked – Wireless

**NXOFM-1R1D-UNV** NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- 1 Works with external networked photosensor
- 2 LightGRID+ Gateway required for system programming

## OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> ACC-O-RAR-ST1-SHLD-BC-36L	Back Light Control for RAR1 Strike 36L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-72L	Back Light Control for RAR2 Strike 72L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-108L	Back Light Control for RAR2 Strike 108L
<input type="checkbox"/> ACC-O-RAR-ST3-SHLD-BC-162L	Back Light Control for RAR3 Strike 162L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-80L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 80L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-160L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 160L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-320L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 320L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-480L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 480L
<input type="checkbox"/> ACC-O-RAR3-SHLD-BC-720L-X <sup>1</sup>	Back Light Control for RAR3 Micro Strike 720L

1 Replace X with distribution type ("2" for Type 2, "3" for Type 3, "4F" for Type 4F, Type "4W" for Type 4W)

## ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface <sup>2</sup>
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles <sup>1,2</sup>
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter <sup>1,2</sup>
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter <sup>2</sup>
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately <sup>2</sup>
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle <sup>2</sup>

1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole

2 Replace "XX" with desired color/paint finish

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

## PERFORMANCE DATA - MICRO STRIKE

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2

RAR2 Performance Data on next page

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - MICROSTRIKE (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	39	39.1	2	5385	138	1	0	1	5369	137	1	0	1	5079	130	1	0	1
			3	5331	136	1	0	2	5315	136	1	0	2	5028	129	1	0	2
			4F	5413	138	1	0	2	5396	137	1	0	2	5105	130	1	0	2
			4W	5341	137	1	0	2	5325	136	1	0	2	5037	129	1	0	2
			5QM	5508	140	2	0	1	5492	140	2	0	1	5195	132	2	0	1
			5QN	5512	140	2	0	0	5495	140	2	0	0	5198	132	2	0	0
			5QW	5118	131	3	0	2	5102	130	3	0	2	4827	123	3	0	2
			5RW	5390	138	3	0	3	5374	137	3	0	3	5084	130	3	0	3
			5W	5350	137	3	0	1	5334	136	3	0	1	5046	129	3	0	1
			C	5002	120	1	0	2	5002	120	1	0	2	5002	128	1	0	2
			FR	5547	141	1	0	1	5530	141	1	0	1	5231	133	1	0	1
			TC	5498	140	1	0	1	5481	140	1	0	1	5185	132	1	0	1
	55	56.8	2	7350	129	1	0	2	7329	129	1	0	2	6933	122	1	0	2
			3	7276	128	1	0	2	7255	128	1	0	2	6863	121	1	0	2
			4F	7388	130	1	0	2	7366	130	1	0	2	6968	123	1	0	2
			4W	7290	128	1	0	3	7269	128	1	0	3	6876	121	1	0	2
			5QM	7519	132	3	0	1	7496	132	3	0	1	7092	125	3	0	1
			5QN	7523	132	3	0	0	7501	132	3	0	0	7096	125	3	0	0
			5QW	6986	123	3	0	2	6965	123	3	0	2	6589	116	3	0	2
			5RW	7358	130	3	0	3	7336	129	3	0	3	6940	122	3	0	3
			5W	7303	129	3	0	2	7281	128	3	0	2	6888	121	3	0	2
			C	6828	113	1	0	2	6828	113	1	0	2	6828	120	1	0	2
			FR	7571	133	1	0	1	7548	133	1	0	1	7141	126	1	0	1
			TC	7504	132	1	0	1	7482	132	1	0	1	7078	125	1	0	1
	85	83.6	2	10081	121	2	0	2	10051	120	2	0	2	9508	114	2	0	2
			3	9979	119	2	0	2	9949	119	2	0	2	9412	113	1	0	2
			4F	10132	121	1	0	2	10102	121	1	0	2	9557	114	1	0	2
			4W	9998	120	1	0	3	9968	119	1	0	3	9430	113	1	0	3
			5QM	10312	123	3	0	1	10281	123	3	0	1	9726	116	3	0	1
			5QN	10318	123	3	0	0	10287	123	3	0	0	9732	116	3	0	0
			5QW	9580	115	4	0	3	9552	114	4	0	3	9036	108	4	0	3
			5RW	10090	121	4	0	4	10060	120	4	0	4	9517	114	3	0	3
			5W	10016	120	4	0	2	9986	119	4	0	2	9447	113	3	0	2
			C	9364	105	2	0	2	9364	105	2	0	2	9364	112	2	0	2
			FR	10383	124	1	0	1	10352	124	1	0	1	9793	117	1	0	1
			TC	10291	123	1	0	1	10261	123	1	0	1	9707	116	1	0	1

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	105	108.2	2	12321	114	2	0	2	12284	114	2	0	2	11621	107	2	0	2
			3	12197	113	2	0	3	12160	112	2	0	3	11504	106	2	0	3
			4F	12384	114	1	0	3	12347	114	1	0	3	11680	108	1	0	2
			4W	12220	113	2	0	3	12183	113	2	0	3	11526	107	1	0	3
			5QM	12603	116	3	0	2	12565	116	3	0	2	11887	110	3	0	2
			5QN	12611	117	3	0	0	12573	116	3	0	0	11894	110	3	0	0
			5QW	11709	108	4	0	3	11674	108	4	0	3	11044	102	4	0	3
			5RW	12333	114	4	0	4	12296	114	4	0	4	11632	108	4	0	4
			5W	12241	113	4	0	2	12205	113	4	0	2	11546	107	4	0	2
			C	11445	99	2	0	2	11445	99	2	0	2	11445	106	2	0	2
			FR	12690	117	1	0	1	12653	117	1	0	1	11969	111	1	0	1
	TC	12578	116	1	0	2	12541	116	1	0	2	11864	110	1	0	2		
	120	120.9	2	13398	111	2	0	2	13358	110	2	0	2	12636	105	2	0	2
			3	13263	110	2	0	3	13223	109	2	0	3	12509	103	2	0	3
			4F	13467	111	1	0	3	13426	111	1	0	3	12701	105	1	0	3
			4W	13288	110	2	0	3	13248	110	2	0	3	12533	104	2	0	3
			5QM	13705	113	3	0	2	13664	113	3	0	2	12926	107	3	0	2
			5QN	13713	113	4	0	0	13672	113	4	0	0	12934	107	3	0	0
			5QW	12733	105	4	0	3	12695	105	4	0	3	12009	99	4	0	3
			5RW	13411	111	4	0	4	13371	111	4	0	4	12649	105	4	0	4
			5W	13312	110	4	0	2	13272	110	4	0	2	12555	104	4	0	2
			C	12446	96	2	0	2	12446	96	2	0	2	12446	103	2	0	2
FR			13800	114	1	0	1	13758	114	1	0	1	13016	108	1	0	1	
TC	13678	113	1	0	2	13637	113	1	0	2	12901	107	1	0	2			

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	115	112.1	2	14701	131	2	0	2	14657	131	2	0	2	13866	124	2	0	2
			3	14553	130	2	0	3	14509	129	2	0	3	13726	122	2	0	3
			4F	14776	132	1	0	3	14732	131	1	0	3	13937	124	1	0	3
			4W	14581	130	2	0	3	14537	130	2	0	3	13752	123	2	0	3
			5QM	15038	134	3	0	2	14993	134	3	0	2	14183	127	3	0	2
			5QN	15047	134	4	0	0	15002	134	4	0	0	14192	127	4	0	0
			5QW	13971	125	4	0	3	13929	124	4	0	3	13177	118	4	0	3
			5RW	14715	131	4	0	4	14671	131	4	0	4	13879	124	4	0	4
			5W	14606	130	4	0	2	14563	130	4	0	2	13776	123	4	0	2
			C	14571	130	2	0	3	14571	130	2	0	3	13656	122	2	0	3
			FR	15142	135	2	0	1	15097	135	2	0	1	14282	127	1	0	1
			TC	15008	134	2	0	2	14963	133	2	0	2	14155	126	1	0	2
	145	141.2	2	17797	126	3	0	3	17744	126	3	0	3	16786	119	3	0	3
			3	17618	125	2	0	3	17565	124	2	0	3	16617	118	2	0	3
			4F	17889	127	2	0	3	17835	126	2	0	3	16872	119	2	0	3
			4W	17652	125	2	0	4	17599	125	2	0	4	16649	118	2	0	4
			5QM	18205	129	4	0	2	18151	129	4	0	2	17170	122	4	0	2
			5QN	18216	129	4	0	0	18162	129	4	0	0	17181	122	4	0	0
			5QW	16914	120	4	0	3	16863	119	4	0	3	15953	113	4	0	3
			5RW	17815	126	4	0	4	17761	126	4	0	4	16802	119	4	0	4
			5W	17683	125	4	0	2	17630	125	4	0	2	16678	118	4	0	2
			C	17640	125	3	0	3	17640	125	3	0	3	16532	117	3	0	3
			FR	18331	130	2	0	2	18276	129	2	0	2	17290	122	2	0	2
			TC	18169	129	2	0	2	18115	128	2	0	2	17137	121	2	0	2
	180	177.0	2	21314	120	3	0	3	21250	120	3	0	3	20102	114	3	0	3
			3	21099	119	3	0	4	21036	119	3	0	4	19900	112	3	0	4
			4F	21423	121	2	0	4	21359	121	2	0	4	20206	114	2	0	4
			4W	21139	119	2	0	4	21076	119	2	0	4	19938	113	2	0	4
			5QM	21802	123	4	0	2	21737	123	4	0	2	20563	116	4	0	2
			5QN	21815	123	4	0	0	21750	123	4	0	0	20575	116	4	0	0
			5QW	20256	114	5	0	4	20195	114	5	0	4	19104	108	5	0	3
			5RW	21334	121	5	0	5	21271	120	5	0	5	20122	114	5	0	5
			5W	21176	120	5	0	3	21113	119	5	0	3	19973	113	5	0	3
C			21125	119	3	0	4	21125	119	3	0	4	19799	112	3	0	4	
FR			21953	124	2	0	2	21888	124	2	0	2	20706	117	2	0	2	
TC			21759	123	2	0	2	21694	123	2	0	2	20523	116	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	210	217.3	2	24102	111	3	0	3	24030	111	3	0	3	22732	105	3	0	3
			3	23859	110	3	0	4	23788	109	3	0	4	22503	104	3	0	4
			4F	24226	111	2	0	4	24153	111	2	0	4	22849	105	2	0	4
			4W	23905	110	3	0	5	23833	110	3	0	5	22546	104	2	0	4
			5QM	24654	113	4	0	2	24581	113	4	0	2	23253	107	4	0	2
			5QN	24669	114	5	0	1	24595	113	5	0	1	23267	107	5	0	0
			5QW	22905	105	5	0	4	22837	105	5	0	4	21604	99	5	0	4
			5RW	24126	111	5	0	5	24053	111	5	0	5	22754	105	5	0	5
			5W	23947	110	5	0	3	23875	110	5	0	3	22586	104	5	0	3
			C	23889	110	3	0	4	23889	110	3	0	4	22389	103	3	0	4
			FR	24825	114	2	0	2	24751	114	2	0	2	23414	108	2	0	2
			TC	24606	113	2	0	2	24532	113	2	0	2	23207	107	2	0	2
	240	238.6	2	26781	112	3	0	4	26701	112	3	0	4	25259	106	3	0	3
			3	26511	111	3	0	4	26432	111	3	0	4	25005	105	3	0	4
			4F	26918	113	2	0	4	26838	112	2	0	4	25389	106	2	0	4
			4W	26562	111	3	0	5	26483	111	3	0	5	25053	105	3	0	5
			5QM	27395	115	4	0	2	27313	114	4	0	2	25838	108	4	0	2
			5QN	27411	115	5	0	1	27329	115	5	0	1	25853	108	5	0	1
			5QW	25451	107	5	0	4	25375	106	5	0	4	24005	101	5	0	4
			5RW	26807	112	5	0	5	26727	112	5	0	5	25284	106	5	0	5
			5W	26609	112	5	0	3	26529	111	5	0	3	25097	105	5	0	3
			C	26544	111	3	0	4	26544	111	3	0	4	24878	104	3	0	4
			FR	27585	116	2	0	2	27502	115	2	0	2	26017	109	2	0	2
			TC	27341	115	2	0	2	27259	114	2	0	2	25787	108	2	0	2
	215	215.0	2	26697	124	3	0	4	26617	124	3	0	4	25180	117	3	0	3
			3	26428	123	3	0	4	26349	123	3	0	4	24926	116	3	0	4
			4F	26834	125	2	0	4	26754	124	2	0	4	25309	118	2	0	4
			4W	26479	123	3	0	5	26400	123	3	0	5	24974	116	3	0	5
			5QM	27309	127	4	0	2	27227	127	4	0	2	25757	120	4	0	2
			5QN	27325	127	5	0	1	27243	127	5	0	1	25772	120	5	0	1
			5QW	25372	118	5	0	4	25296	118	5	0	4	23930	111	5	0	4
			5RW	26723	124	5	0	5	26643	124	5	0	5	25204	117	5	0	5
			5W	26525	123	5	0	3	26446	123	5	0	3	25018	116	5	0	3
C			26461	123	3	0	4	26461	123	3	0	4	24799	115	3	0	4	
FR			27498	128	2	0	2	27416	128	2	0	2	25935	121	2	0	2	
TC			27255	127	2	0	2	27174	126	2	0	2	25706	120	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	250	247.5	2	30249	122	3	0	4	30159	122	3	0	4	28530	115	3	0	4
			3	29944	121	3	0	4	29855	121	3	0	4	28243	114	3	0	4
			4F	30404	123	2	0	5	30313	122	2	0	5	28676	116	2	0	5
			4W	30002	121	3	0	5	29912	121	3	0	5	28297	114	3	0	5
			5QM	30942	125	5	0	3	30849	125	5	0	3	29184	118	5	0	2
			5QN	30961	125	5	0	1	30868	125	5	0	1	29201	118	5	0	1
			5QW	28747	116	5	0	4	28661	116	5	0	4	27113	110	5	0	4
			5RW	30278	122	5	0	5	30188	122	5	0	5	28558	115	5	0	5
			5W	30054	121	5	0	4	29964	121	5	0	4	28346	115	5	0	3
			C	29982	121	3	0	4	29982	121	3	0	4	28099	114	3	0	4
			FR	31157	126	2	0	2	31063	126	2	0	2	29386	119	2	0	2
			TC	30881	125	3	0	3	30789	124	3	0	3	29126	118	3	0	2
	280	274.6	2	32729	119	3	0	4	32631	119	3	0	4	30869	112	3	0	4
			3	32400	118	3	0	5	32303	118	3	0	5	30558	111	3	0	5
			4F	32897	120	2	0	5	32799	119	2	0	5	31028	113	2	0	5
			4W	32462	118	3	0	5	32365	118	3	0	5	30617	112	3	0	5
			5QM	33479	122	5	0	3	33379	122	5	0	3	31577	115	5	0	3
			5QN	33499	122	5	0	1	33399	122	5	0	1	31596	115	5	0	1
			5QW	31104	113	5	0	5	31011	113	5	0	5	29337	107	5	0	4
			5RW	32761	119	5	0	5	32663	119	5	0	5	30899	113	5	0	5
			5W	32519	118	5	0	4	32421	118	5	0	4	30671	112	5	0	4
			C	32440	118	3	0	5	32440	118	3	0	5	30403	111	3	0	5
			FR	33711	123	2	0	2	33610	122	2	0	2	31795	116	2	0	2
			TC	33413	122	3	0	3	33313	121	3	0	3	31515	115	3	0	3
	325	325.0	2	36969	114	3	0	4	36858	113	3	0	4	34868	107	3	0	4
			3	36597	113	3	0	5	36487	112	3	0	5	34517	106	3	0	5
			4F	37159	114	3	0	5	37047	114	3	0	5	35047	108	3	0	5
			4W	36667	113	3	0	5	36557	112	3	0	5	34583	106	3	0	5
			5QM	37816	116	5	0	3	37703	116	5	0	3	35667	110	5	0	3
			5QN	37839	116	5	0	1	37726	116	5	0	1	35688	110	5	0	1
			5QW	35133	108	5	0	5	35028	108	5	0	5	33137	102	5	0	5
			5RW	37005	114	5	0	5	36894	114	5	0	5	34902	107	5	0	5
			5W	36731	113	5	0	4	36621	113	5	0	4	34643	107	5	0	4
C			36642	113	3	0	5	36642	113	3	0	5	34341	106	3	0	5	
FR			38078	117	3	0	2	37964	117	3	0	2	35914	111	3	0	2	
TC			37742	116	3	0	3	37629	116	3	0	3	35597	110	3	0	3	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	365	357.7	2	40171	112	3	0	4	40051	112	3	0	4	37888	106	3	0	4
			3	39767	111	3	0	5	39648	111	3	0	5	37507	105	3	0	5
			4F	40377	113	3	0	5	40257	113	3	0	5	38083	106	3	0	5
			4W	39843	111	3	0	5	39724	111	3	0	5	37579	105	3	0	5
			5QM	41092	115	5	0	3	40969	115	5	0	3	38756	108	5	0	3
			5QN	41117	115	5	0	1	40994	115	5	0	1	38780	108	5	0	1
			5QW	38177	107	5	0	5	38063	106	5	0	5	36007	101	5	0	5
			5RW	40210	112	5	0	5	40090	112	5	0	5	37925	106	5	0	5
			5W	39913	112	5	0	4	39793	111	5	0	4	37644	105	5	0	4
			C	39816	111	3	0	5	39816	111	3	0	5	37316	104	3	0	5
			FR	41377	116	3	0	2	41253	115	3	0	2	39025	109	3	0	2
			TC	41011	115	3	0	3	40888	114	3	0	3	38680	108	3	0	3

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - MICROSTRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
480		0.61		
340	120	2.89	347.1	
	208	1.67		
	240	1.45		
	277	1.25		
	347	1.00		
		480	0.72	

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - STRIKE OPTICS

# OF LEDs	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36	39	120	0.326	39.1
		208	0.188	
		240	0.163	
		277	0.141	
		347	0.113	
		480	0.081	
	55	120	0.473	56.8
		208	0.273	
		240	0.237	
		277	0.205	
		347	0.164	
		480	0.118	
	85	120	0.697	83.6
		208	0.402	
		240	0.348	
		277	0.302	
		347	0.241	
		480	0.174	
	105	120	0.902	108.2
		208	0.520	
		240	0.451	
		277	0.391	
		347	0.312	
		480	0.225	
120	120	1.008	120.9	
	208	0.581		
	240	0.504		
	277	0.436		
	347	0.348		
	480	0.252		

# OF LEDs	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
72L	115	120	0.934	112.1
		208	0.539	
		240	0.467	
		277	0.405	
		347	0.323	
		480	0.234	
	145	120	1.177	141.2
		208	0.679	
		240	0.588	
		277	0.510	
		347	0.407	
		480	0.294	
	180	120	1.475	177.0
		208	0.851	
		240	0.738	
		277	0.639	
		347	0.510	
		480	0.369	
	210	120	1.811	217.3
		208	1.045	
		240	0.905	
		277	0.784	
		347	0.626	
		480	0.453	
240	120	1.988	238.6	
	208	1.147		
	240	0.994		
	277	0.861		
	347	0.688		
	480	0.497		
108L	215	120	1.792	215.0
		208	1.034	
		240	0.896	
		277	0.776	
		347	0.620	
		480	0.448	
	250	120	2.063	247.5
		208	1.190	
		240	1.031	
		277	0.894	
		347	0.713	
		480	0.516	
	280	120	2.288	274.6
		208	1.320	
		240	1.144	
		277	0.991	
		347	0.791	
		480	0.572	
	325	120	2.708	325.0
		208	1.563	
		240	1.354	
		277	1.173	
		347	0.937	
		480	0.677	
365	120	2.981	357.7	
	208	1.720		
	240	1.490		
	277	1.291		
	347	1.031		
	480	0.745		

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-
3000K	0.977	0.861	0.647
3500K	-	0.900	-
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

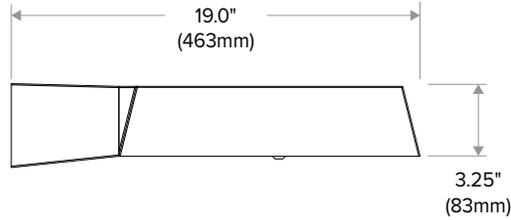
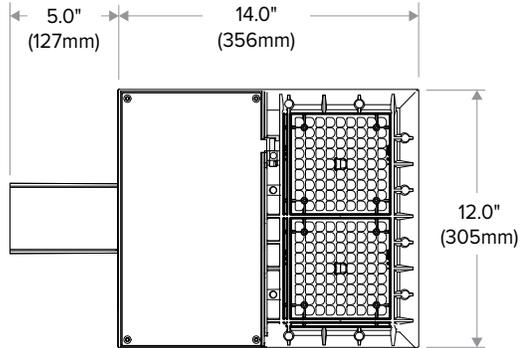
Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	<a href="#">See Amber Spec Sheet</a>		

# RATIO Series

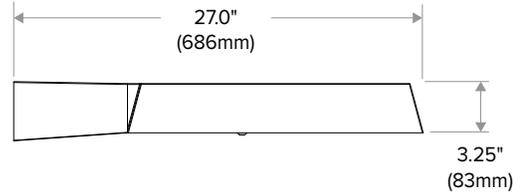
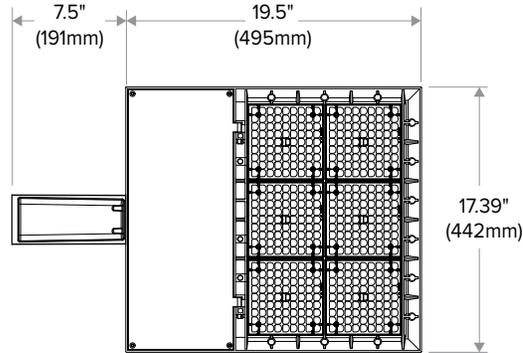
AREA/SITE LIGHTER

## DIMENSIONS

RAR1

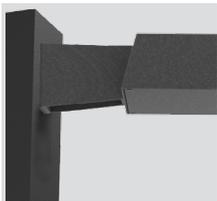


RAR2



## ADDITIONAL INFORMATION

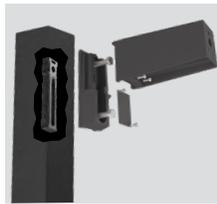
### MOUNTING



**Arm Mount – ASQ:** Fixture ships with integral arm for ease of installation.



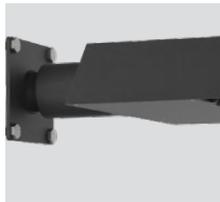
**Knuckle –** Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



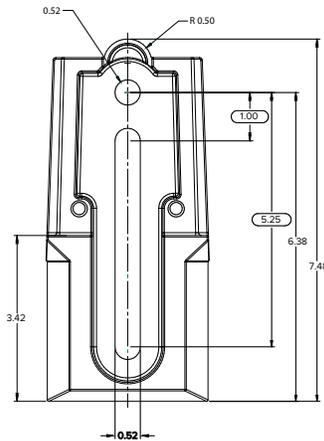
**Universal Mounting –** Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and S2 and B3 drill patterns



**MAF –** Fits 2-3/8" OD arms Roadway applications.



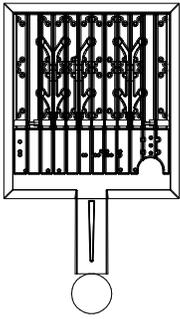
**Wall Mount –** Wall mount bracket designed for building mount applications.



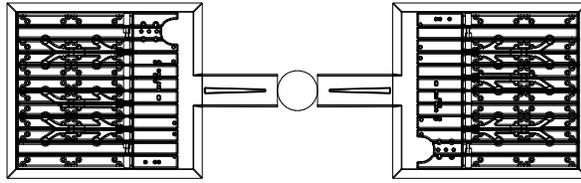
# RATIO Series

AREA/SITE LIGHTER

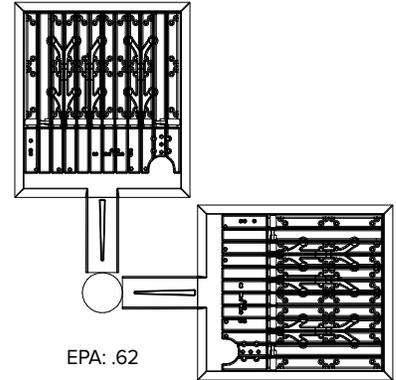
## EPA (RAR1)



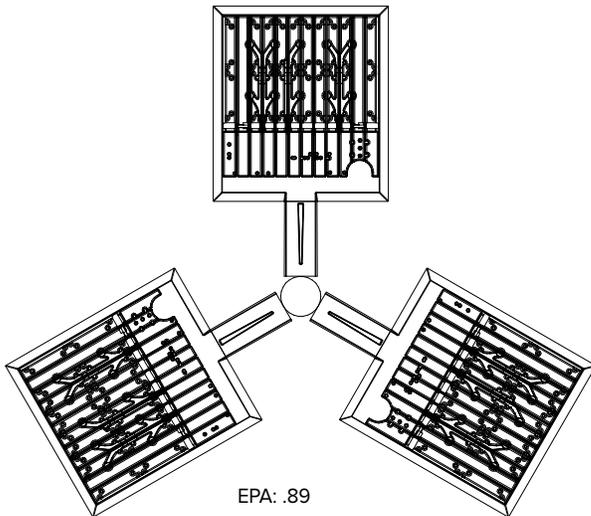
EPA Knuckle Mount 0 degrees: .43  
 EPA Knuckle Mount 30 degrees: .55  
 EPA Arm Mount: 0 degrees .45



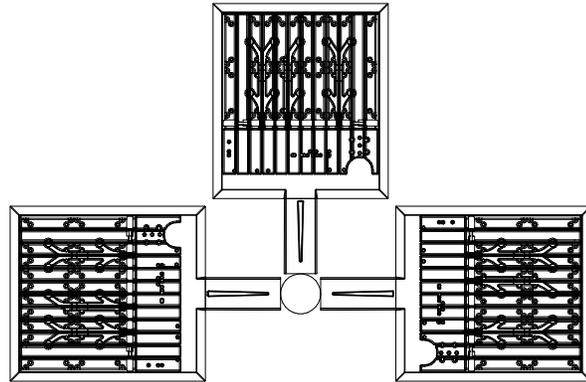
EPA: .99



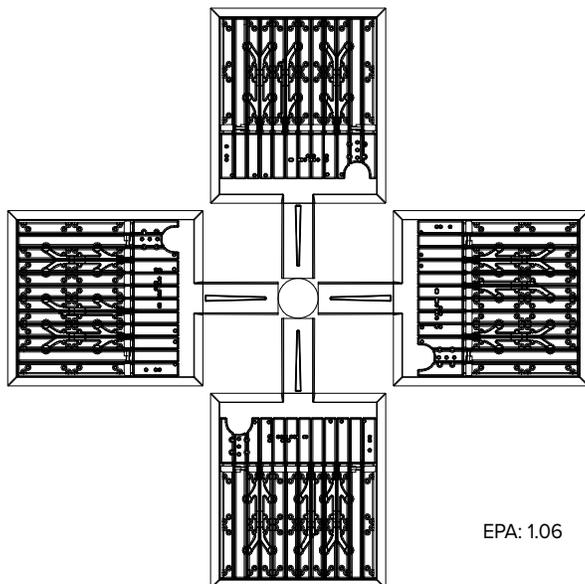
EPA: .62



EPA: .89



EPA: .99

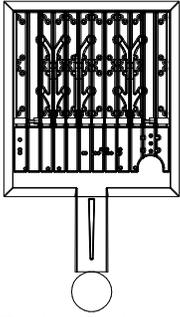


EPA: 1.06

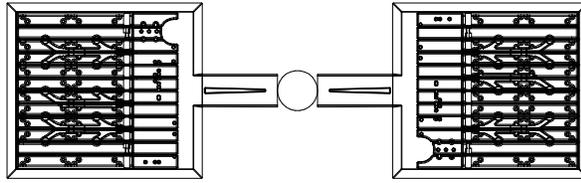
# RATIO Series

AREA/SITE LIGHTER

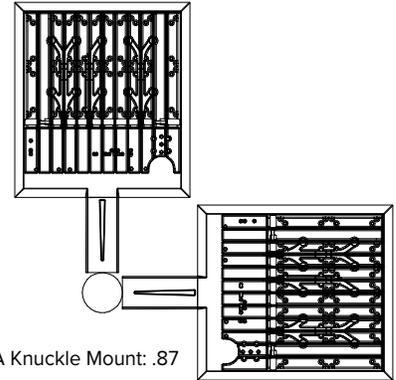
## EPA (RAR2)



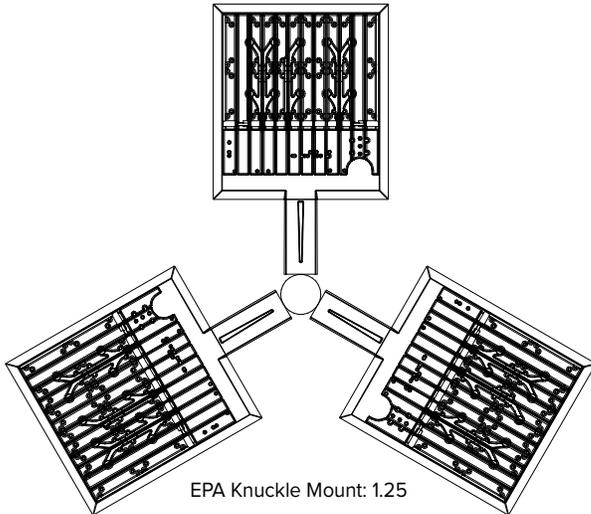
EPA Knuckle Mount: .52  
EPA Arm Mount: .55



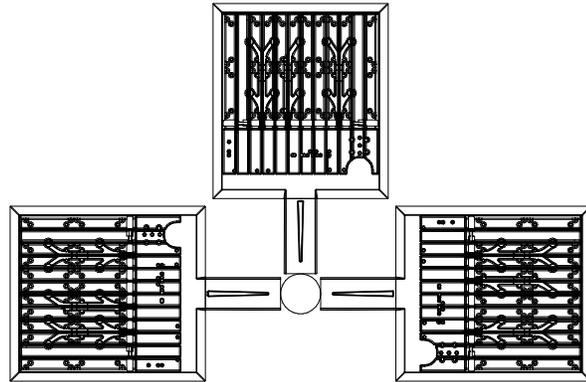
EPA: 1.486



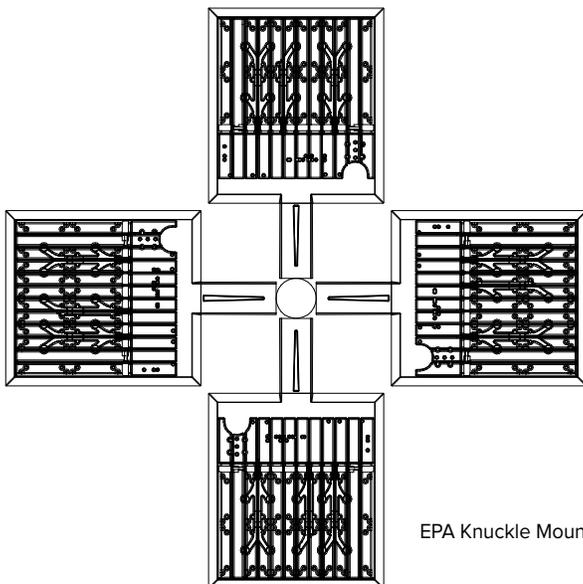
EPA Knuckle Mount: .87



EPA Knuckle Mount: 1.25



EPA Knuckle Mount: 1.41



EPA Knuckle Mount: 1.56

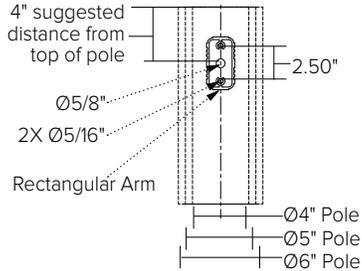
# RATIO Series

AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

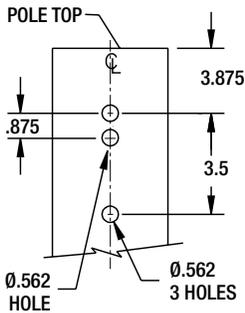
### ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



### UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

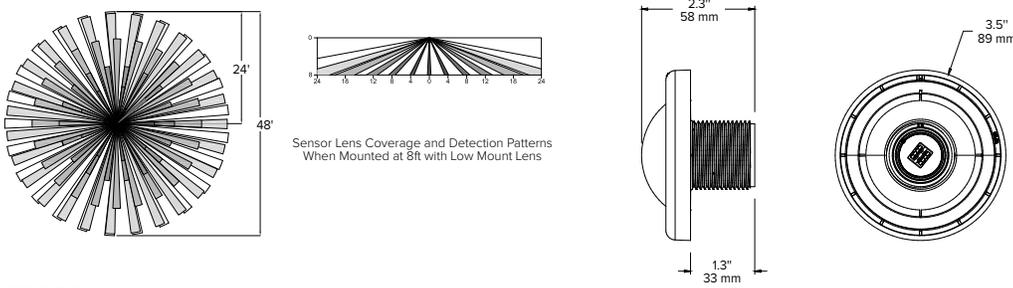
ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

# RATIO Series

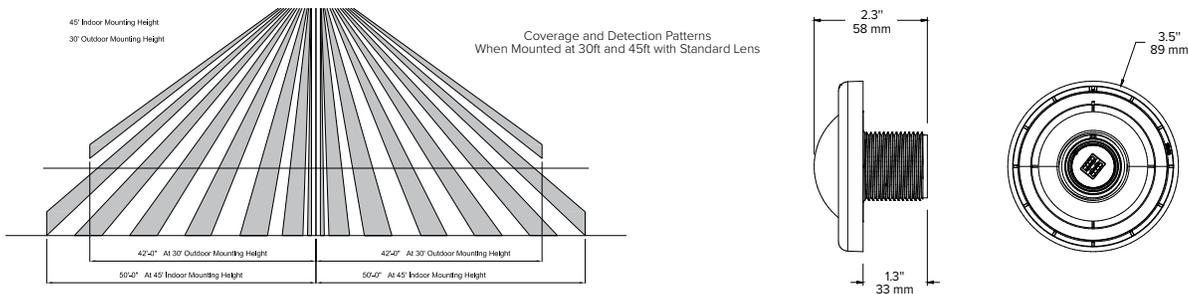
AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

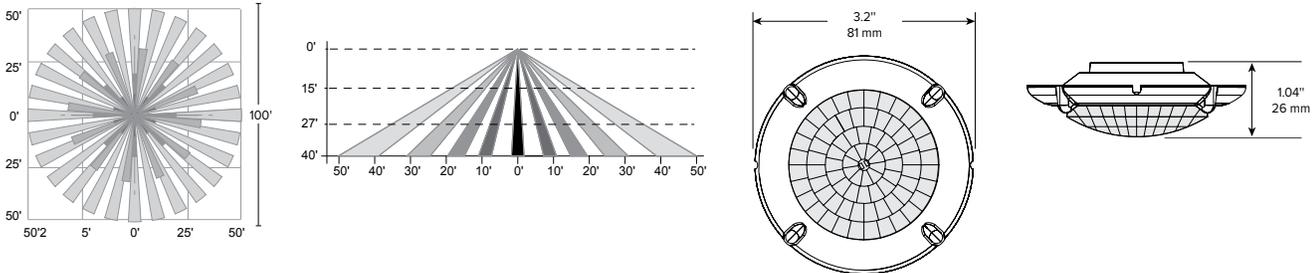
### NXSP-14F



### NXSP-30F



### SCP-40F



### RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. <sup>2</sup> .13m <sup>2</sup>	.56ft. <sup>2</sup> .17m <sup>2</sup>

### RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. <sup>2</sup> .17m <sup>2</sup>	1.48ft. <sup>2</sup> .45m <sup>2</sup>

### SHIPPING

Catalog Number	G.W(kg)/ CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

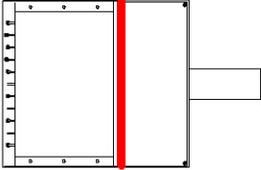
# RATIO Series

AREA/SITE LIGHTER

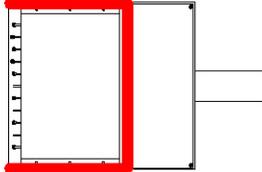
## ADDITIONAL INFORMATION (CONT'D)

### RATIO HOUSE SIDE SHIELD

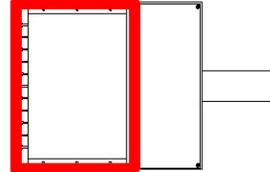
RARx HSS-90-B-xx



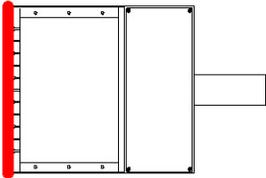
RARx HSS-270-BSS-xx



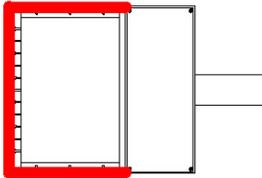
RARx HSS-360-xx



RARx HSS-90-F-xx

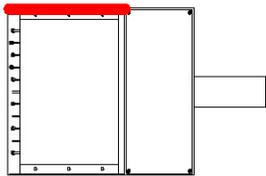


RARx HSS-270-FSS-xx

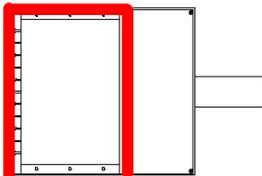


**Note:** Not to be used with Occupancy Sensors as the shield may block the light to the sensor

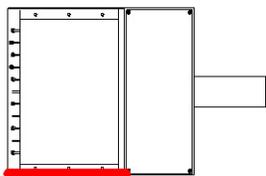
RARx HSS-90-S-xx



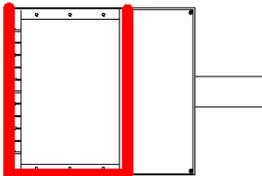
RARx HSS-270-FSB-xx



RARx HSS-90-S-xx



RARx HSS-270-FSB-xx



**CY2**

ARCHITECTURAL AREA/SITE

**FEATURES**

- Integral Battery Backup Option
- 360° Light Distribution
- RGBW or Static White Luminous Front Option
- Multiple Fascia Options and Finishes
- 4G Vibration Tested



3000K and warmer CCTs only

**CONTROL TECHNOLOGY**



**SPECIFICATIONS**

**CONSTRUCTION**

- Main housing shroud is made of fabricated 5052-H32 aluminum alloy
- Housing mounting interface has a stamped silicone gasket
- Luminaire housing is free of any visible heat fins, hardware or fasteners
- Bracketry and hardware is stainless steel
- Luminaire finish consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish
- Luminaire finish meets the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance

**LED/OPTICS**

- LEDs are mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features
- Optical lenses is clear injection molded PMMA acrylic
- Optical array is recessed in order to shield each LED optic across the length of the aperture
- Optical array is sealed for IP66 rating
- Secondary lens is impact resistant 5/32" tempered glass

**INSTALLATION**

- JUNCTION BOX: Standard with zinc-plated, quick-mount junction box plate that mounts directly to 4" J-Box
- Mounting plate features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates

**INSTALLATION (CONTINUED)**

- Fixture attaches by two Allen-head hidden fasteners for tamper resistance
- Optional mounting arrangements utilize a die-cast mounting adaptor to allow for surface conduit and through branch wiring
- Housing is able to hang freely in an open service position for inspection of internal wire connections. Once in service position, the housing shall be able to be removed for service by lifting the assembly up off the rear mounting plate and disconnecting the wiring plugs
- Driver assembly is mounted to a prewired internal tray with quick disconnects for removal

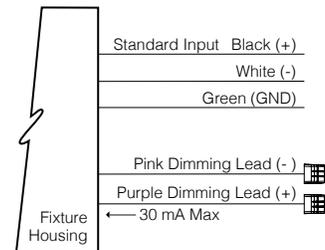
**ELECTRICAL**

- Drivers are in direct contact with the die-cast aluminum housing across the entire surface area of the widest face for maximum thermal transfer
- "Thermal Shield", primary side, thermistor provides protection for the sustainable life of LED module and electronic components
- Drivers have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaires have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J. Surge protection device shall be wired in series
- Drivers are 0-10V dimming control with a dimming range of 100%-10%. Drivers are U.L. listed. All luminaires shall accept 120-277 volt input and have integral surge protection."Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components

**CYPHER™**



Cypher 14"



**ELECTRICAL (CONTINUED)**

- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for -20°C ambient environments
- Luminaire are capable of operating at 100% brightness in a 40°C environment. Both driver and optical array shall have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C

**CONTROLS**

- Button photocontrol for dusk to dawn energy savings
- Photocell is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others. Photocell adapter shall include an internal twist lock receptacle. Photocell by others

continued on page 3

KEY DATA	
LUMEN RANGE	1,906–5,083
WATTAGE RANGE	26–52
EFFICACY RANGE (LPW)	67–109
WEIGHT	Refer to page 5

**ORDERING GUIDE**

**Example:** CY2-35-3K7-1-2D-UNV-BLS-F-RGBW-FPP-PCU-SF

CATALOG #

Series-Output (Base)	CCT-CRI	Model (Light Engine) <sup>1</sup>	Main Distribution (Down)	Secondary Distribution (Up, Sides)	Voltage
<b>CY2-25</b> 25W, 2500 nominal lumens	<b>27K8</b> 2700K, 80CRI	<b>1</b> DownLight Only	<b>1</b> IES Type I	<b>1</b> IES Type I	<b>UNV</b> 120-277V
<b>CY2-35</b> 40W, 3500 nominal lumens	<b>3K7</b> 3000K, 70CRI	<b>2</b> 50/50 Down/Up, <b>Down/Up distributions must match</b>	<b>2</b> IES Type II	<b>2</b> IES Type II	<b>347</b> 347V
<b>CY2-45</b> 50W, 4500 nominal lumens	<b>3K8</b> 3000K, 80CRI	<b>3</b> 90/10 Down/Up	<b>3</b> IES Type III	<b>3</b> IES Type III	<b>480</b> 480V
	<b>4K7</b> 4000K, 70CRI	<b>4</b> 25/25/25/25 Split, <b>Down/Up/Side Distributions must match</b>	<b>4</b> IES Type IV	<b>4</b> IES Type IV	
	<b>4K8</b> 4000K, 80CRI	<b>5</b> 70/10/10/10 Spit, <b>Top/Side distributions must match</b>	<b>SP</b> 15° Spot/Column	<b>SP</b> 15° Spot/Column	
	<b>5K7</b> 5000K, 70CRI		<b>WG</b> 60° Wall Graze	<b>WG</b> 60° Wall Graze	
			<b>1D</b> Type 1 Diffused	<b>PB</b> Pencil Beam <sup>2</sup>	
			<b>2D</b> Type 2 Diffused	<b>1D</b> Type 1 Diffused	
			<b>3D</b> Type 3 Diffused	<b>2D</b> Type 2 Diffused	
			<b>4D</b> Type 4 Diffused	<b>3D</b> Type 3 Diffused	
				<b>4D</b> Type 4 Diffused	

Base Housing Finish	Fascia Form <sup>1</sup>	Luminous Front <sup>4</sup>	Fascia Panel <sup>5</sup>	Control Options <sup>6</sup>	Options
<b>BLS</b> Black Gloss Smooth	<b>F</b> Flat	<b>Blank</b> Standard None	<b>FPP</b> Full Panel Painted	<b>PCU</b> Universal Button Photocell (120-277V)	<b>EM</b> Battery Backup Unit -20° C <sup>8</sup>
<b>BLT</b> Black Matte Textured	<b>R</b> Radius/Curved	<b>RGBW</b> RGBW Luminous Front	<b>FPS</b> Full Panel Stainless Steel	<b>SCP</b> Programmable Occupancy Sensor	<b>SF</b> Single Fuse (120, 277, 347)
<b>DBS</b> Dark Bronze Gloss Smooth	<b>T</b> Triangle/Wedge	<b>LFSW</b> Static White Luminous Front	<b>FPC</b> Full Panel Copper		<b>WIR</b> LightGRID+™
<b>DBT</b> Dark Bronze Matte Textured	<b>E</b> Rounded/Edge		<b>OPP</b> Open Panel Painted <sup>7</sup>	<b>WIRC</b> LightGRID+™ w/ Occupancy Sensor	
<b>GTT</b> Graphite Matte Textured	<b>C</b> Circle/Curved	<b>OPS</b> Open Panel Stainless Steel <sup>7</sup>	<b>4PP</b> 4-Square Panel Painted <sup>7</sup>		<b>SCB</b> Surface Conduit Box
<b>LGS</b> Light Gray Gloss Smooth	<b>CB</b> Cylinder Balanced	<b>OPC</b> Open Panel Copper <sup>7</sup>	<b>4PS</b> 4-Square Panel Stainless Steel <sup>7</sup>		
<b>LGT</b> Light Gray Matte Textured	<b>CT</b> Cylinder Tall	<b>4PP</b> 4-Square Panel Painted <sup>7</sup>	<b>4PC</b> 4-Square Panel Copper <sup>7</sup>		
<b>PSS</b> Platinum Silver Gloss Smooth	<b>CBM</b> Custom Building Material Mount Ghost Fascia <sup>9</sup>	<b>4PS</b> 4-Square Panel Stainless Steel <sup>7</sup>	<b>PPP</b> Perforated Panel Painted <sup>7</sup>		
<b>VGT</b> Verde Green Matte Textured		<b>4PC</b> 4-Square Panel Copper <sup>7</sup>	<b>PPS</b> Perforated Panel Stainless Steel		
<b>WHS</b> White Gloss Smooth		<b>PPP</b> Perforated Panel Painted <sup>7</sup>	<b>PPC</b> Perforated Panel Copper		
<b>WHT</b> White Matte Textured		<b>PPS</b> Perforated Panel Stainless Steel			
<b>Color Options</b>		<b>PPC</b> Perforated Panel Copper			
<b>CC</b> Custom Color <sup>3</sup>					

Notes:

- Consult factory for custom distributions. See Distribution Matrix on page 4 restrictions
- PB distribution is available for 90/10 and 70/10/10/10 models only. Not all combinations are recommended. See Distribution Matrix on page 2 for restrictions.
- Consult factory for custom color, marine and corrosive finish
- RGBW and LFSW luminous fronts are only available with open, four square and perforated fascia panels
- Flat and Radius Fascia forms only. Painted panels by default match base housing finish/color. Consult factory for custom panel finishes.
- Occupancy sensors not available with CB, T, E or C fascia forms
- Luminous front is required to select the Open Panel and 4-Square Panel fascia panels.
- Consult factory for information on specific configurations with different fascia forms.
- Custom Building Material Mount Ghost Fascia option allows the Cypher to blend seamlessly into the building architecture by matching the finish of the architectural background. See page 5 for dimensions and contact factory for additional information.

**CY2**

ARCHITECTURAL AREA/SITE

**SPECIFICATIONS (CONTINUED)****CONTROL (CONTINUED)**

- Each fixture comes equipment with a dual control driver that supports Bluetooth® operation of individual fixtures or DMX control of an entire system of fixtures.

**BLUETOOTH®:**

- Free Bluetooth® Apps are available for Apple iOS and Google Android mobile devices and are downloadable via the Internet at Apple App Store or Google Play.
- Modular wiring harness in the service area provides user access to the dimming circuitry via DMX.

**DMX:**

- Fully DMX/RDM Compatible
- Utilizes 4 DMX Channels per fixture

**DMX MAP**

- Start Address – Red
- Start Address +1 – Green
- Start Address +2 – Blue
- Start Address +3 – White

**DMX Addressing** is performed by using a compatible RDM handheld unit or via the Bluetooth® App.

- Performed by using a compatible RDM handheld unit or via the Bluetooth® App

**DMX WIRING COLOR CODE**

- Red Wire – DMX +
- Brown Wire – DMX-
- Yellow Wire – Shield/Ground
- DMX termination must be achieved by adding a DMX terminator to the last fixture in a Daisy-Chain. Fixture does not auto terminate.
- Kim Lighting is proud to offer the Pharos Architectural Controls DMX Controllers and Touch screens. See Pharos Spec Sheet for more details.  
See the Pharos® Spec Sheet for more details.

**MOBILE APP:**

- Mobile App specification in additional information section.
- Mobile App. dimming range from 0% to 100% through the use of Current RGBW app (available on IOS and Android).
- Color selection and adjustment.
- Camera function for color matching.
- Intensity slider for dimming/ramping up.
- Save and rename up to 10 presets.
- Group and rename fixtures.
- Fixture is password protected, refer to instructions to set unique password.

**CERTIFICATIONS**

- Luminaire is listed with UL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250
- IP66 rated assembly
- IDA approved, 3000K and warmer CCTs only
- ANSI C136.31-2010 4G Vibration tested and compliant
- Complies with "Americans with Disabilities Act" or "ADA" on select versions for low mounting height applications (fixtures extend maximum of 4 inches from wall for mounting heights of 80 inches or less)
- Emergency battery back options are California Energy Commission (CEC) Title 20 Compliant

**WARRANTY**

- 5 year warranty



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**DELIVERED LUMENS**

Nominal Output (Lm)	System Watts	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
			Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)
				B	U	G			B	U	G			B	U	G	
2,500	26	Type 1	2499	0	0	0	96	2596	0	0	0	100	2836	0	0	0	109
		Type 2	2265	1	0	1	87	2353	1	0	1	90	2570	1	0	1	99
		Type 3	2413	1	0	1	93	2507	1	0	1	96	2739	1	0	1	107
		Type 4	2213	0	0	1	85	2299	0	0	1	88	2512	0	0	1	97
		Wall Graze	2462	2	0	0	95	2558	2	0	0	98	2795	2	0	0	107
		Spot/Column	2089	2	0	0	80	2171	2	0	0	83	2371	2	0	0	91
		Type 1 Diffused	2193	1	0	1	84	2278	1	0	1	88	2488	1	0	1	96
		Type 2 Diffused	2004	1	0	1	77	2082	1	0	1	80	2274	1	0	1	87
		Type 3 Diffused	1906	1	0	1	73	1980	1	0	1	76	2163	1	0	1	83
Type 4 Diffused	1936	1	0	1	74	2011	1	0	1	77	2197	1	0	1	84		
3,500	40	Type 1	3534	1	0	0	88	3672	1	0	0	92	4011	88	1	0	100
		Type 2	3203	1	0	0	80	3328	1	0	1	83	3635	80	1	0	91
		Type 3	3413	1	0	1	85	3546	1	0	1	89	3874	85	1	0	97
		Type 4	3131	1	0	1	78	3252	1	0	1	81	3553	78	1	0	89
		Wall Graze	3483	2	0	0	87	3618	2	0	0	90	3953	87	2	0	99
		Spot/Column	2955	3	0	0	74	3070	3	0	0	77	3354	74	3	0	84
		Type 1 Diffused	3101	1	0	1	78	3222	1	0	1	81	3519	78	1	0	88
		Type 2 Diffused	2835	1	0	1	71	2945	1	0	1	74	3217	71	1	0	80
		Type 3 Diffused	2695	1	0	1	67	2800	1	0	1	70	3059	67	1	0	76
Type 4 Diffused	2738	1	0	1	68	2844	1	0	1	71	3107	68	1	0	78		
4,500	52	Type 1	4390	1	0	0	84	4561	1	0	0	88	4982	1	0	1	97
		Type 2	4119	1	0	1	79	4280	1	0	1	82	4675	1	0	1	90
		Type 3	4240	1	0	1	82	4405	1	0	1	86	4812	1	0	1	95
		Type 4	4026	1	0	1	77	4183	1	0	1	80	4569	1	0	1	88
		Wall Graze	4479	3	0	0	86	4653	3	0	0	89	5083	3	0	0	99
		Spot/Column	3800	3	0	0	73	3948	3	0	0	76	4313	3	0	0	84
		Type 1 Diffused	3988	1	0	1	77	4143	1	0	1	80	4526	2	0	1	88
		Type 2 Diffused	3645	1	0	1	70	3787	1	0	1	73	4137	1	0	1	80
		Type 3 Diffused	3466	1	0	1	67	3601	1	0	1	69	3934	1	0	1	76
Type 4 Diffused	3521	1	0	1	68	3658	1	0	1	70	3996	1	0	1	77		

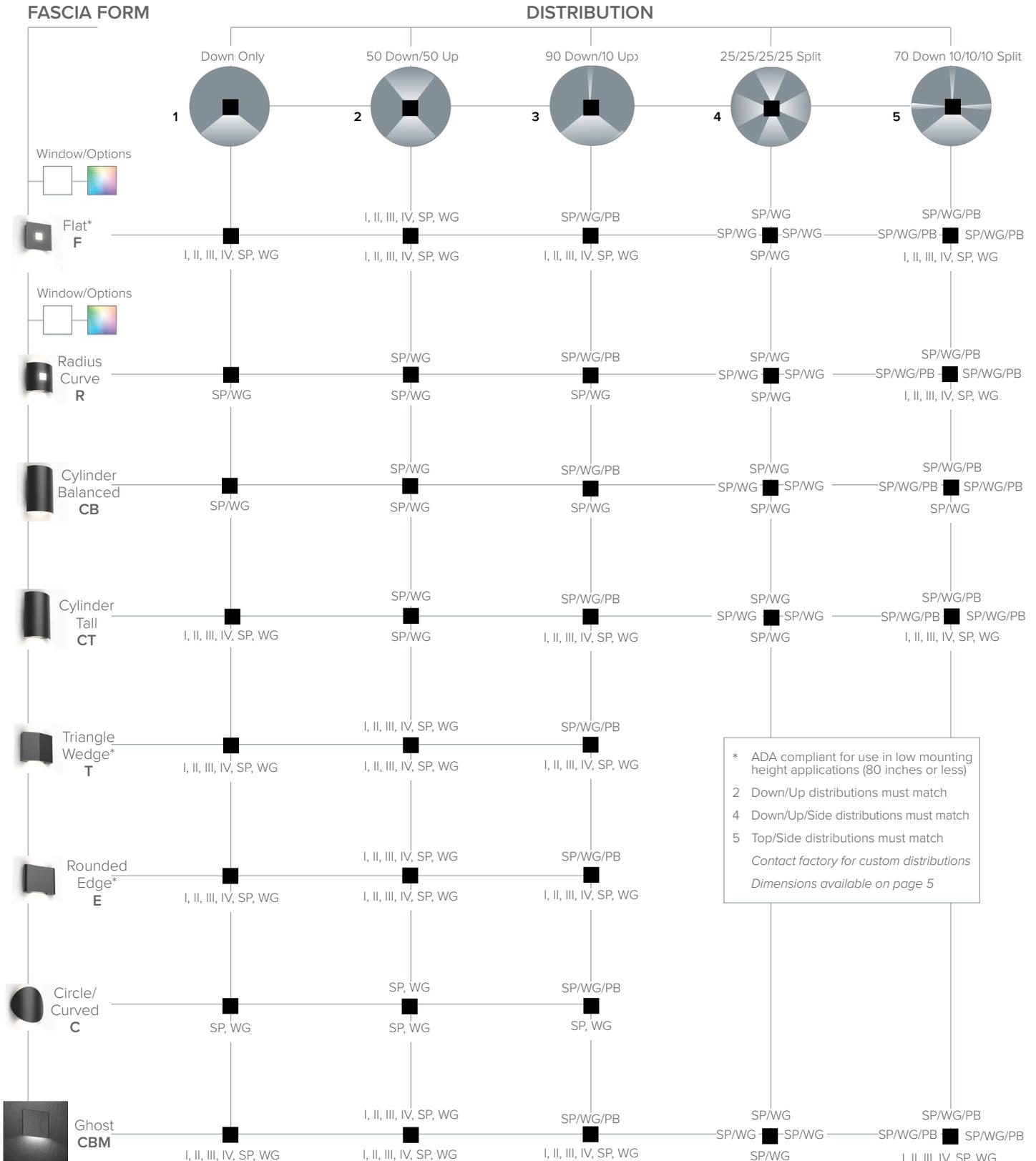
**ELECTRICAL CHARACTERISTICS**

LUMEN PACKAGE	SYSTEM WATTAGE (W)	LINE VOLTAGE		INPUT				MIN. POWER FACTOR	MAX THD (%)	DIMMING RANGE	SOURCE CURRENT OUT OF 0-10V		ABSOLUTE VOLTAGE RANGE ON 0-10V (+) PURPLE	
		VAC	HZ	120	277	347	480				MIN.	MAX.	MIN.	MAX.
2,500	26	120-480	50/60	0.22	0.09	0.07	0.05	>0.9	20	10% to 100%	0 mA	1 mA	0V	10V
3,500	40			0.33	0.14	0.12	0.08							
4,500	52			0.43	0.19	0.15	0.11							

**TM-21 LIFETIME CALCULATION (500mA)**

LUMEN PACKAGE	AMBIENT ENVIRONMENT °C	PROJECTED LUMEN MAINTENANCE (Khrs)						REPORTED L70
		15	25	50	60 (TM-21)	100		
4,500	25	95%	94%	90%	89%	83%	>60Khrs.	
	40	93%	91%	84%	82%	73%		

**DISTRIBUTION MATRIX**

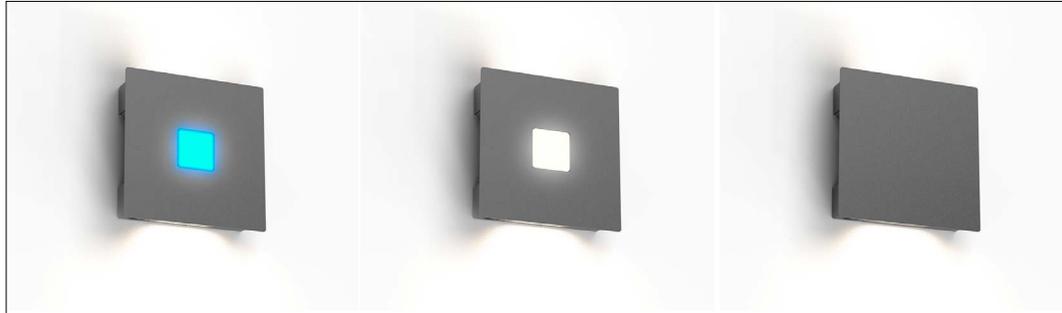


**CY2**

ARCHITECTURAL AREA/SITE

**FASCIA**

**FLAT**



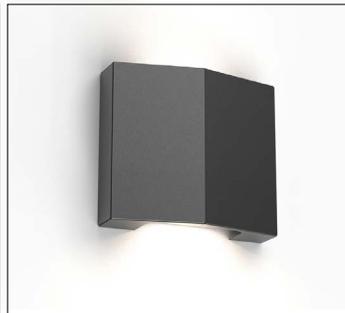
**CURVE**



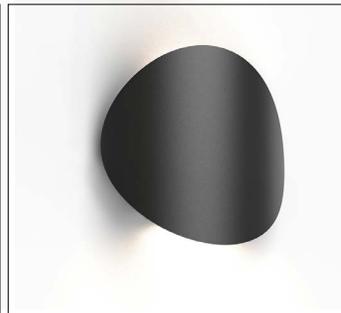
**ROUNDED EDGE**



**TRIANGLE**



**CIRCLE**



**CYLINDER TALL**



**CYLINDER BALANCED**



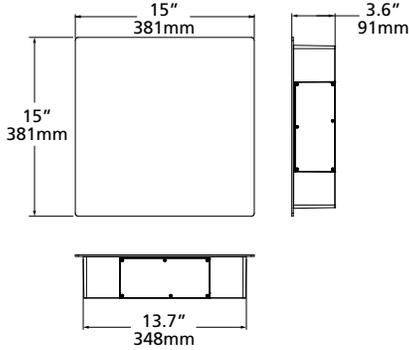
**CY2**

ARCHITECTURAL AREA/SITE

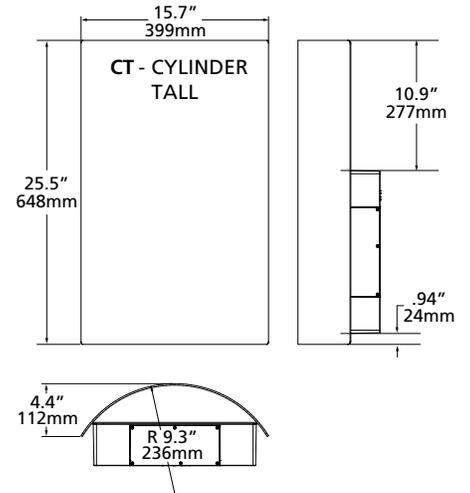
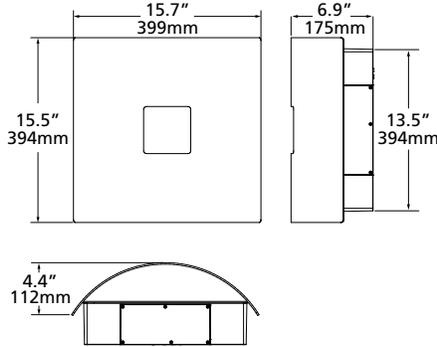
**DIMENSIONS**

**F - FLAT**

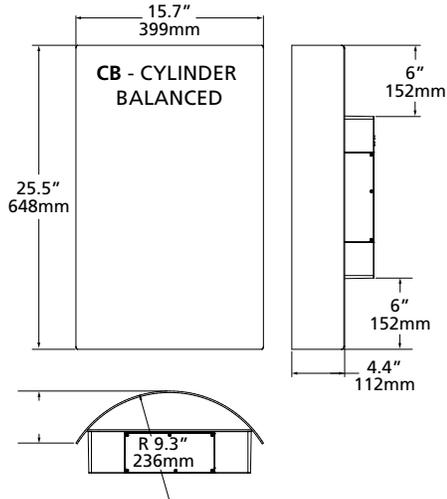
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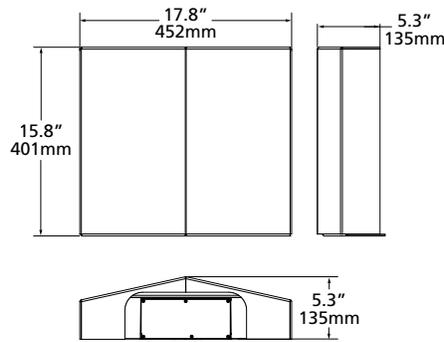
**R - RADIUS/CURVED**



**CB - CYLINDER BALANCED**

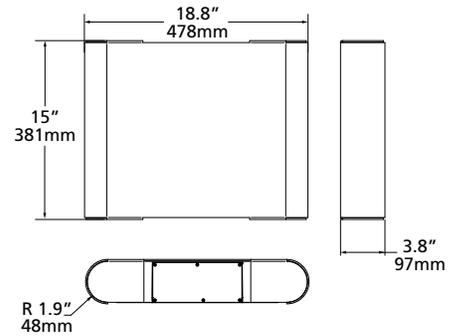


**T - TRIANGLE/WEDGE**

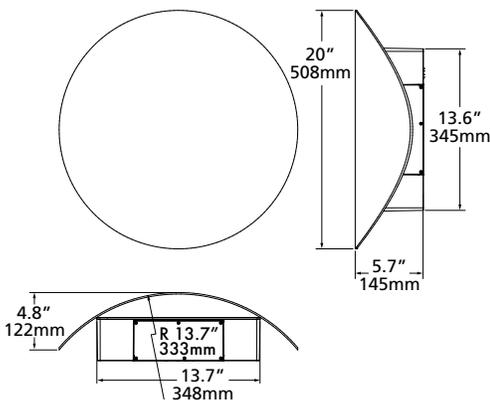


**E - ROUNDED EDGE**

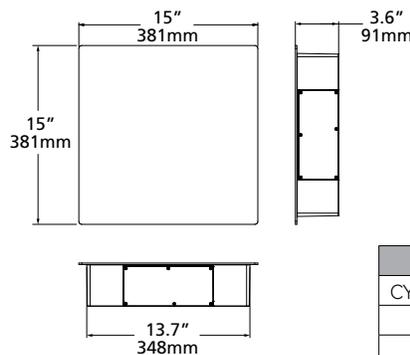
ADA approved.



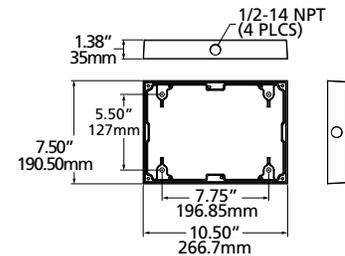
**C - CIRCLE/CURVED**



**CBM - CUSTOM BUILD MATERIAL MOUNT GHOST FASCIA**



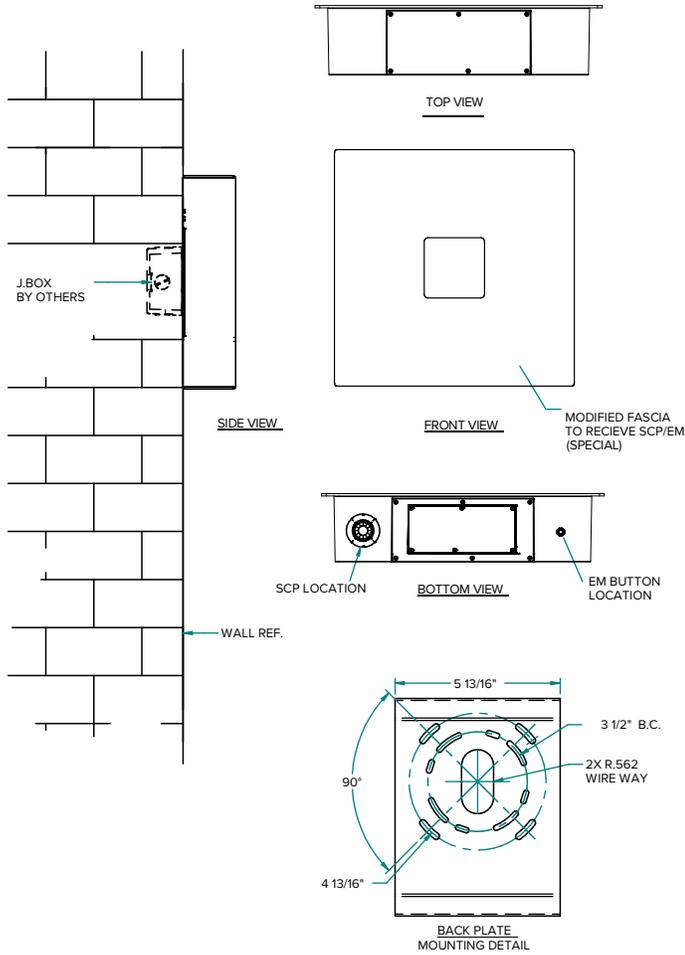
**SCB - SURFACE CONDUIT BOX**



	CY2 WEIGHT	FIXTURE + FASCIA WEIGHT	
CY2 base fixture	20 lb		
F	2.5 lb	CY2 + F	22.5 lb
R	2.5 lb	CY2 + R	22.5 lb
CB	3.5 lb	CY2 + CB	23.5 lb
CT	3.5 lb	CY2 + CT	23.5 lb
T	3.5 lb	CY2 + T	23.5 lb
E	3.5 lb	CY2 + E	23.5 lb
C	2.5 lb	CY2 + C	22.5 lb

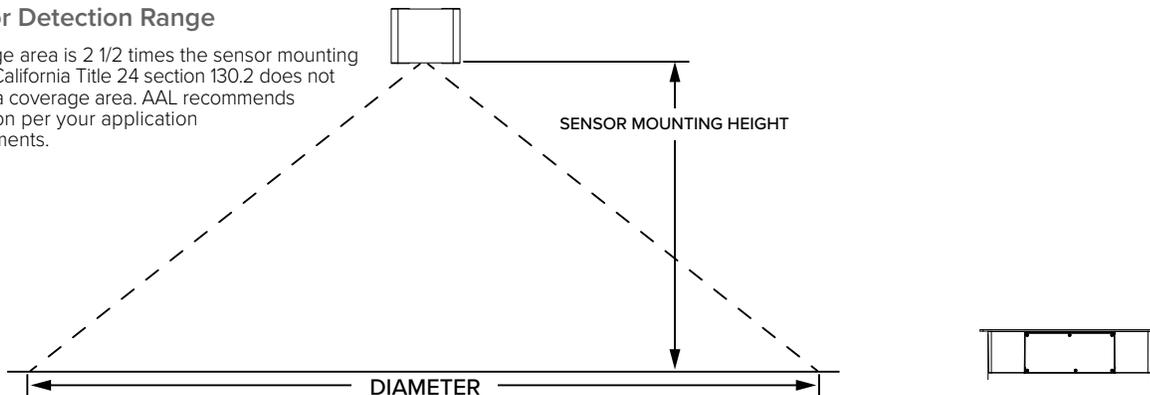
**DIMENSIONS (CONTINUED)**

**Flat Sensor Location**



**Sensor Detection Range**

Coverage area is 2 1/2 times the sensor mounting height. California Title 24 section 130.2 does not specify a coverage area. AAL recommends discretion per your application requirements.



# RATIO Series

AREA/SITE LIGHTER

## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



## CONTROL TECHNOLOGY



## SERVICE PROGRAMS

STOCK QS10

## SPECIFICATIONS

### CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

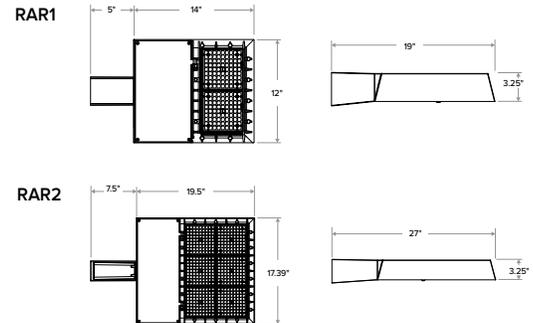
### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10 V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

## MICROSTRIKE | STRIKE OPTICS



	Weight	EPA at 0°
RAR1	13.5 lbs / 61 kg	.45ft. <sup>2</sup> / .13m <sup>2</sup>
RAR2	24 lbs / 10.9 kg	.55ft. <sup>2</sup> / .17m <sup>2</sup>

### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations on this page are DLC Qualified. Refer to [www.designlights.org](http://www.designlights.org) for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

### WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

 Gray Shading = Service Program  
 Limit of 15 luminaires


## MICRO STRIKE OPTICS - ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Micro Strike	<b>80L-25</b> 25W - 3,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>2</b> IES TYPE II	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>80L-39</b> 39W - 5,200 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>3</b> IES TYPE III	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>80L-50</b> 50W - 6,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>4W</b> IES TYPE IV	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>160L-70</b> 70W - 9,000 Lumens		<b>4F</b> IES TYPE IV Forward		<b>240</b> 240V
	<b>160L-100</b> 100W - 12,000 Lumens		<b>5QW</b> IES TYPE V		<b>277</b> 277V
	<b>160L-115</b> 115W - 15,000 Lumens				<b>347</b> 347V
	<b>160L-135</b> 135W - 18,000 Lumens				<b>480</b> 480V
<b>RAR2</b> Ratio Area Size 2 - Micro Strike	<b>320L-110</b> 110W - 15,000 Lumens				
	<b>320L-140</b> 140W - 18,000 Lumens				
	<b>320L-165</b> 165W - 21,000 Lumens				
	<b>480L-185</b> 185W - 24,000 Lumens				
	<b>480L-210</b> 210W - 27,000 Lumens				
	<b>480L-240</b> 240W - 30,000 Lumens				
	<b>480L-255</b> 255W - 36,000 Lumens				
	<b>480L-295</b> 295W - 42,000 Lumens				
<b>480L-340</b> 340W - 48,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Brone Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

## Notes:

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 70 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER STRIKE

## STRIKE OPTIC - ORDERING GUIDE

**Example:** RAR1-36L-39-3K7-2-UNV-ASQ-BLT-NXW-BC

 CATALOG # 

### ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Optics Rotation	Voltage
<b>RAR1</b> Ratio Area Size 1 - Strike Optics	<b>36L-39</b> 39W - 5,000 Lumens	<b>3K7</b> 3000K, 70 CRI	<b>FR</b> Auto Front Row	Blank for no rotation	<b>UNV</b> Universal 120-277V
	<b>36L-55</b> 55W - 7,000 Lumens	<b>4K7</b> 4000K, 70 CRI	<b>2</b> Type 2	<b>L</b> Optic rotation left	<b>120</b> 120V
	<b>36L-85</b> 85W - 10,000 Lumens	<b>5K7</b> 5000K, 70 CRI	<b>3</b> Type 3	<b>R</b> Optic rotation right	<b>208</b> 208V
	<b>36L-105</b> 105W - 12,000 Lumens	<b>3K8</b> 3000K, 80 CRI	<b>4F</b> Type 4 Forward		<b>240</b> 240V
	<b>36L-120</b> 120W - 13,000 Lumens	<b>4K8</b> 4000K, 80 CRI	<b>4W</b> Type 4 Wide		<b>277</b> 277V
	<b>72L-115</b> 115W - 14,000 Lumens	<b>5K8</b> 5000K, 80 CRI	<b>5QN</b> Type 5 Square Narrow		<b>347</b> 347V
	<b>72L-145</b> 145W - 17,000 Lumens		<b>5QW</b> Type 5 Square Wide		<b>480</b> 480V
	<b>RAR2</b> Ratio Area Size 2 - Strike Optics	<b>72L-180</b> 180W - 20,000 Lumens		<b>5QM</b> Type 5 Square Medium	
<b>72L-210</b> 210W - 24,000 Lumens			<b>5W</b> Type 5 Wide (Round)		
<b>72L-240</b> 240W - 26,000 Lumens			<b>5RW</b> Type 5 Rectangular		
<b>108L-215</b> 215W - 27,000 Lumens			<b>C</b> Corner Optic		
<b>108L-250</b> 250W - 30,000 Lumens			<b>TC</b> Tennis Court Optic		
<b>108L-280</b> 280W - 33,000 Lumens					
<b>108L-325</b> 325W - 37,000 Lumens					
<b>108L-365</b> 365W - 40,000 Lumens					

Mounting	Color	Control Options Network	Options
<b>ASQ</b> Arm mount for square pole/flat surface	<b>BLT</b> Black Matte Textured	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>BC</b> Backlight control
<b>ASQU</b> Universal arm mount for square pole, S2 Drill pattern. Does not include round pole adaptor	<b>BLS</b> Black Gloss Smooth	<b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>6,7</sup>	<b>F</b> Fusing <sup>5</sup>
<b>Mounting Round Poles</b>	<b>DBT</b> Dark Bronze Matte Textured	<b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>6,7</sup>	<b>TB</b> Terminal block
<b>A_</b> Arm mount for round pole <sup>1</sup> B3 drill pattern	<b>DBS</b> Dark Bronze Gloss Smooth	<b>Control Options Other</b>	<b>2PF</b> 2 power feed with 2 drivers <sup>2</sup>
<b>A_U</b> Universal arm mount for round pole <sup>1</sup>	<b>GTT</b> Graphite Matte Textured	<b>SCP_F</b> Programmable occupancy sensor <sup>3,4</sup>	
<b>Mounting Other</b>	<b>LGS</b> Light Grey Gloss Smooth	<b>7PR</b> 7-Pin twist lock receptacle	
<b>WB</b> Wall bracket	<b>PSS</b> Platinum Silver Smooth	<b>7PR-SC</b> 7-Pin receptacle with shorting cap	
<b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm	<b>WHT</b> White Matte Textured	<b>7PR-MD40F</b> Low voltage sensor for 7PR	
<b>K</b> Knuckle	<b>WHS</b> White Gloss Smooth	<b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>VGT</b> Verde Green Textured	<b>ADD</b> AutoDim Timer Based Dimming	
	<b>Color Option</b>	<b>ADT</b> AutoDim Time of Day Dimming	
	<b>CC</b> Custom Color	<b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	
		<b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>8</sup>	

**Notes:**

- 1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Not available with 25, 50, 255, 295 & 340W configurations
- 3 At least one SCPREMOTE required to program SCP motion sensor
- 4 Replace "\_" with 8F or 40F lens
- 5 Must specify voltage
- 6 Networked Controls cannot be combined with other control options
- 7 Not available with 2PF option
- 8 BTS and BTSO available for 50 Watts or higher and only on 120-277 voltage

# RATIO Series

AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

## CONTROLS FUNCTIONALITY



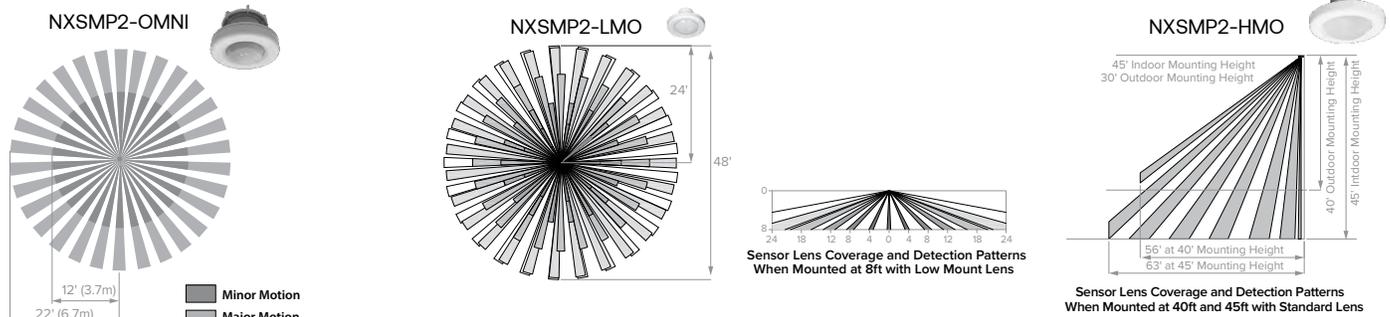
Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components	
	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height			
NX Wireless	NXOFM2-1R1D-UNV	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM2-1R1D-UNV
	NXW	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
Independent	BTSO-12F	-	-	-	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
	BTS-14F	-	-	-	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
	BTS-40F	-	-	-	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

## DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	*Passcode Factory Passcode: HubbN3T!	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

## NX WIRELESS COVERAGE PATTERNS



## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US)



Apple App



Google Play

# RATIO Series

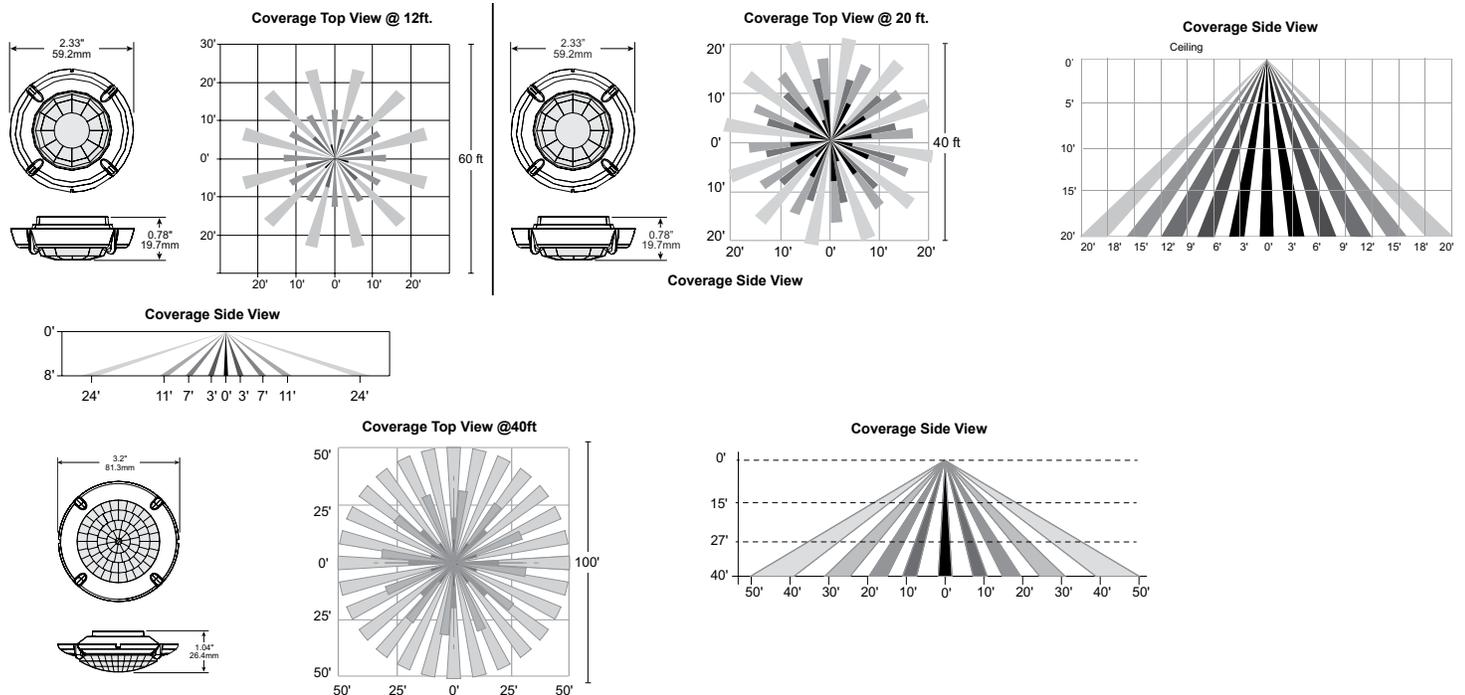
AREA/SITE LIGHTER

## OUTDOOR LIGHTING CONTROLS OPTIONS

### CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
SCP_F Sensor Control Programmable, sensor range, reference product specification for height selections	-	-	-	✓	✓	✓	✓	-	8ft or 20ft	SCP_F
ADD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD
ADT AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT
7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR
7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	7PR-SC
7PR-TL 7-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	7PR-TL

### COVERAGE PATTERNS FOR SCP\_F



### PROGRAMMED CONTROLS

#### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

#### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

# RATIO Series

AREA/SITE LIGHTER

## STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Mounting	Finish
RAR1-100-4K-3	12,000	100W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-100-4K-4W	12,000	100W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR1-135-4K-3	18,000	135W	160L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR1-135-4K-4W	18,000	135W	160L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze
RAR2-165-4K-3	21,000	165W	320L	4000K/70CRI	120-277V	Type 3	Square Arm	Bronze
RAR2-165-4K-4W	21,000	165W	320L	4000K/70CRI	120-277V	Type 4W	Square Arm	Bronze

## POLE COMBOS

Catalog Number	Pole	Single or Double Head	Fixture	Lumens	Wattage	Distribution	CCT/CRI	Mounting	Finish
RAR1-100-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-3	12,000	100W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-100-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-100-4K-4W	12,000	100W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-3	18,000	135W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR1-135-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR1-135-4K-4W	18,000	135W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20	20' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S20-2X	20' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25	25' Square Straight Steel	Single Head	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-3-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-3	21,000	165W	Type 3	4000K/70CRI	Square Arm	Dark Bronze
RAR2-165-4K7-4W-S25-2X	25' Square Straight Steel	Double Head (180°)	RAR2-165-4K-4W	21,000	165W	Type 4W	4000K/70CRI	Square Arm	Dark Bronze
SSSH-20-40-STK	20' Square Straight Steel	Pole Only	Not Included						
SSSH-25-40-STK	25' Square Straight Steel	Pole Only	Not Included						
SSSH-STK-4-KIT		Kit Only	Not Included						

# RATIO Series

AREA/SITE LIGHTER

## CONTROLS

### Control Options

#### Standalone

**SCPREMOTE** Order at least one per project location to program and control

#### Networked – Wireless

**WIR-RME-L** LightGRID+ External Fixture Module<sup>1,2</sup>

#### NX Networked – Wireless

**NXOFM-1R1D-UNV** NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- 1 Works with external networked photosensor
- 2 LightGRID+ Gateway required for system programming

## OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> ACC-O-RAR-ST1-SHLD-BC-36L	Back Light Control for RAR1 Strike 36L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-72L	Back Light Control for RAR2 Strike 72L
<input type="checkbox"/> ACC-O-RAR-ST2-SHLD-BC-108L	Back Light Control for RAR2 Strike 108L
<input type="checkbox"/> ACC-O-RAR-ST3-SHLD-BC-162L	Back Light Control for RAR3 Strike 162L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-80L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 80L
<input type="checkbox"/> ACC-O-RAR1-SHLD-BC-160L-X <sup>1</sup>	Back Light Control for RAR1 Micro Strike 160L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-320L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 320L
<input type="checkbox"/> ACC-O-RAR2-SHLD-BC-480L-X <sup>1</sup>	Back Light Control for RAR2 Micro Strike 480L
<input type="checkbox"/> ACC-O-RAR3-SHLD-BC-720L-X <sup>1</sup>	Back Light Control for RAR3 Micro Strike 720L

1 Replace X with distribution type ("2" for Type 2, "3" for Type 3, "4F" for Type 4F, Type "4W" for Type 4W)

## ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface <sup>2</sup>
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles <sup>1,2</sup>
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter <sup>1,2</sup>
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter <sup>2</sup>
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately <sup>2</sup>
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle <sup>2</sup>

1 Replace "\_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole

2 Replace "XX" with desired color/paint finish

# RATIO Series

AREA/SITE LIGHTER MICRO STRIKE

## PERFORMANCE DATA - MICRO STRIKE

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	25	25.4	2	3438	135	1	0	1	3445	136	1	0	1	3240	128	1	0	1
			3	3460	136	1	0	1	3467	136	1	0	1	3260	128	1	0	1
			4W	3406	134	1	0	1	3412	134	1	0	1	3209	126	1	0	1
			5QW	3483	137	2	0	1	3490	137	2	0	1	3282	129	2	0	1
	39	39	2	5263	139	1	0	2	5273	139	1	0	2	4960	131	1	0	2
			3	5297	139	1	0	2	5308	140	1	0	2	4991	131	1	0	2
			4W	5200	137	1	0	2	5210	137	1	0	2	4900	129	1	0	2
			5QW	5333	140	3	0	1	5344	141	3	0	1	5025	132	3	0	1
	50	49.8	2	6310	127	1	0	2	6323	127	1	0	2	5946	120	1	0	2
			3	6349	128	1	0	2	6362	128	1	0	2	5983	120	1	0	2
			4W	6233	125	1	0	2	6245	126	1	0	2	5873	118	1	0	2
			5QW	6392	129	3	0	1	6405	129	3	0	1	6023	121	3	0	1
	70	68.4	2	9486	139	1	0	2	9505	139	1	0	2	8938	131	1	0	2
			3	9544	140	1	0	2	9563	140	1	0	2	8993	131	1	0	2
			4W	9395	137	1	0	2	9414	138	1	0	2	8853	129	1	0	2
			5QW	9608	140	4	0	2	9628	141	4	0	2	9054	132	4	0	2
	100	90.0	2	11976	133	2	0	2	12000	133	2	0	2	11285	125	2	0	2
			3	12050	134	2	0	2	12074	134	2	0	2	11354	126	2	0	2
			4W	11861	132	2	0	2	11885	132	2	0	2	11177	124	2	0	2
			5QW	12131	135	4	0	2	12155	135	4	0	2	11431	127	4	0	2
	115	109.7	2	15572	142	2	0	2	15494	141	2	0	2	14871	136	2	0	2
			3	15833	144	2	0	2	15754	144	2	0	2	15121	138	2	0	2
			4W	15281	139	2	0	3	15205	139	2	0	3	14623	133	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	17971	135	3	0	3	17881	134	3	0	3	17163	129	3	0	3
			3	18272	137	2	0	2	18181	136	2	0	2	17450	131	2	0	2
			4W	17635	132	2	0	3	17547	132	2	0	3	16876	127	2	0	3
			5QW	18156	136	4	0	2	18065	136	4	0	2	17339	130	4	0	2

RAR2 Performance Data on next page

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - MICROSTRIKE (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	110	100.3	2	15326	153	2	0	3	15357	153	2	0	3	14442	144	2	0	3
			3	15421	154	2	0	3	15452	154	2	0	3	14531	145	2	0	3
			4W	15180	151	2	0	2	15210	152	2	0	2	14304	143	2	0	2
			5QW	15525	155	4	0	2	15556	155	4	0	2	14629	146	4	0	2
	140	133.2	2	19395	146	2	0	3	19434	146	2	0	3	18276	137	2	0	3
			3	19515	147	2	0	3	19554	147	2	0	3	18389	138	2	0	3
			4W	19210	144	2	0	3	19248	145	2	0	3	18101	136	2	0	3
			5QW	19647	148	5	0	3	19686	148	5	0	3	18513	139	5	0	3
	165	153.6	2	21651	141	3	0	3	21695	141	3	0	3	20402	133	3	0	3
			3	21785	142	3	0	3	21828	142	3	0	3	20527	134	3	0	3
			4W	21444	140	3	0	3	21487	140	3	0	3	20206	132	3	0	3
			5QW	21932	143	5	0	3	21976	143	5	0	3	20666	135	5	0	3
	185	174.5	2	26046	149	3	0	3	26098	150	3	0	3	24543	141	3	0	3
			3	26207	150	3	0	3	26259	150	3	0	3	24694	142	3	0	3
			4W	25797	148	3	0	4	25849	148	3	0	4	24308	139	3	0	4
			5QW	26384	151	5	0	3	26437	152	5	0	3	24861	143	5	0	3
	210	198.2	2	28848	145	3	0	4	28906	146	3	0	4	27184	137	3	0	4
			3	29027	146	3	0	4	29085	147	3	0	4	27351	138	3	0	4
			4W	28572	144	3	0	4	28630	144	3	0	4	26924	136	3	0	4
			5QW	29222	147	5	0	4	29281	148	5	0	4	27536	139	5	0	4
	240	226.9	2	32087	141	3	0	4	32151	142	3	0	4	30235	133	3	0	4
			3	32285	142	3	0	4	32350	143	3	0	4	30422	134	3	0	4
			4W	31780	140	3	0	4	31844	140	3	0	4	29946	132	3	0	4
			5QW	32503	143	5	0	4	32568	144	5	0	4	30627	135	5	0	4
	255	257.0	2	37040	144	3	0	4	36854	143	3	0	4	35373	138	3	0	4
			3	37660	147	3	0	4	37472	146	3	0	4	35966	140	3	0	4
			4W	36347	141	3	0	5	36166	140	3	0	5	34782	135	3	0	5
			5QW	37420	146	5	0	4	37233	145	5	0	4	35736	139	5	0	4
	295	294.0	2	41733	142	3	0	4	41524	141	3	0	4	39855	136	3	0	4
			3	42432	144	3	0	4	42220	144	3	0	4	40523	138	3	0	4
			4W	40953	139	3	0	5	40748	139	3	0	5	39190	133	3	0	5
			5QW	42162	143	5	0	4	41951	143	5	0	4	40264	137	5	0	4
	340	347.1	2	48392	139	4	0	5	48150	139	4	0	5	46215	133	4	0	5
			3	49203	142	3	0	4	48957	141	3	0	4	46989	135	3	0	4
			4W	47488	137	4	0	5	47261	136	4	0	5	45443	131	4	0	5
			5QW	48889	141	5	0	5	48645	140	5	0	5	46689	135	5	0	5

\* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	39	39.1	2	5385	138	1	0	1	5369	137	1	0	1	5079	130	1	0	1
			3	5331	136	1	0	2	5315	136	1	0	2	5028	129	1	0	2
			4F	5413	138	1	0	2	5396	137	1	0	2	5105	130	1	0	2
			4W	5341	137	1	0	2	5325	136	1	0	2	5037	129	1	0	2
			5QM	5508	140	2	0	1	5492	140	2	0	1	5195	132	2	0	1
			5QN	5512	140	2	0	0	5495	140	2	0	0	5198	132	2	0	0
			5QW	5118	131	3	0	2	5102	130	3	0	2	4827	123	3	0	2
			5RW	5390	138	3	0	3	5374	137	3	0	3	5084	130	3	0	3
			5W	5350	137	3	0	1	5334	136	3	0	1	5046	129	3	0	1
			C	5002	120	1	0	2	5002	120	1	0	2	5002	128	1	0	2
			FR	5547	141	1	0	1	5530	141	1	0	1	5231	133	1	0	1
			TC	5498	140	1	0	1	5481	140	1	0	1	5185	132	1	0	1
	55	56.8	2	7350	129	1	0	2	7329	129	1	0	2	6933	122	1	0	2
			3	7276	128	1	0	2	7255	128	1	0	2	6863	121	1	0	2
			4F	7388	130	1	0	2	7366	130	1	0	2	6968	123	1	0	2
			4W	7290	128	1	0	3	7269	128	1	0	3	6876	121	1	0	2
			5QM	7519	132	3	0	1	7496	132	3	0	1	7092	125	3	0	1
			5QN	7523	132	3	0	0	7501	132	3	0	0	7096	125	3	0	0
			5QW	6986	123	3	0	2	6965	123	3	0	2	6589	116	3	0	2
			5RW	7358	130	3	0	3	7336	129	3	0	3	6940	122	3	0	3
			5W	7303	129	3	0	2	7281	128	3	0	2	6888	121	3	0	2
			C	6828	113	1	0	2	6828	113	1	0	2	6828	120	1	0	2
			FR	7571	133	1	0	1	7548	133	1	0	1	7141	126	1	0	1
			TC	7504	132	1	0	1	7482	132	1	0	1	7078	125	1	0	1
	85	83.6	2	10081	121	2	0	2	10051	120	2	0	2	9508	114	2	0	2
			3	9979	119	2	0	2	9949	119	2	0	2	9412	113	1	0	2
			4F	10132	121	1	0	2	10102	121	1	0	2	9557	114	1	0	2
			4W	9998	120	1	0	3	9968	119	1	0	3	9430	113	1	0	3
			5QM	10312	123	3	0	1	10281	123	3	0	1	9726	116	3	0	1
			5QN	10318	123	3	0	0	10287	123	3	0	0	9732	116	3	0	0
			5QW	9580	115	4	0	3	9552	114	4	0	3	9036	108	4	0	3
			5RW	10090	121	4	0	4	10060	120	4	0	4	9517	114	3	0	3
			5W	10016	120	4	0	2	9986	119	4	0	2	9447	113	3	0	2
C			9364	105	2	0	2	9364	105	2	0	2	9364	112	2	0	2	
FR			10383	124	1	0	1	10352	124	1	0	1	9793	117	1	0	1	
TC			10291	123	1	0	1	10261	123	1	0	1	9707	116	1	0	1	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR1	105	108.2	2	12321	114	2	0	2	12284	114	2	0	2	11621	107	2	0	2
			3	12197	113	2	0	3	12160	112	2	0	3	11504	106	2	0	3
			4F	12384	114	1	0	3	12347	114	1	0	3	11680	108	1	0	2
			4W	12220	113	2	0	3	12183	113	2	0	3	11526	107	1	0	3
			5QM	12603	116	3	0	2	12565	116	3	0	2	11887	110	3	0	2
			5QN	12611	117	3	0	0	12573	116	3	0	0	11894	110	3	0	0
			5QW	11709	108	4	0	3	11674	108	4	0	3	11044	102	4	0	3
			5RW	12333	114	4	0	4	12296	114	4	0	4	11632	108	4	0	4
			5W	12241	113	4	0	2	12205	113	4	0	2	11546	107	4	0	2
			C	11445	99	2	0	2	11445	99	2	0	2	11445	106	2	0	2
			FR	12690	117	1	0	1	12653	117	1	0	1	11969	111	1	0	1
	TC	12578	116	1	0	2	12541	116	1	0	2	11864	110	1	0	2		
	120	120.9	2	13398	111	2	0	2	13358	110	2	0	2	12636	105	2	0	2
			3	13263	110	2	0	3	13223	109	2	0	3	12509	103	2	0	3
			4F	13467	111	1	0	3	13426	111	1	0	3	12701	105	1	0	3
			4W	13288	110	2	0	3	13248	110	2	0	3	12533	104	2	0	3
			5QM	13705	113	3	0	2	13664	113	3	0	2	12926	107	3	0	2
			5QN	13713	113	4	0	0	13672	113	4	0	0	12934	107	3	0	0
			5QW	12733	105	4	0	3	12695	105	4	0	3	12009	99	4	0	3
			5RW	13411	111	4	0	4	13371	111	4	0	4	12649	105	4	0	4
			5W	13312	110	4	0	2	13272	110	4	0	2	12555	104	4	0	2
			C	12446	96	2	0	2	12446	96	2	0	2	12446	103	2	0	2
FR			13800	114	1	0	1	13758	114	1	0	1	13016	108	1	0	1	
TC	13678	113	1	0	2	13637	113	1	0	2	12901	107	1	0	2			

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	115	112.1	2	14701	131	2	0	2	14657	131	2	0	2	13866	124	2	0	2
			3	14553	130	2	0	3	14509	129	2	0	3	13726	122	2	0	3
			4F	14776	132	1	0	3	14732	131	1	0	3	13937	124	1	0	3
			4W	14581	130	2	0	3	14537	130	2	0	3	13752	123	2	0	3
			5QM	15038	134	3	0	2	14993	134	3	0	2	14183	127	3	0	2
			5QN	15047	134	4	0	0	15002	134	4	0	0	14192	127	4	0	0
			5QW	13971	125	4	0	3	13929	124	4	0	3	13177	118	4	0	3
			5RW	14715	131	4	0	4	14671	131	4	0	4	13879	124	4	0	4
			5W	14606	130	4	0	2	14563	130	4	0	2	13776	123	4	0	2
			C	14571	130	2	0	3	14571	130	2	0	3	13656	122	2	0	3
			FR	15142	135	2	0	1	15097	135	2	0	1	14282	127	1	0	1
			TC	15008	134	2	0	2	14963	133	2	0	2	14155	126	1	0	2
	145	141.2	2	17797	126	3	0	3	17744	126	3	0	3	16786	119	3	0	3
			3	17618	125	2	0	3	17565	124	2	0	3	16617	118	2	0	3
			4F	17889	127	2	0	3	17835	126	2	0	3	16872	119	2	0	3
			4W	17652	125	2	0	4	17599	125	2	0	4	16649	118	2	0	4
			5QM	18205	129	4	0	2	18151	129	4	0	2	17170	122	4	0	2
			5QN	18216	129	4	0	0	18162	129	4	0	0	17181	122	4	0	0
			5QW	16914	120	4	0	3	16863	119	4	0	3	15953	113	4	0	3
			5RW	17815	126	4	0	4	17761	126	4	0	4	16802	119	4	0	4
			5W	17683	125	4	0	2	17630	125	4	0	2	16678	118	4	0	2
			C	17640	125	3	0	3	17640	125	3	0	3	16532	117	3	0	3
			FR	18331	130	2	0	2	18276	129	2	0	2	17290	122	2	0	2
			TC	18169	129	2	0	2	18115	128	2	0	2	17137	121	2	0	2
	180	177.0	2	21314	120	3	0	3	21250	120	3	0	3	20102	114	3	0	3
			3	21099	119	3	0	4	21036	119	3	0	4	19900	112	3	0	4
			4F	21423	121	2	0	4	21359	121	2	0	4	20206	114	2	0	4
			4W	21139	119	2	0	4	21076	119	2	0	4	19938	113	2	0	4
			5QM	21802	123	4	0	2	21737	123	4	0	2	20563	116	4	0	2
			5QN	21815	123	4	0	0	21750	123	4	0	0	20575	116	4	0	0
			5QW	20256	114	5	0	4	20195	114	5	0	4	19104	108	5	0	3
			5RW	21334	121	5	0	5	21271	120	5	0	5	20122	114	5	0	5
			5W	21176	120	5	0	3	21113	119	5	0	3	19973	113	5	0	3
C			21125	119	3	0	4	21125	119	3	0	4	19799	112	3	0	4	
FR			21953	124	2	0	2	21888	124	2	0	2	20706	117	2	0	2	
TC			21759	123	2	0	2	21694	123	2	0	2	20523	116	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	210	217.3	2	24102	111	3	0	3	24030	111	3	0	3	22732	105	3	0	3
			3	23859	110	3	0	4	23788	109	3	0	4	22503	104	3	0	4
			4F	24226	111	2	0	4	24153	111	2	0	4	22849	105	2	0	4
			4W	23905	110	3	0	5	23833	110	3	0	5	22546	104	2	0	4
			5QM	24654	113	4	0	2	24581	113	4	0	2	23253	107	4	0	2
			5QN	24669	114	5	0	1	24595	113	5	0	1	23267	107	5	0	0
			5QW	22905	105	5	0	4	22837	105	5	0	4	21604	99	5	0	4
			5RW	24126	111	5	0	5	24053	111	5	0	5	22754	105	5	0	5
			5W	23947	110	5	0	3	23875	110	5	0	3	22586	104	5	0	3
			C	23889	110	3	0	4	23889	110	3	0	4	22389	103	3	0	4
			FR	24825	114	2	0	2	24751	114	2	0	2	23414	108	2	0	2
			TC	24606	113	2	0	2	24532	113	2	0	2	23207	107	2	0	2
	240	238.6	2	26781	112	3	0	4	26701	112	3	0	4	25259	106	3	0	3
			3	26511	111	3	0	4	26432	111	3	0	4	25005	105	3	0	4
			4F	26918	113	2	0	4	26838	112	2	0	4	25389	106	2	0	4
			4W	26562	111	3	0	5	26483	111	3	0	5	25053	105	3	0	5
			5QM	27395	115	4	0	2	27313	114	4	0	2	25838	108	4	0	2
			5QN	27411	115	5	0	1	27329	115	5	0	1	25853	108	5	0	1
			5QW	25451	107	5	0	4	25375	106	5	0	4	24005	101	5	0	4
			5RW	26807	112	5	0	5	26727	112	5	0	5	25284	106	5	0	5
			5W	26609	112	5	0	3	26529	111	5	0	3	25097	105	5	0	3
			C	26544	111	3	0	4	26544	111	3	0	4	24878	104	3	0	4
			FR	27585	116	2	0	2	27502	115	2	0	2	26017	109	2	0	2
			TC	27341	115	2	0	2	27259	114	2	0	2	25787	108	2	0	2
	215	215.0	2	26697	124	3	0	4	26617	124	3	0	4	25180	117	3	0	3
			3	26428	123	3	0	4	26349	123	3	0	4	24926	116	3	0	4
			4F	26834	125	2	0	4	26754	124	2	0	4	25309	118	2	0	4
			4W	26479	123	3	0	5	26400	123	3	0	5	24974	116	3	0	5
			5QM	27309	127	4	0	2	27227	127	4	0	2	25757	120	4	0	2
			5QN	27325	127	5	0	1	27243	127	5	0	1	25772	120	5	0	1
			5QW	25372	118	5	0	4	25296	118	5	0	4	23930	111	5	0	4
			5RW	26723	124	5	0	5	26643	124	5	0	5	25204	117	5	0	5
			5W	26525	123	5	0	3	26446	123	5	0	3	25018	116	5	0	3
C			26461	123	3	0	4	26461	123	3	0	4	24799	115	3	0	4	
FR			27498	128	2	0	2	27416	128	2	0	2	25935	121	2	0	2	
TC			27255	127	2	0	2	27174	126	2	0	2	25706	120	2	0	2	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	250	247.5	2	30249	122	3	0	4	30159	122	3	0	4	28530	115	3	0	4
			3	29944	121	3	0	4	29855	121	3	0	4	28243	114	3	0	4
			4F	30404	123	2	0	5	30313	122	2	0	5	28676	116	2	0	5
			4W	30002	121	3	0	5	29912	121	3	0	5	28297	114	3	0	5
			5QM	30942	125	5	0	3	30849	125	5	0	3	29184	118	5	0	2
			5QN	30961	125	5	0	1	30868	125	5	0	1	29201	118	5	0	1
			5QW	28747	116	5	0	4	28661	116	5	0	4	27113	110	5	0	4
			5RW	30278	122	5	0	5	30188	122	5	0	5	28558	115	5	0	5
			5W	30054	121	5	0	4	29964	121	5	0	4	28346	115	5	0	3
			C	29982	121	3	0	4	29982	121	3	0	4	28099	114	3	0	4
			FR	31157	126	2	0	2	31063	126	2	0	2	29386	119	2	0	2
			TC	30881	125	3	0	3	30789	124	3	0	3	29126	118	3	0	2
	280	274.6	2	32729	119	3	0	4	32631	119	3	0	4	30869	112	3	0	4
			3	32400	118	3	0	5	32303	118	3	0	5	30558	111	3	0	5
			4F	32897	120	2	0	5	32799	119	2	0	5	31028	113	2	0	5
			4W	32462	118	3	0	5	32365	118	3	0	5	30617	112	3	0	5
			5QM	33479	122	5	0	3	33379	122	5	0	3	31577	115	5	0	3
			5QN	33499	122	5	0	1	33399	122	5	0	1	31596	115	5	0	1
			5QW	31104	113	5	0	5	31011	113	5	0	5	29337	107	5	0	4
			5RW	32761	119	5	0	5	32663	119	5	0	5	30899	113	5	0	5
			5W	32519	118	5	0	4	32421	118	5	0	4	30671	112	5	0	4
			C	32440	118	3	0	5	32440	118	3	0	5	30403	111	3	0	5
			FR	33711	123	2	0	2	33610	122	2	0	2	31795	116	2	0	2
			TC	33413	122	3	0	3	33313	121	3	0	3	31515	115	3	0	3
	325	325.0	2	36969	114	3	0	4	36858	113	3	0	4	34868	107	3	0	4
			3	36597	113	3	0	5	36487	112	3	0	5	34517	106	3	0	5
			4F	37159	114	3	0	5	37047	114	3	0	5	35047	108	3	0	5
			4W	36667	113	3	0	5	36557	112	3	0	5	34583	106	3	0	5
			5QM	37816	116	5	0	3	37703	116	5	0	3	35667	110	5	0	3
			5QN	37839	116	5	0	1	37726	116	5	0	1	35688	110	5	0	1
			5QW	35133	108	5	0	5	35028	108	5	0	5	33137	102	5	0	5
			5RW	37005	114	5	0	5	36894	114	5	0	5	34902	107	5	0	5
			5W	36731	113	5	0	4	36621	113	5	0	4	34643	107	5	0	4
C			36642	113	3	0	5	36642	113	3	0	5	34341	106	3	0	5	
FR			38078	117	3	0	2	37964	117	3	0	2	35914	111	3	0	2	
TC			37742	116	3	0	3	37629	116	3	0	3	35597	110	3	0	3	

# RATIO Series

AREA/SITE LIGHTER

## PERFORMANCE DATA - STRIKE OPTIC (CONT'D)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RAR2	365	357.7	2	40171	112	3	0	4	40051	112	3	0	4	37888	106	3	0	4
			3	39767	111	3	0	5	39648	111	3	0	5	37507	105	3	0	5
			4F	40377	113	3	0	5	40257	113	3	0	5	38083	106	3	0	5
			4W	39843	111	3	0	5	39724	111	3	0	5	37579	105	3	0	5
			5QM	41092	115	5	0	3	40969	115	5	0	3	38756	108	5	0	3
			5QN	41117	115	5	0	1	40994	115	5	0	1	38780	108	5	0	1
			5QW	38177	107	5	0	5	38063	106	5	0	5	36007	101	5	0	5
			5RW	40210	112	5	0	5	40090	112	5	0	5	37925	106	5	0	5
			5W	39913	112	5	0	4	39793	111	5	0	4	37644	105	5	0	4
			C	39816	111	3	0	5	39816	111	3	0	5	37316	104	3	0	5
			FR	41377	116	3	0	2	41253	115	3	0	2	39025	109	3	0	2
			TC	41011	115	3	0	3	40888	114	3	0	3	38680	108	3	0	3

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - MICROSTRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR1	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
	39	120	0.32	38.0
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.42	49.8
		208	0.24	
		240	0.21	
		277	0.18	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
	100	120	0.75	90.0
		208	0.43	
		240	0.38	
		277	0.32	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
		480	0.28	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RAR2	110	120	0.84	100.3
		208	0.48	
		240	0.42	
		277	0.36	
	140	120	1.11	133.2
		208	0.64	
		240	0.56	
		277	0.48	
	165	120	1.28	153.6
		208	0.74	
		240	0.64	
	185	120	1.45	174.5
		208	0.84	
		240	0.73	
	210	120	1.65	198.3
		208	0.95	
		240	0.83	
		277	0.72	
	240	120	1.89	226.9
		208	1.09	
		240	0.95	
		277	0.82	
	255	120	2.14	257.0
		208	1.24	
		240	1.07	
		277	0.93	
		347	0.74	
	295	120	2.45	294.0
		208	1.41	
		240	1.23	
		277	1.06	
		347	0.85	
		480	0.61	
	340	120	2.89	347.1
		208	1.67	
		240	1.45	
277		1.25		
347		1.00		
		480	0.72	

# RATIO Series

AREA/SITE LIGHTER

## ELECTRICAL DATA - STRIKE OPTICS

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36	39	120	0.326	39.1
		208	0.188	
		240	0.163	
		277	0.141	
		347	0.113	
		480	0.081	
	55	120	0.473	56.8
		208	0.273	
		240	0.237	
		277	0.205	
		347	0.164	
		480	0.118	
	85	120	0.697	83.6
		208	0.402	
		240	0.348	
		277	0.302	
		347	0.241	
		480	0.174	
	105	120	0.902	108.2
		208	0.520	
		240	0.451	
		277	0.391	
		347	0.312	
		480	0.225	
120	120	1.008	120.9	
	208	0.581		
	240	0.504		
	277	0.436		
	347	0.348		
	480	0.252		

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
72L	115	120	0.934	112.1
		208	0.539	
		240	0.467	
		277	0.405	
		347	0.323	
		480	0.234	
	145	120	1.177	141.2
		208	0.679	
		240	0.588	
		277	0.510	
		347	0.407	
		480	0.294	
	180	120	1.475	177.0
		208	0.851	
		240	0.738	
		277	0.639	
		347	0.510	
		480	0.369	
	210	120	1.811	217.3
		208	1.045	
		240	0.905	
		277	0.784	
		347	0.626	
		480	0.453	
240	120	1.988	238.6	
	208	1.147		
	240	0.994		
	277	0.861		
	347	0.688		
	480	0.497		
108L	215	120	1.792	215.0
		208	1.034	
		240	0.896	
		277	0.776	
		347	0.620	
		480	0.448	
	250	120	2.063	247.5
		208	1.190	
		240	1.031	
		277	0.894	
		347	0.713	
		480	0.516	
	280	120	2.288	274.6
		208	1.320	
		240	1.144	
		277	0.991	
		347	0.791	
		480	0.572	
	325	120	2.708	325.0
		208	1.563	
		240	1.354	
		277	1.173	
		347	0.937	
		480	0.677	
365	120	2.981	357.7	
	208	1.720		
	240	1.490		
	277	1.291		
	347	1.031		
	480	0.745		

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.95	0.93	0.86	238,000
40°C / 104°F	0.99	0.96	0.95	0.93	0.85	225,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	-	0.841	-
3000K	0.977	0.861	0.647
3500K	-	0.900	-
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

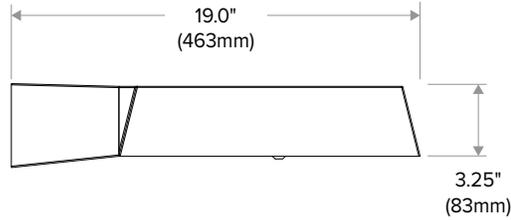
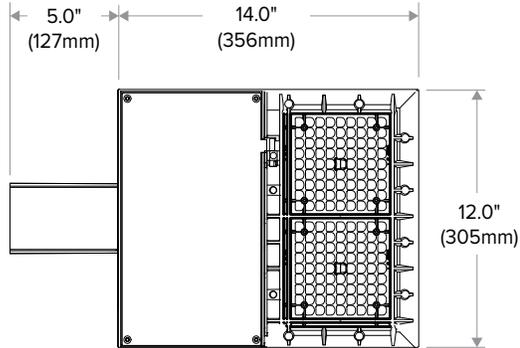
Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	<a href="#">See Amber Spec Sheet</a>		

# RATIO Series

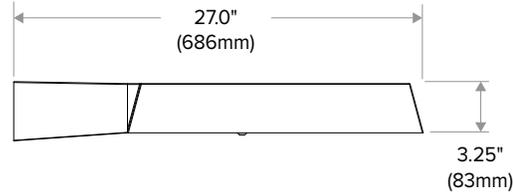
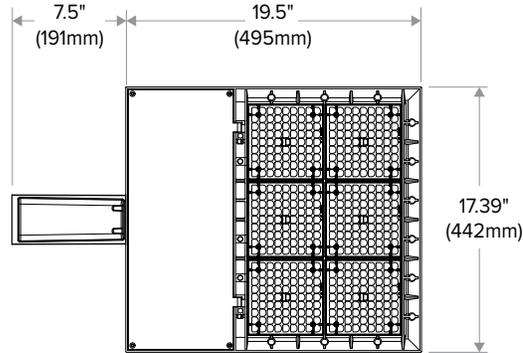
AREA/SITE LIGHTER

## DIMENSIONS

RAR1

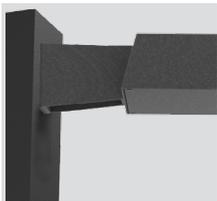


RAR2



## ADDITIONAL INFORMATION

### MOUNTING



**Arm Mount – ASQ:** Fixture ships with integral arm for ease of installation.



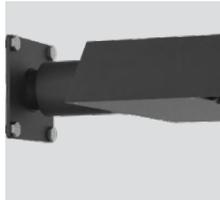
**Knuckle –** Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



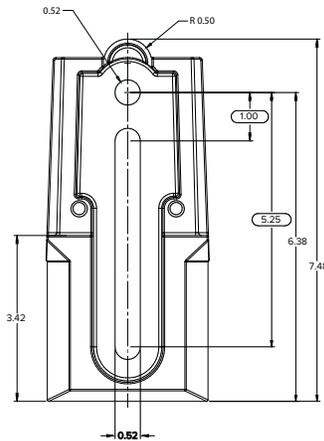
**Universal Mounting –** Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and S2 and B3 drill patterns



**MAF –** Fits 2-3/8" OD arms Roadway applications.



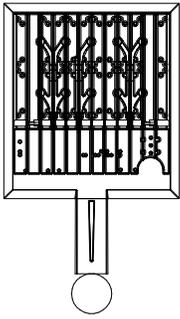
**Wall Mount –** Wall mount bracket designed for building mount applications.



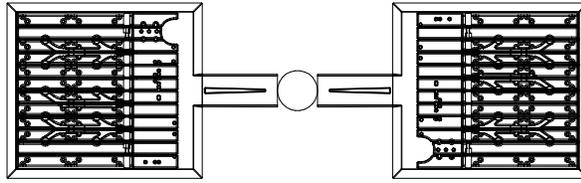
# RATIO Series

AREA/SITE LIGHTER

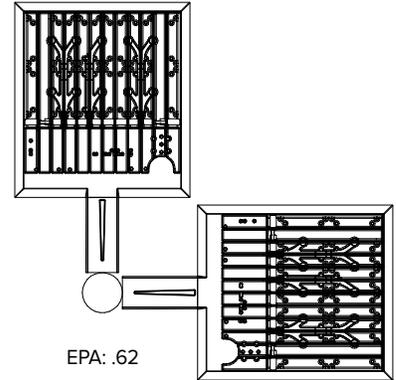
## EPA (RAR1)



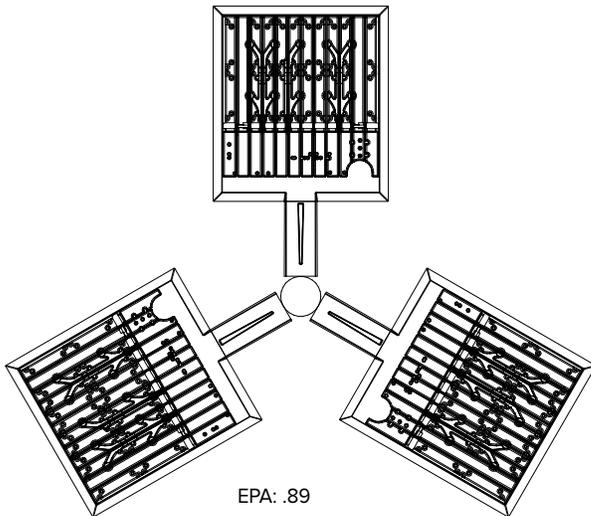
EPA Knuckle Mount 0 degrees: .43  
 EPA Knuckle Mount 30 degrees: .55  
 EPA Arm Mount: 0 degrees .45



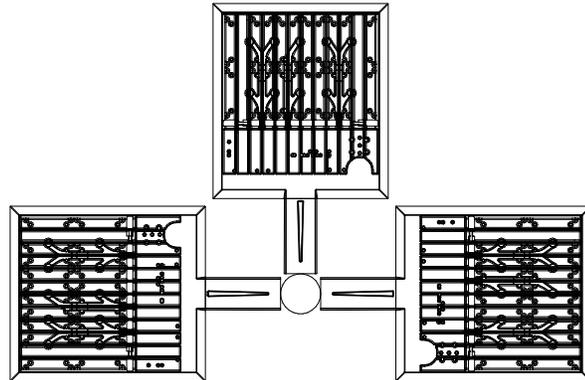
EPA: .99



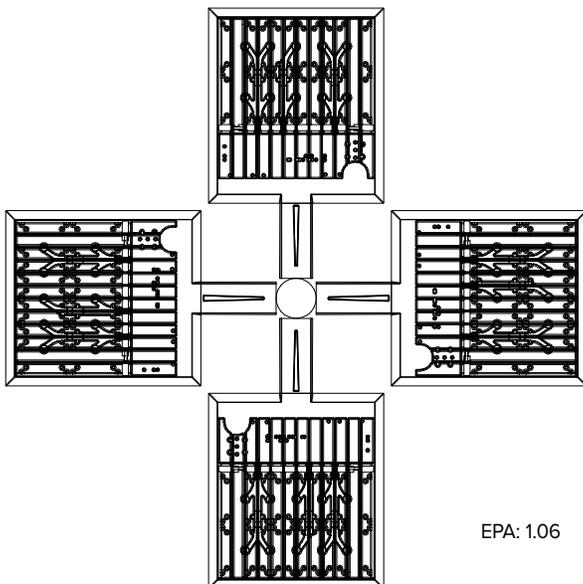
EPA: .62



EPA: .89



EPA: .99

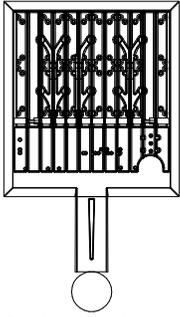


EPA: 1.06

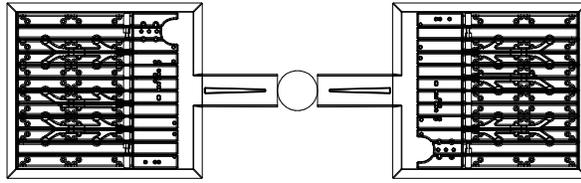
# RATIO Series

AREA/SITE LIGHTER

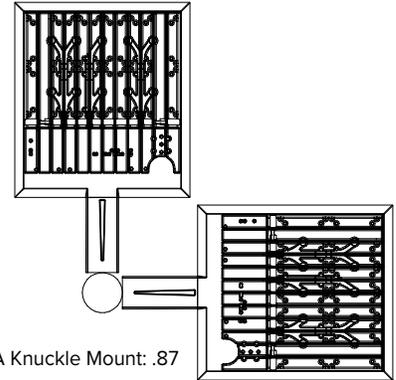
## EPA (RAR2)



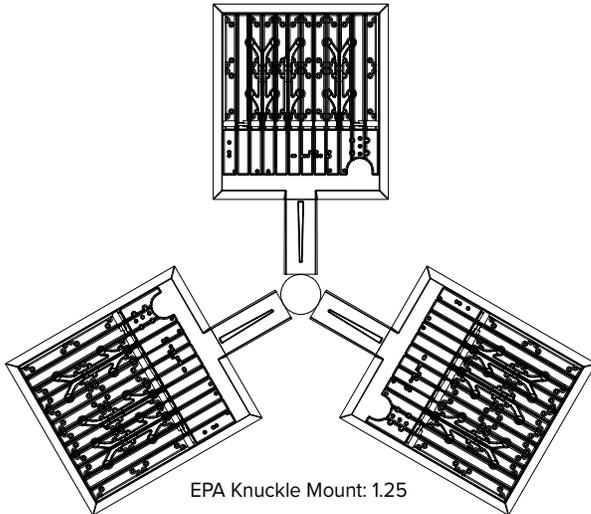
EPA Knuckle Mount: .52  
EPA Arm Mount: .55



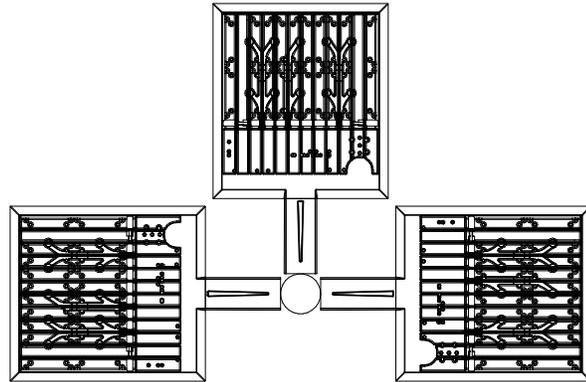
EPA: 1.486



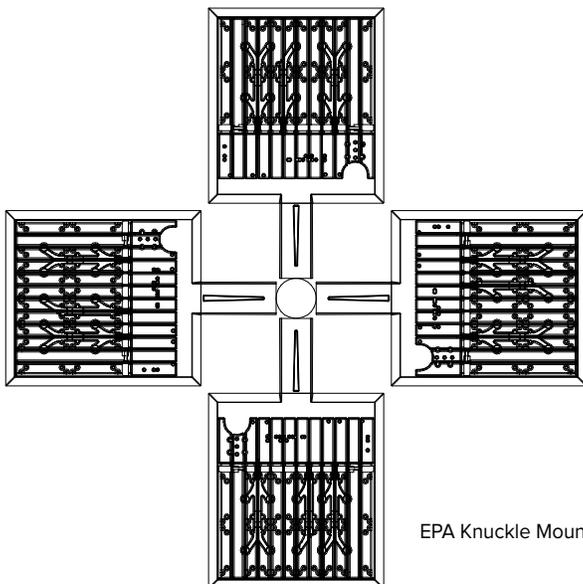
EPA Knuckle Mount: .87



EPA Knuckle Mount: 1.25



EPA Knuckle Mount: 1.41



EPA Knuckle Mount: 1.56

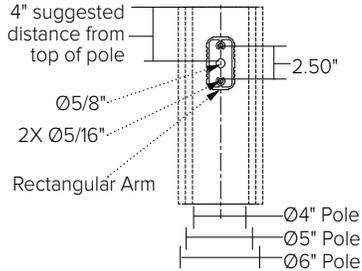
# RATIO Series

AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

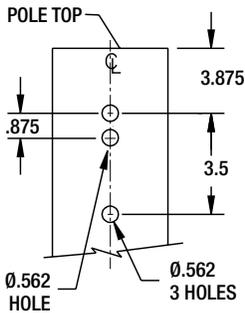
### ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



### UNIVERSAL MOUNTING (ASQU)

Compatible with pole drill pattern S2



## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

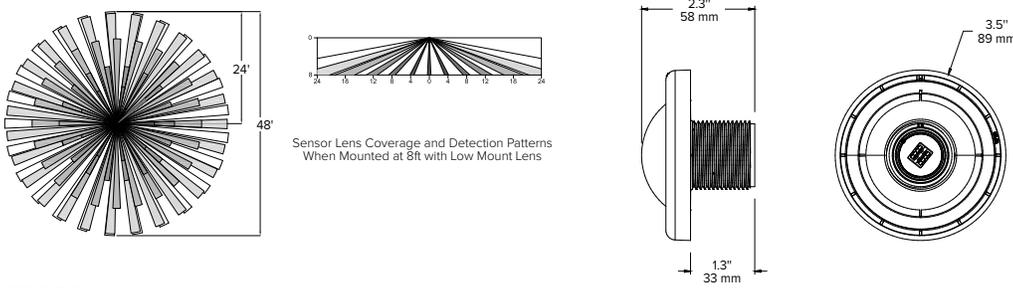
ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

# RATIO Series

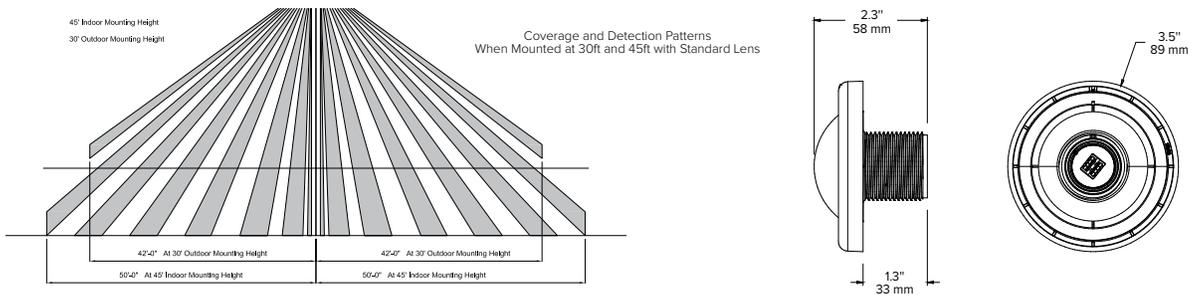
AREA/SITE LIGHTER

## ADDITIONAL INFORMATION (CONT'D)

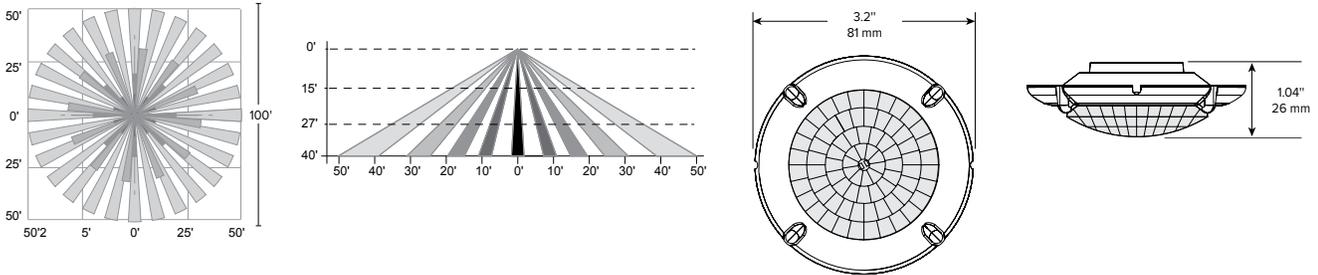
### NXSP-14F



### NXSP-30F



### SCP-40F



### RAR1 EPA

RAR-1	
EPA at 0°	EPA at 30°
.45ft. <sup>2</sup> .13m <sup>2</sup>	.56ft. <sup>2</sup> .17m <sup>2</sup>

### RAR2 EPA

RAR-2	
EPA at 0°	EPA at 30°
.55ft. <sup>2</sup> .17m <sup>2</sup>	1.48ft. <sup>2</sup> .45m <sup>2</sup>

### SHIPPING

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
RAR1	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
RAR2	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

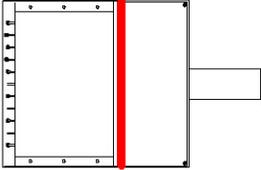
# RATIO Series

AREA/SITE LIGHTER

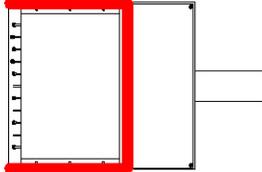
## ADDITIONAL INFORMATION (CONT'D)

### RATIO HOUSE SIDE SHIELD

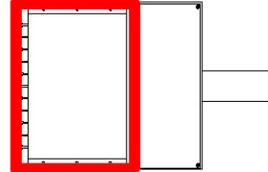
RARx HSS-90-B-xx



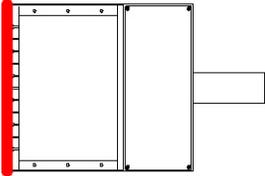
RARx HSS-270-BSS-xx



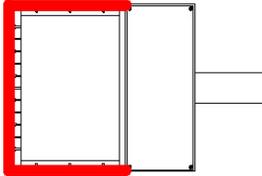
RARx HSS-360-xx



RARx HSS-90-F-xx

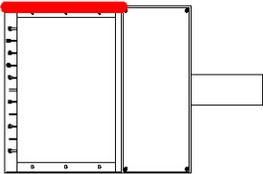


RARx HSS-270-FSS-xx

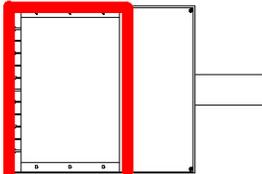


**Note:** Not to be used with Occupancy Sensors as the shield may block the light to the sensor

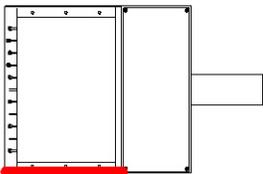
RARx HSS-90-S-xx



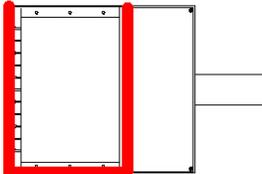
RARx HSS-270-FSB-xx



RARx HSS-90-S-xx



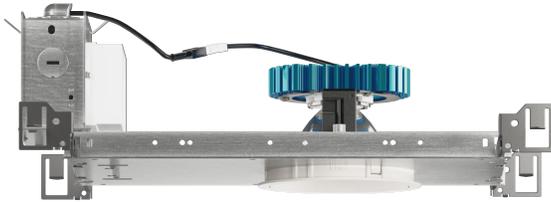
RARx HSS-270-FSB-xx



PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## NU4

### 4" Round Downlight Standard White



Trim



Trimless



Trimless Millwork

20° - 65° BEAM (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	990LM @30K/80CRI	9W
15LM	1485LM @30K/80CRI	12W
20LM	2095LM @30K/80CRI	17W
25LM	2540LM @30K/80CRI	21W
30LM	3090LM @30K/80CRI	26W
35LM	3580LM @30K/80CRI	31W
40LM	4180LM @30K/80CRI	37W
10LM	840LM @30K/90/CRI	9W
15LM	1260LM @30K/90/CRI	12W
20LM	1780LM @30K/90/CRI	17W
25LM	2160LM @30K/90/CRI	21W
30LM	2620LM @30K/90/CRI	26W
35LM	3040LM @30K/90/CRI	31W
40LM	3550LM @30K/90/CRI	37W
Notes	Delivered lumens based on 25D optic with no lens, (see page 2)	

12° BEAM (Note: Specifications are subject to change without notice)		
10mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	810LM @30K/80CRI	9W
15LM	1580LM @30K/80CRI	17W
20LM	2010LM @30K/80CRI	23W
10LM	690LM @30K/90CRI	9W
15LM	1340LM @30K/90CRI	17W
20LM	1710LM @30K/90CRI	23W
Notes	Delivered lumens based on 12D optic no lens, (see page 2)	

8° BEAM (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	790LM @30K/80CRI	12W
15LM	1250LM @30K/80CRI	20W
10LM	670LM @30K/90CRI	12W
15LM	1060LM @30K/90CRI	20W
Notes	Delivered lumens based on 8D optic no lens, (see page 2)	

#### FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 8° - 110° optical beam control
- UGR < 19
- Up to 110 LPW
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

#### DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- DMX dim to zero
- Lutron Hi-lume 1% 3-wire/Ecosystem
- Lutron athena wireless node
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi dimming to 1.0%
- NLight control interface dimming to 0%

#### CONSTRUCTION

- Lexan™ (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-3/4"

#### LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L<sub>70</sub> > 66,000 hrs
- 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L<sub>70</sub> > 66,000 hrs

#### LISTING

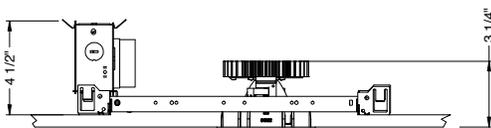
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

#### ELECTRICAL

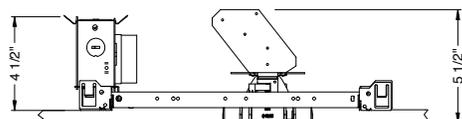
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote and Integral (ITS) emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)
- Low Voltage Luminaire option, see page 11.

#### FIXTURE HEIGHT

##### 10LM - 30LM LOW LUMENS



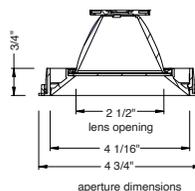
##### 35LM - 40LM HIGH LUMENS



#### TRIMMED

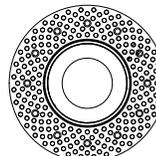


ceiling cutout  
4-1/2" diameter  
ceiling thickness  
1/8" to 1 5/8"

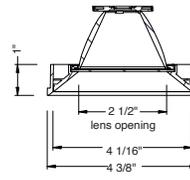


aperture dimensions

#### TRIMLESS



ceiling cutout  
4-1/2" diameter  
ceiling thickness  
3/8" to 1 3/4"

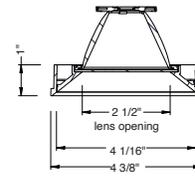


aperture dimensions

#### MILLWORK



ceiling cutout  
4-3/8" diameter  
ceiling thickness  
1/2" to 1 3/4"



aperture dimensions

# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

		ORDERING CODE	
<b>SERIES</b>	<b>NU4</b>	NU4	
<b>TYPE</b>	<b>RD</b>	round downlight	
	<b>RDT</b>	round downlight trimless	
	<b>RDTMW</b>	round downlight trimless millwork	
<b>LED</b>	<b>SW</b>	standard white	
<b>DELIVERED LUMENS</b>	<b>10LM</b>	990 lm	
	<b>15LM</b>	1485 lm	
	<b>20LM</b>	2095 lm	
	<b>25LM</b>	2540 lm	
	<b>30LM</b>	3090 lm	
	<b>35LM</b>	3580 lm	
	<b>40LM</b>	4180 lm	
Standard Configuration: 3000K 80CRI 25D, NL Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]			
<b>CCT</b>	<b>27K</b>	2700K	
	<b>30K</b>	3000K	
	<b>35K</b>	3500K	
	<b>40K</b>	4000K	
		CCT	2700K
		CRI	80+ 90+ 80+ 90+ 80+ 90+ 80+ 90+
		CCT MULTIPLIER FOR LUMEN OUTPUT	0.96 0.81 1.00 0.85 1.03 0.88 1.06 0.91
<b>CRI</b>	<b>80</b>	80 CRI	
	<b>90</b>	90 CRI	
<b>OPTIC &amp; LM MULTIPLIER</b> SEE PAGE 5, 6	<b>8D<sup>1</sup></b>	8 degrees	(1.00)
	<b>12D<sup>1</sup></b>	12 degrees	(1.00)
	<b>20D</b>	20 degrees	(0.99)
	<b>25D</b>	25 degrees	(1.00)
	<b>35D</b>	35 degrees	(0.99)
	<b>50D</b>	50 degrees	(0.99)
	<b>65D</b>	65 degrees	(0.99)
<b>BEZEL LENS</b> SEE PAGE 3	<b>NL<sup>2</sup></b>	no lens	(1.00)
	<b>CL</b>	clear lens	(0.98)
	<b>DL</b>	diffused lens	(0.91)
	<b>E<sup>3</sup></b>	elliptical beam spread	(0.92)
	<b>HCL<sup>4</sup></b>	honeycomb louver	(0.85)
	<b>HET</b>	high efficiency textured lens, similar to Solite™	(0.92)
	<b>SBL</b>	smoothing beam lens	(0.92)
	<b>WDL</b>	wide diffused lens*	(0.90)
*Wide diffusing lens achieves beams ≥ 90° see page 4			
<b>TRIM COLOR</b> SEE PAGE 3	<b>BK</b>	black	
	<b>WH</b>	white	
	<b>MC</b>	matte chrome	
	<b>BZ</b>	bronze	
	<b>WT</b>	wheat	
	<b>CC<sup>5</sup></b>	custom color, consult factory for details	
Antimicrobial finish, add <b>AM</b> to black, white or matte chrome i.e. BKAM.			
Not applicable to trimless option. Do not include in trimless ordering code.			
<b>BEZEL COLOR</b> SEE PAGE 3	<b>BK</b>	black	(0.98)
	<b>WH</b>	white	(1.00)
	<b>MC</b>	matte chrome	(0.99)
	<b>BZ</b>	bronze	(0.98)
	<b>WT</b>	wheat	(0.99)
	<b>CC<sup>5</sup></b>	custom color, consult factory for details	
Antimicrobial finish, add <b>AM</b> to black, white or matte chrome i.e. BKAM.			

		ORDERING CODE	
<b>MOUNTING OPTIONS</b> SEE PAGE 8, 9	<b>NC</b>	new construction plate	
	<b>IC<sup>6</sup></b>	insulation contact housing	
	<b>ICAT<sup>6</sup></b>	insulation contact/airtight housing	
	<b>CP<sup>6</sup></b>	chicago plenum housing	
	<b>RET</b>	retrofit, no ceiling plate	
<b>VOLTAGE</b>	<b>120</b>	120V	
	<b>UNV</b>	120V-277V	
	<b>LVL<sup>7</sup></b>	low voltage luminaire	
<b>DIMMING</b>	<b>DIM10</b>	eldoLED flicker free 0-10V dim to 1%	
	<b>DIM10Z</b>	eldoLED flicker free 0-10V dim 0.1%	
	<b>DALI</b>	eldoLED flicker free DALI-2 dim to 1%	
	<b>DALIZ</b>	eldoLED flicker free DALI-2 dim to 0.1%	
	<b>DMX-RJ45</b>	DMX control dimming to 0.1% with RJ45 connection	
	<b>DMX-WL</b>	DMX-512/RDM dim to 0% with XLR input	
	<b>DMX-XLR</b>	DMX-512/RDM dim to 0% with lead wire input	
	<b>LUT</b>	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black	
	<b>LUTP<sup>8</sup></b>	Lutron Hi-Lume Eco (fade) dim to 0.1%	
	<b>ELVI<sup>9</sup></b>	leading edge & trailing edge (Triac/ELV) dim to 1%	
	<b>NLT</b>	nLight control interface: Cat-5/RJ45, dim to off	
	<b>CAS</b>	Casambi control with flicker free 1% dimming	
	<b>AWN<sup>10</sup></b>	lutron athena wireless node	
	<b>L3DA</b>	Lutron Hi-lume 1% 3-wire/Ecosystem	
<b>ND</b>	No Driver Included. Customer to supply PoE system components or order remote driver separately. Refer to PoE/Remote Driver reference sheet for additional details.		
<b>ELECTRICAL OPTIONS</b>	<b>EM7<sup>11</sup></b>	remote emergency battery, 90 min at 7W	
	<b>EM12<sup>11</sup></b>	remote emergency battery, 90 min at 12W	
	<b>EM10CA20<sup>11</sup></b>	remote emergency battery, 90 min at 10W	

ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	Extends a pair of Bar Hangers Total Mounting Length: 29" to 48"

YOUR COMPLETED ORDERING CODE	
Follow the steps to specify your fixture, example:	
<b>NU4 - RD - SW - 20LM - 35K - 90 - 8D - NL - WH - WH - NC - UNV - DIM10 - EM7</b>	

## NOTES

- 8D available in 10LM/15LM and 12D available in 10LM/15LM/20LM. Not recommended with DL/E/WDL lenses, beam angle increases by 25% or 2.5x.
- NL option does not meet requirements for AT/DF/WET/NSF listings. Lensing cannot be added in the field.
- Elliptical lens not available with 8D/12D optic options. Actual beam distributions [20D= 35° x 60°, 25D= 40° x 65°, 35D= 45° x 70°, 55D= 55° x 80°]
- HCL not available with lens.
- Custom set up fee plus minimum quantity required per color.
- IC/ICAT/CP not available in 40LM.
- Must select ND dimming code, for remote driver or POE specifications see page 11.
- LUTP not available in 25LM/30LM/40LM.
- ELVI available in 120V.
- AWN reference page 11 for product specifications on Athena wireless node.
- For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Not available in LVL/ND voltage and dimming codes.

\* EldoLED and DMX uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## TRIM OPTIONS

### TRIM/BEZEL COLORS



## OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

### REFLECTOR OPTIC ACCESSORY

Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
8D	7.8	10.9
12D	11.3	23.5
20D	17.4	12.5
25D	22.2	13.9
35D	32.4	16.5
50D	44.9	13.4
65D	52	15.5

### NL

No Lens



OPTIC	BEAM ANGLE	UGR
8D	7.8	14.2
12D	11.9	13.8
20D	18	13.6
25D	22.8	13.1
35D	36.2	14.5
50D	49.2	18.3
65D	64.5	18.8

### CL

Clear Lens



OPTIC	BEAM ANGLE	UGR
8D	7.9	13.7
12D	12.1	13.3
20D	18	13.3
25D	22.8	12.8
35D	36.2	14.2
50D	49.2	18.1
65D	64.6	18.5

### SBL

Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
8D	10.2	12.8
12D	13.2	12.9
20D	19.3	13
25D	24.3	13.1
35D	37.2	14.8
50D	51.2	15.6
65D	62.2	18.8

### HET

High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	22.5	13.8
25D	27	14
35D	38.8	15.8
50D	49.8	16.5
65D	60.4	19.5

### DL

Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	39.4	19.5
25D	42.4	19.8
35D	50.6	20.8
50D	56.7	21.4
65D	66.7	23.3

### WDL

Wide Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	90.5	19.5
25D	93	19.8
35D	100	20.8
50D	104.5	21.4
65D	110.5	23.3

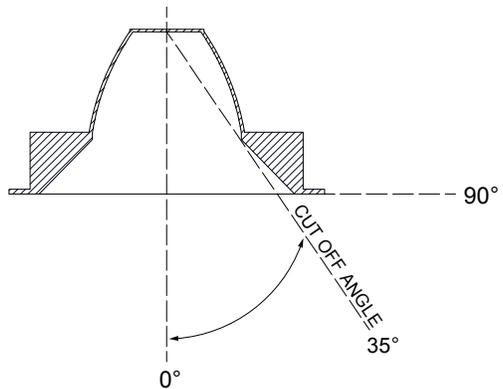
## GLARE CONTROL

### CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- Cutoff angle of CL is 35 degrees;



# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## TRIM OPTIONS

### TRIM/BEZEL COLORS



## OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

**AMBER**

OPTIC	MULTIPLIER	BEAM SPREAD
20D	0.485	18°
25D	0.484	22°
35D	0.485	35°
50D	0.48	50°
65D	0.473	60°

**AVERAGE LUMENS:** 2000LM 1880 CCT

**RED**

OPTIC	MULTIPLIER	BEAM SPREAD
20D	0.04	18°
25D	0.04	22°
35D	0.04	35°
50D	0.04	50°
65D	0.038	60°

**AVERAGE LUMENS:** 168LM

**GREEN**

OPTIC	MULTIPLIER	BEAM SPREAD
20D	0.202	18°
25D	0.202	22°
35D	0.204	35°
50D	0.2	50°
65D	0.196	60°

**AVERAGE LUMENS:** 850LM

**BLUE**

OPTIC	MULTIPLIER	BEAM SPREAD
20D	0.051	18°
25D	0.051	22°
35D	0.053	35°
50D	0.05	50°
65D	0.049	60°

**AVERAGE LUMENS:** 210LM

Add AM / BL / GR / RD to bezel lens ordering code section.  
 Example: NU4 - RD - SW - 10LM - 30K - 80 - 35D - <b>BL</b> - WH - WH - NC - UNV - DIM

# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## PHOTOMETRIC DATA

20LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

20D 18° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	1.9
8	2.5
10	3.2
12	3.8
14	4.4
Illuminance at Center (fc)	
323	
182	
116	
81	
59	
WATTS: 17.2	LPW: 121.4
LUMENS: 2088	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	11622
5	10517
15	2170
25	862
35	401
45	3

25D 23° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	2.4
8	3.2
10	4
12	4.8
14	5.6
Illuminance at Center (fc)	
244	
137	
88	
61	
45	
WATTS: 17.2	LPW: 122.1
LUMENS: 2099	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	8779
5	7589
15	2759
25	940
35	372
45	2

35D 36° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	3.9
8	5.2
10	6.5
12	7.8
14	9.1
Illuminance at Center (fc)	
128	
72	
46	
32	
23	
WATTS: 17.2	LPW: 120.6
LUMENS: 2074	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	4594
5	4283
15	2845
25	1317
35	435
45	10

40LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

20D 18° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	1.9
8	2.5
10	3.2
12	3.8
14	4.4
Illuminance at Center (fc)	
644	
362	
232	
161	
118	
WATTS: 37.3	LPW: 111.7
LUMENS: 4165	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	23188
5	20984
15	4329
25	1719
35	799
45	5

25D 23° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	2.4
8	3.2
10	4
12	4.8
14	5.6
Illuminance at Center (fc)	
487	
274	
175	
122	
89	
WATTS: 37.3	LPW: 112.3
LUMENS: 4189	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	17516
5	15142
15	5504
25	1876
35	742
45	4

35D 36° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	3.9
8	5.2
10	6.5
12	7.8
14	9.1
Illuminance at Center (fc)	
255	
143	
92	
64	
47	
WATTS: 37.3	LPW: 110.9
LUMENS: 4138	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	9166
5	8545
15	5676
25	2627
35	868
45	19

# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## PHOTOMETRIC DATA

20LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

50D 49° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	9.0
8	5.1
10	3.3
12	2.3
14	1.7
Illuminance at Center (fc)	
WATTS: 17.2	LPW: 121.2
LUMENS: 2085	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	3253
5	3231
15	2606
25	1591
35	450
45	13

65D 65° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	5.9
8	3.3
10	2.1
12	1.5
14	1.1
Illuminance at Center (fc)	
WATTS: 17.2	LPW: 120.9
LUMENS: 2080	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2103
5	2101
15	1990
25	1520
35	779
45	144

40LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

50D 49° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	180
8	102
10	65
12	45
14	33
Illuminance at Center (fc)	
WATTS: 37.3	LPW: 111.5
LUMENS: 4160	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	6491
5	6446
15	5200
25	3175
35	898
45	25

65D 65° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	117
8	66
10	42
12	29
14	21
Illuminance at Center (fc)	
WATTS: 37.3	LPW: 111.2
LUMENS: 4150	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	4195
5	4191
15	3971
25	3033
35	1555
45	288

# alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## PHOTOMETRIC DATA

10LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

8D 7.8° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	0.8
8	1.1
10	1.4
12	1.6
14	1.9
Illuminance at Center (fc)	
562	
316	
202	
140	
103	
WATTS: 12	LPW: 66
LUMENS: 792	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	20223
5	6477
15	368
25	287
35	170
45	0

12D 12° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	1.3
8	1.7
10	2.1
12	2.5
14	2.9
Illuminance at Center (fc)	
266	
150	
96	
66	
49	
WATTS: 8.7	LPW: 92.8
LUMENS: 807	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	9574
5	6065
15	532
25	299
35	155
45	0

20LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

8D 7.8° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	0.8
8	1.1
10	1.4
12	1.6
14	1.9
Illuminance at Center (fc)	
885	
498	
319	
221	
163	
WATTS: 20	LPW: 62.4
LUMENS: 1248	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	31866
5	10206
15	579
25	452
35	269
45	1

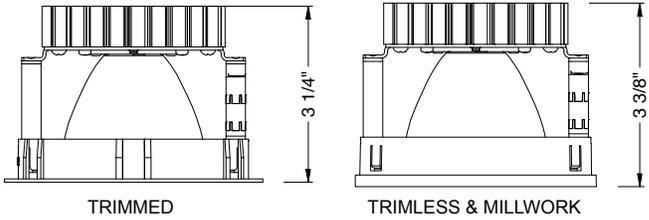
12D 12° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	1.3
8	1.7
10	2.1
12	2.5
14	2.9
Illuminance at Center (fc)	
520	
293	
187	
130	
96	
WATTS: 17	LPW: 92.9
LUMENS: 1579	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	18725
5	11861
15	1041
25	585
35	303
45	0

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

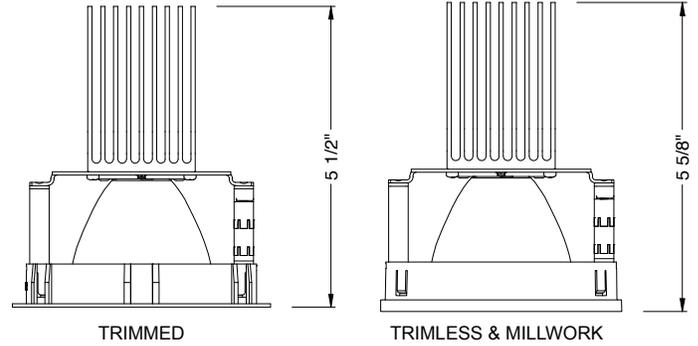
## MOUNTING OPTIONS

### FIXTURE HEIGHT

#### 10M - 30LM CONFIGURATION

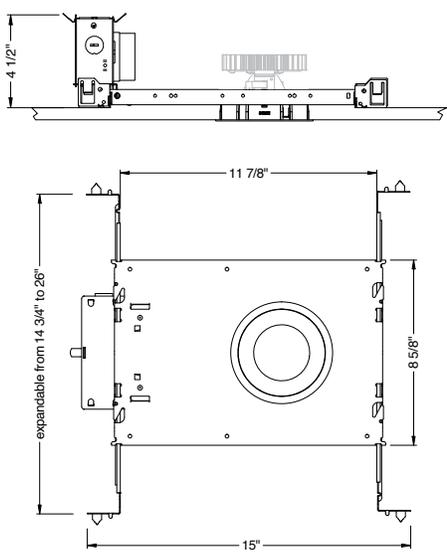


#### 35M - 40LM CONFIGURATION

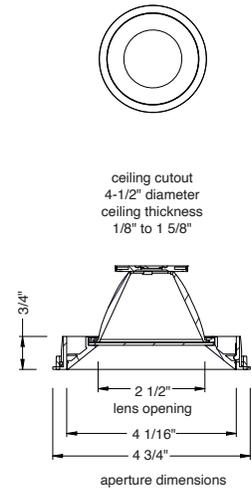


### NC - NEW CONSTRUCTION

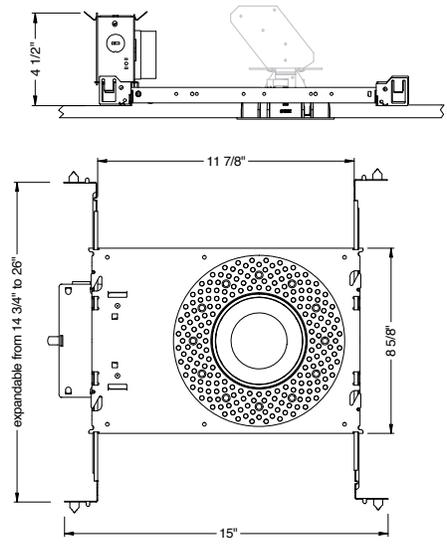
#### TRIM



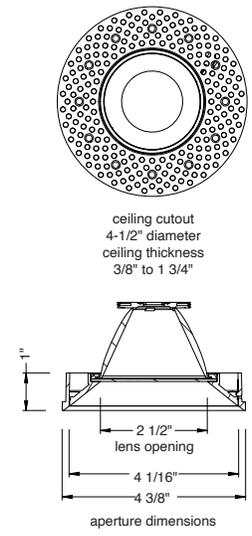
#### TRIM



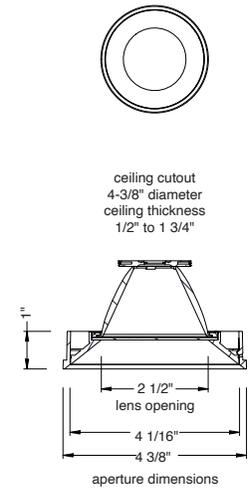
#### TRIMLESS



#### TRIMLESS



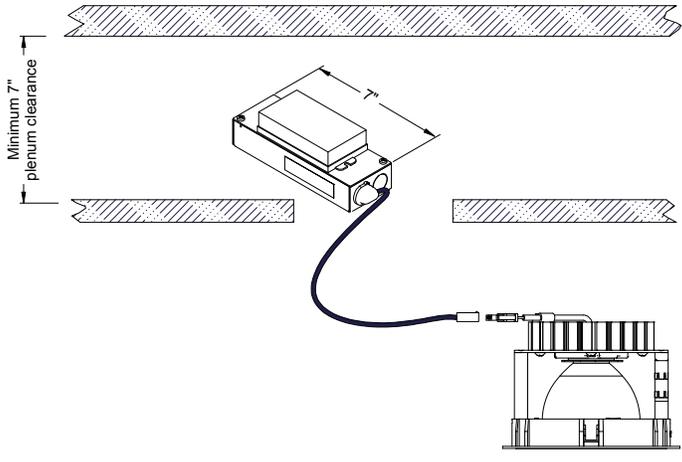
#### TRIMLESS/MILLWORK



PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## MOUNTING OPTIONS (CONTINUED)

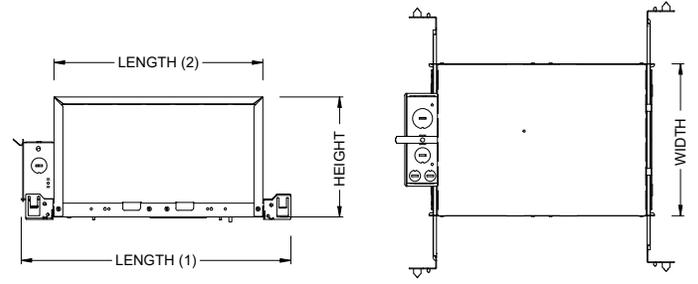
### RET - RETRO TRIM/TRIMLESS



RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✓	✓			
TYPE IC			✓	✓	✓
CHICAGO PLENUM (CCEA)					✓
SUITABLE FOR AIR HANDLING PLENUMS	✓	✓	✓	✓	✓
REDUCED AIRFLOW (WITH LENS) ASTM E283	✓	✓	✓	✓	✓

CEILING THICKNESS	
FIXTURE TYPE	MOUNTING TYPE
	STANDARD CEILING THICKNESS
TRIM	1/8" to 1-5/8"
TRIMLESS	3/8" to 1-3/4"
MILLWORK (TRIMLESS)	1/2" to 1-3/4"

### IC - INSULATION CONTACT HOUSING ICAT - INSULATION CONTACT / AIR TIGHT CP - CHICAGO PLENUM



BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"
B	18 - 1/4"	14 - 7/8"	12 - 1/8"	11 - 1/4"

BOX TYPE / LUMEN OUTPUT - NARROW BEAM (8°-12°)						
LUMEN OUTPUT	BOX - A			BOX - B		
	IC	ICAT	CP	IC	ICAT	CP
10LM	✓	✓	✓			
15LM	✓	✓	✓			
20LM				✓	✓	✓

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (20° - 65°)						
LUMEN OUTPUT	BOX - A			BOX - B		
	IC	ICAT	CP	IC	ICAT	CP
10LM	✓	✓	✓			
15LM	✓	✓	✓			
20LM	✓	✓	✓			
25LM	✓	✓	✓			
30LM	✓	✓	✓			
35LM				✓	✓	✓
40LM						

PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

## BATTERY OPTIONS

### EMERGENCY BATTERY

IOTA's ILB Battery Backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single can. The Constant Power design of the ILB maintains the output wattage to the LED array even as the system voltage diminishes. UL 924 Listed for U.S. and Canada. UL 1310 Certified, Output Class 2 Compliant. Includes single-piece TBTS test switch and charge indicator accessory kit. For use with switched and unswitched fixtures, and includes Two-wire universal AC input. Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements. Rated for use in Plenum, Damp Location, Recessed Type IC, and Enclosed and Gasketed Luminaires.

### INTEGRATED TEST SWITCH

The integrated test switch mounted onto fixture bezel.

### REMOTE TEST SWITCH

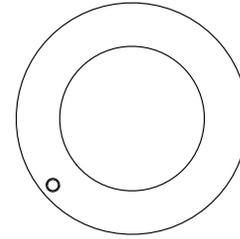
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

### EMERGENCY BATTERY ACCESS

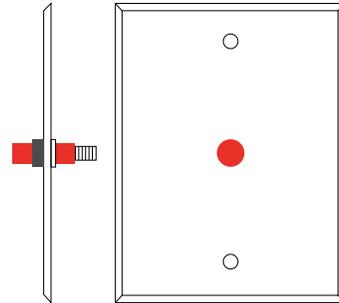
Above ceiling access is required for service. An access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery is required.

### REMOTE LOCATION

Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



Integrated Test Switch



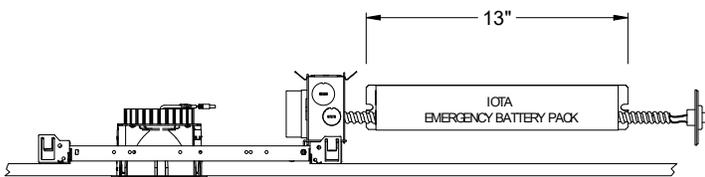
Remote Test Switch

### EM MODE OUTPUT (DELIVERED LUMENS)

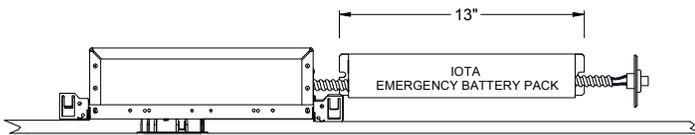
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	820LM	1200LM	1480LM

Notes: Based on 30K, 80CRI

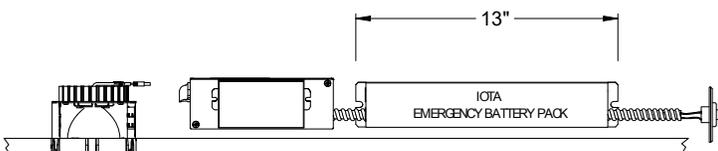
### NC - NEW CONSTRUCTION WITH EM BATTERY (REMOTE TEST SWITCH)



### IC / ICAT / CP - INSULATION CONTACT HOUSING WITH EM BATTERY (REMOTE TEST SWITCH)

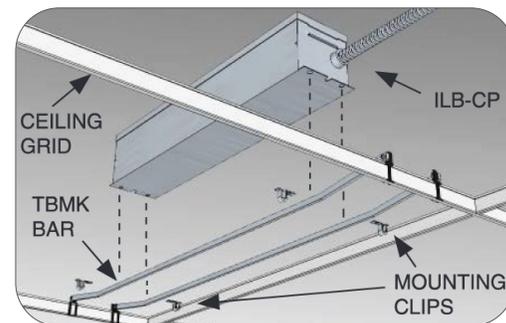


### RET - RETROFIT WITH EM BATTERY (REMOTE TEST SWITCH)



### Accessory

76066 Optional T-Grid Mounting Kit<sup>1</sup>



1. Can be used with any of the Emergency Battery Backups. Must be ordered as a separate line item.

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

## LOW VOLTAGE OPTIONS

### 20° - 65° BEAM

(Note: Specifications are subject to change without notice)

#### 14mm COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	990LM @30K/80CRI	250mA	9W
15LM	1485LM @30K/80CRI	300mA	11W
20LM	2095LM @30K/80CRI	425mA	15.5W
25LM	2540LM @30K/80CRI	525mA	19W
30LM	3090LM @30K/80CRI	650mA	23.5W
35LM	3580LM @30K/80CRI	800mA	29W
40LM	4180LM @30K/80CRI	900mA	32.5W
10LM	840LM @30K/90/CRI	250mA	9W
15LM	1260LM @30K/90/CRI	300mA	11W
20LM	1780LM @30K/90/CRI	425mA	15.5W
25LM	2160LM @30K/90/CRI	525mA	19W
30LM	2620LM @30K/90/CRI	650mA	23.5W
35LM	3040LM @30K/90/CRI	800mA	29W
40LM	3550LM @30K/90/CRI	900mA	32.5W
Notes	Delivered lumens based on 25D optic with no lens, (see page 2)		

### 12° BEAM

(Note: Specifications are subject to change without notice)

#### 10mm COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	810LM @30K/80CRI	250mA	9W
15LM	1580LM @30K/80CRI	300mA	11W
20LM	2010LM @30K/80CRI	400mA	14.5W
10LM	690LM @30K/90CRI	250mA	9W
15LM	1340LM @30K/90CRI	300mA	11W
20LM	1710LM @30K/90CRI	400mA	14.5W
Notes	Delivered lumens based on 12D optic no lens, (see page 2)		

### 8° BEAM

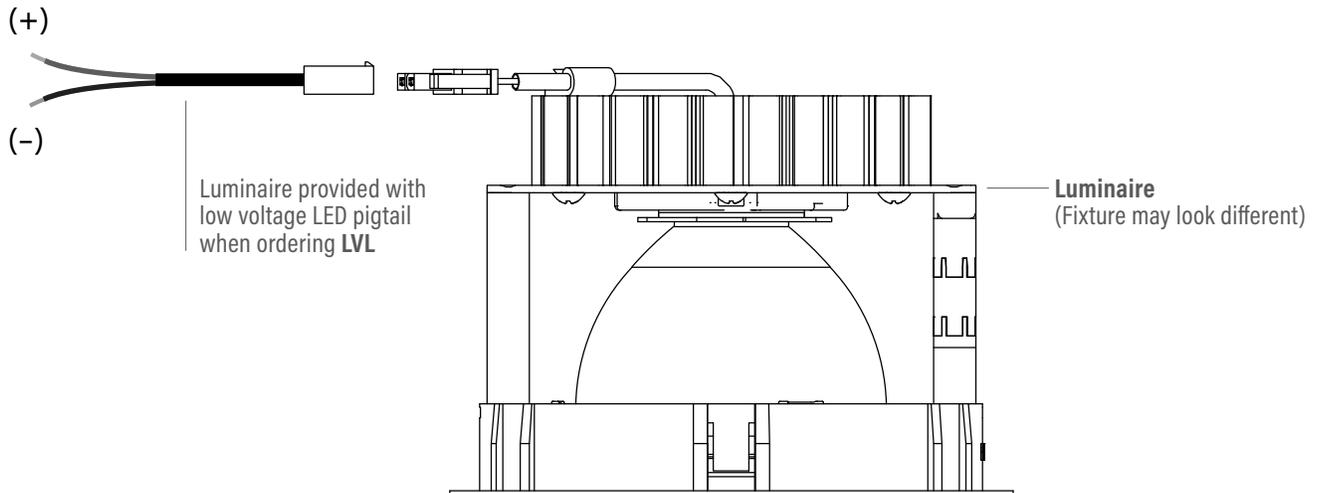
(Note: Specifications are subject to change without notice)

#### 6mm COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
10LM	790LM @30K/80CRI	225mA	8.5W
15LM	1250LM @30K/80CRI	350mA	13W
10LM	670LM @30K/90CRI	225mA	8.5W
15LM	1060LM @30K/90CRI	350mA	13W
Notes	Delivered lumens based on 8D optic no lens, (see page 2)		

## NOMINAL LED VOLTAGE: 36VDC

Customer to order CC Remote Driver separately or POE Node by others.



PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

## AWNDR OPTIONS

### Athena Wireless Node

The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.



Athena Wireless Node RF

#### AWNDR

Plenum rated and can be installed above the ceiling for wireless control of a fixture without any impact on fixture aesthetics.

#### FEATURES

- Enables individual, wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring.
- Installed at factory – no wiring required on-site. Fixture is ready to communicate wirelessly once power is connected.
- All drivers on the link are controlled as a single zone.

#### REGULATORY APPROVALS

- cULus Listed (UL916)
- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC® 2014 300.22(C)(3).
- FCC compliant with the limits for a Class B digital device.
- IC (Industry Canada)
- ANSI C137.1 0-10 V- Electronic Off

#### POWER / LOAD

- IEC SELV/NEC® Class 2
- 1 Watt

#### ENVIRONMENTAL

- Ambient operating temperature (immediate vicinity of Athena wireless node): **32 °F to 131 °F** (0 °C to 55 °C), 0% to 90% humidity.

#### BATTERY OPTIONS

- For EM options please consult factory.

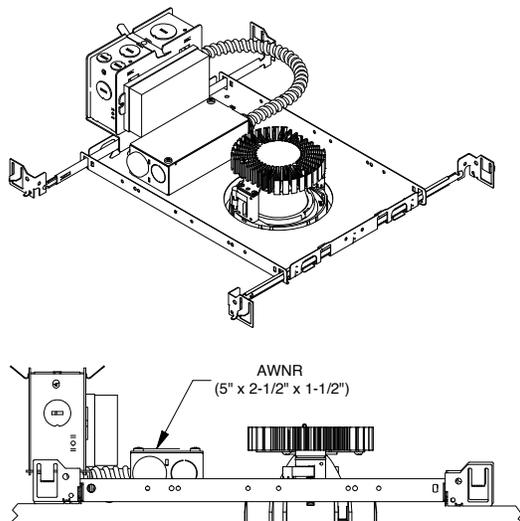
#### Note: Default behavior prior to programming

- Light level 100%
- Athena wireless node performs an unprogrammed startup sequence on every power up until the device is added to an Athena system.
- Each Athena wireless node should be installed within 25 ft (7.62 m) of two or more Athena wireless nodes or other Clear Connect – Type X devices.
- For Chicago plenum installations, the Athena wireless node may not be installed in the plenum space. It must be installed in the occupied space.

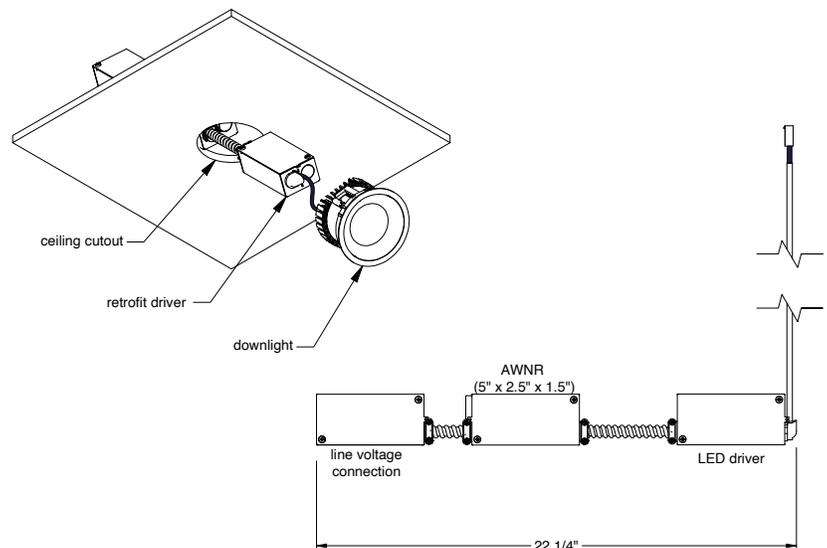
**For servicing the driver/j-box, access above ceiling is required. (NC Mounting)**

**IC/ICAT/CP not available in AWNR.**

### NC - NEW CONSTRUCTION



### RET - RETRO FIT

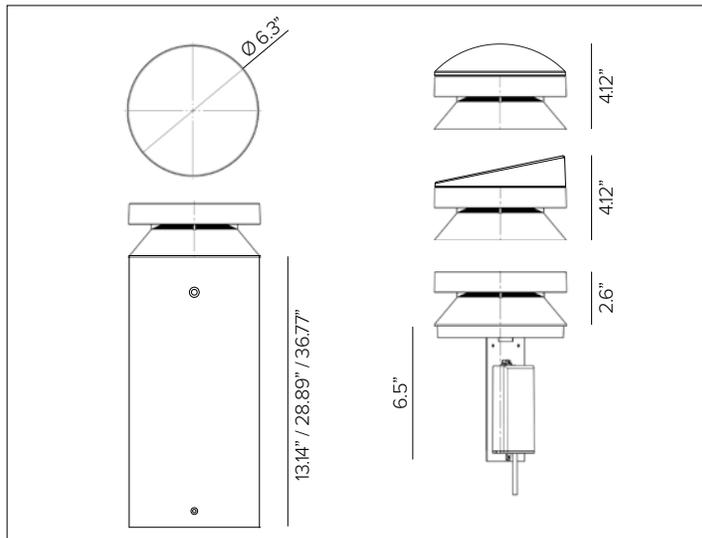


# MR. BO

## Radial Emission LED Bollard



Flat Top version shown. Angle Top version shown. Domed Top version shown.



### CONCEPT

Radial-emission LED bollard specifically designed to light large open spaces.

### FIXTURE MECHANICAL CHARACTERISTICS

<b>Housing</b>	Ø 6.3" Dia.
<b>Materials</b>	Powder coated anodized die-cast aluminum optical head with extruded body. Marine Grade cataphoresis <sup>9</sup> available as optional.
<b>Finish</b>	Textured finish.
	<ul style="list-style-type: none"> <li>● Ferrite Dark Grey</li> <li>● Black</li> <li>● White</li> <li>● Bronze</li> <li>● Sandstone Grey</li> <li>● Heritage Brown</li> </ul>
<b>Power Connection</b>	Factory shipped with IP68 quick disconnect at fixture and mating 4ft SJ00W 18-6 cable with purple and grey wires for 0-10V control.
<b>Functionality</b>	Available in three different heights - 16in, 32in and 40in nominal for flat head or 17in, 33in and 41in nominal for domed and angled heads. 316L grade stainless steel base and stainless steel anti-theft screws. Optional integral 90 minute emergency battery back at 8W output (14W 57% / 19W 42% / 27W 30%); ambient temperature not to drop below 0°C or exceed 50°C. Battery meets CEC Title 20 efficiency standards. Optional integral smart PIR motion sensor factory preset to 100% ON fade to 25% output after 30 minutes if no motion is detected, contact factory for custom settings.
<b>BUG</b>	B1-U0-G1 Dark Sky Compliant
<b>Weight</b>	16" – 6.5lbs / 32" – 10lbs / 40" – 13lbs 17" – 7.5lbs / 33" – 11lbs / 41" – 14lbs <i>(Includes fixture head assembly and post only)</i>
<b>Protection</b>	IP66
<b>Resistance</b>	IK10

### CERTIFICATIONS

cULus Wet Location Listed E488257.  
Tested in accordance with LM-79-08.  
Compliant for California installations.  
IEC 62471  
RoHS3 EU 215/863

### WARRANTY

5 year limited warranty.

### ELECTRICAL CHARACTERISTICS

<b>Driver</b>	Integral 4/1 smart driver (Non-Dimmable / 0-10V / Reverse Phase / Forward Phase).
<b>Wattage</b>	27W (360°) / 19W (180°, 90°+90°) / 14W (90°)
<b>Voltage</b>	Universal Voltage 120-277V AC 50/60Hz
<b>Ambient Temp.</b>	-25°C / +35°C (95°F)

### SOURCE

LED Chip on Board.

TM30	CCT (Nominal)	CRI	Rf	Rg	SDCM
■	2700K	80	82	96	2
■	3000K	80	83	96	2
■	3500K	80	82	95	2
■	4000K	80	82	95	2

*Ra90 available upon request*

### OPTIC

Internal high reflective anodized aluminum reflector with transparent polycarbonate lens positioned horizontally under optical head with external black anti-glare control.

Beam	360°	180°	90°	90°+90°
<b>Delivered Lumens</b>	<b>2700K</b> 1,167Lm	873Lm	292Lm	598Lm
	<b>3000K</b> 1,217Lm	910Lm	305Lm	623Lm
	<b>4000K</b> 1,248Lm	933Lm	313Lm	639Lm

*For 3500K lumen values use multiplier of 1.02 from 3000K.*

**Efficacy** 52Lm/W max. Refer to photometric graphs for specific values.

**Lifetime** L92/B10 30000hrs at max TA +25°C  
L90/B10 50000hrs at max TA +25°C

**Photobiological Classification** Low risk safety RG1

### SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

# MR. BO

## SPECIFICATION INFORMATION



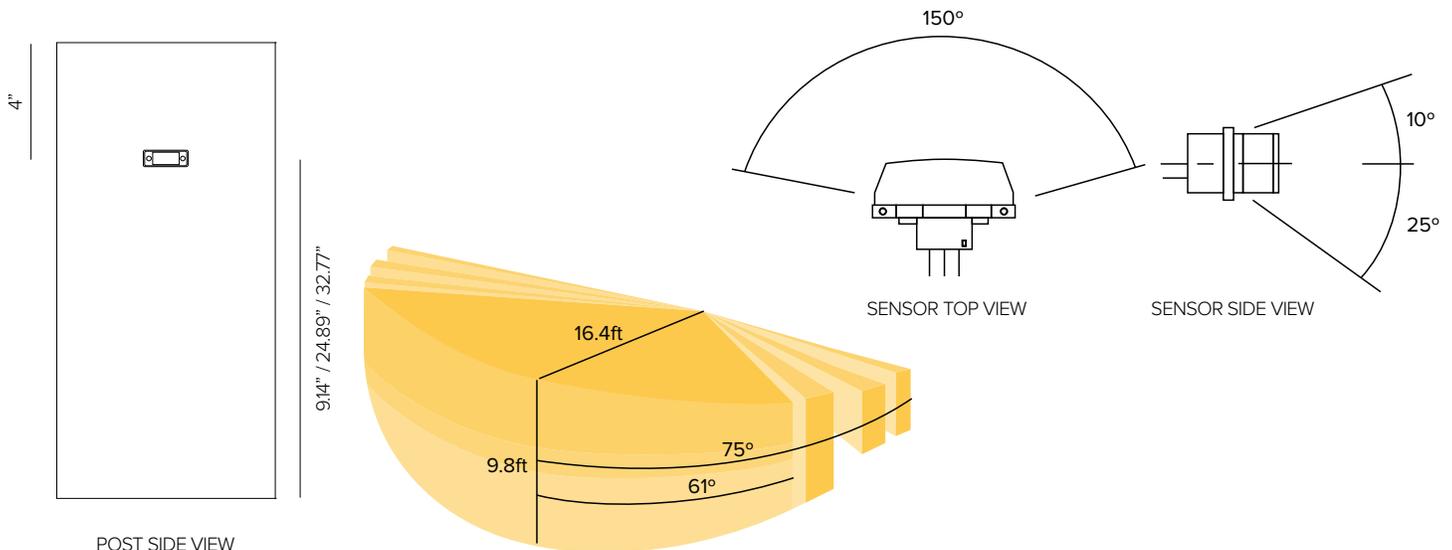
Ex: MBBA411736L330FE / 1US3448 / 1US2530

1 - PRODUCT CODE	2 - TOP	3 - DRIVER	4 - HEIGHT	5 - EMISSION	6 - WATTAGE	6 - KELVIN	7 - FINISH
MBB — MR. BO Bollard	— — Flat	41 — 4/1 Smart Dimming (Non-Dimming / 0-10V / Reverse Phase / Forward Phase)	16 — 16in	36 <sup>D</sup> — 360°	L3 — 27W	27 — 2700K	FE — Ferrite Dark Grey HB — Heritage Brown BZ — Bronze WT — White BT — Black SG — Sandstone Grey RAL — <a href="#">Custom RAL</a>
			32 — 32in	18 <sup>C</sup> — 180°	L2 — 19W	30 — 3000K	
			40 — 40in	99 <sup>C</sup> — 90°+90°	L1 — 14W	35 — 3500K	
	A — Angled	41 — 4/1 Smart Dimming (Non-Dimming / 0-10V / Reverse Phase / Forward Phase)	17 — 17in	36 <sup>D</sup> — 360°	L3 — 27W	40 — 4000K	
			33 — 33in	18 <sup>C</sup> — 180°	L2 — 19W		
			41 — 41in	99 <sup>C</sup> — 90°+90°	L1 — 14W		
D — Domed							

8 - OPTIONAL	9 - MOUNTING	10 - INSTALLATION
— — Blank no option	<a href="#">Ground Anchor Base</a> See section for details	<a href="#">J-Box with sleeve</a> See section for details
EM <sup>E,F</sup> — Emergency Battery Pack	<a href="#">Plate for Surface Installation</a> See section for details	
MS <sup>E</sup> — Motion Sensor		
MG <sup>G</sup> — Marine Grade		

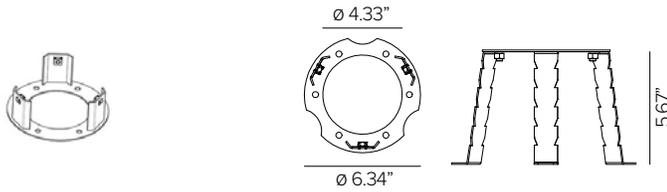
<sup>D</sup> 90° optic only available in 14W nominal.  
<sup>C</sup> 90°+90° and 180° optics only available in 19W nominal.  
<sup>D</sup> 360° optic only available in 27W nominal.  
<sup>E</sup> 0-10V dimming control only available with EM and MS options.  
<sup>F</sup> Not compatible with 16in or 17in height versions.  
<sup>G</sup> Marine Grade is recommended for use in environments with occasional exposure to salt air, reclaimed water, fertilizers, chemical cleaners, or frequent pressure washing (steam) cleaning. Fixture housing complete with marine grade cataphoresis suitable for use in marine grade environments. Not to be in direct contact with salt or corrosive agents for extended periods of time.

## MOTION SENSOR DETAILS



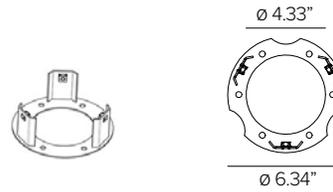
MR. BO

9 – MOUNTING (REQUIRED)



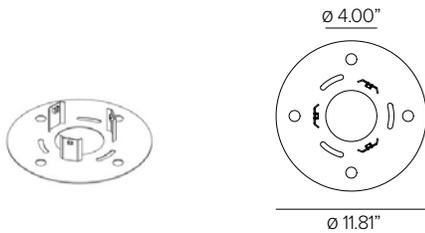
Trimless mounting base with ground anchor fixing rods for installation in concrete. AISI 316 stainless steel. Mounting bolts included.  
**Required for use with 1US2530 by NEC.**

Part No. **1US3448**



Trimless mounting plate for surface installation inside the fixture post. AISI 316 stainless steel compatible with dowels to be inserted into 6 holes, Ø 0.33" Dia. for use with 5/16" bolts maximum. Anchor bolts not included.  
**Required for use with 1US2530 by NEC.**

Part No. **1US3449**



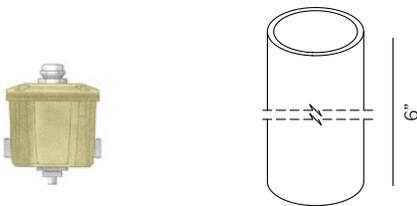
Powder coated mounting plate for surface installation outside the post. AISI 316 stainless steel compatible with dowels to be inserted into 4 holes, Ø 0.33" Dia. for use with 5/16" bolts maximum. Anchor bolts not included.  
**Required for use with 1US2530 by NEC.**

Part No. **1US3510 (\*)**

- Ferrite Dark Grey (Default)
- Heritage Brown (HB)\*
- Bronze (BZ)\*
- White (WT)\*
- Black (BT)\*
- Sandstone Grey (SG)\*

\*Add suffix to end of number to identify finish (EX. 1US3510HB)

10 – INSTALLATION (REQUIRED)



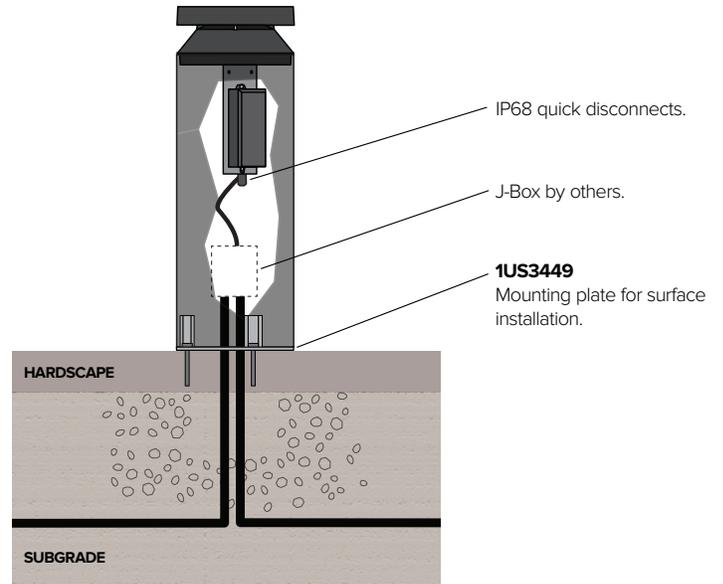
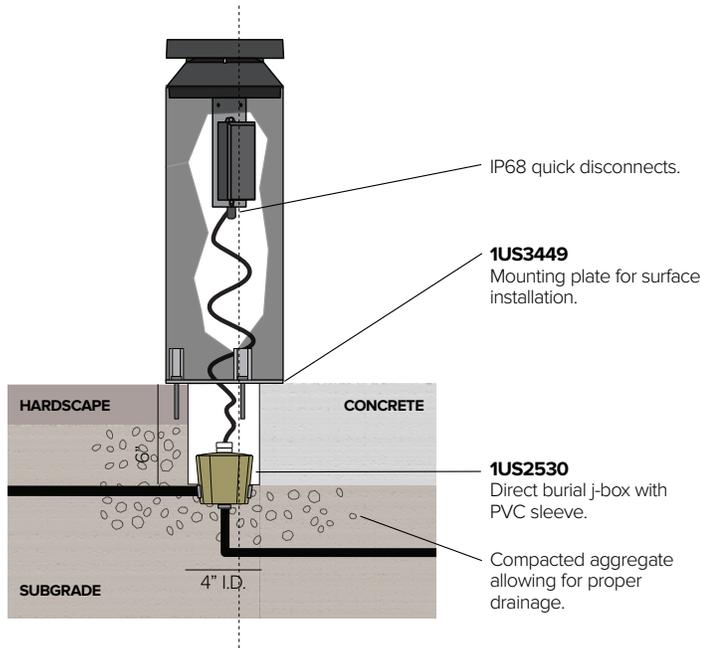
Direct burial brass ingrade j-box with PVC sleeve. Features stainless steel cover screws and strain relief for power cord, (2) 3/4" NPT bottom holes and (2) 3/4" NPT side holes. Includes (4) 3/4" to 1/2" adapters and (2) 1/2" NPT plugs.  
**(REQUIRED by NEC)**

Part No. **1US2530**

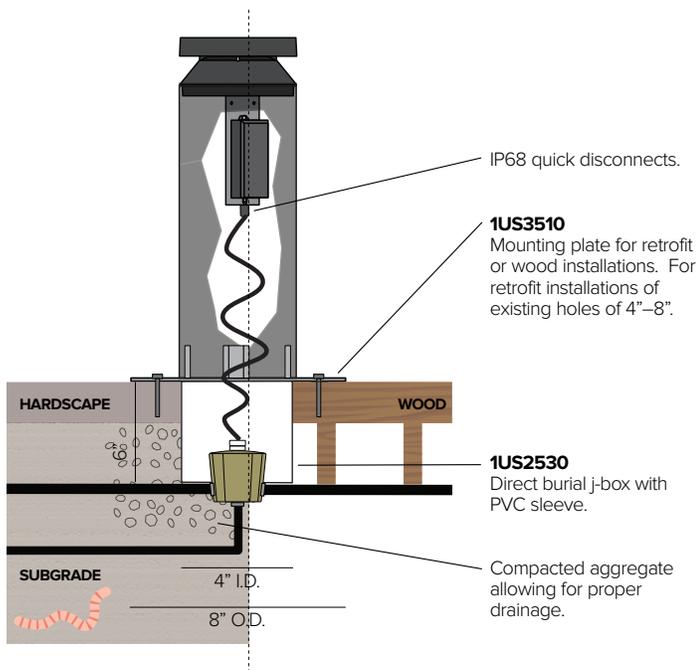
MR. BO

INSTALLATION DIAGRAM

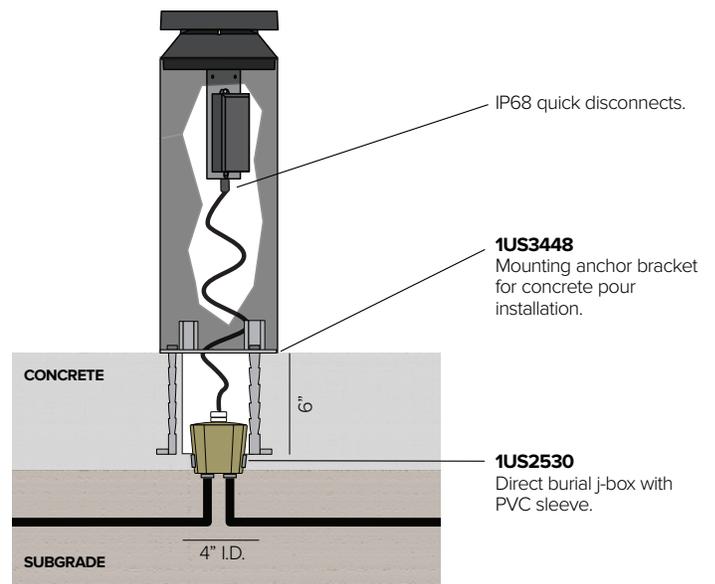
1US3449 – SURFACE INSTALLATION



1US3510 – RETROFIT / WOOD DECK INSTALLATION



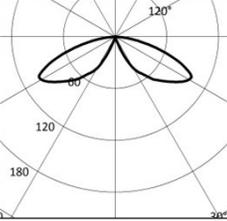
1US3448 – CONCRETE POUR INSTALLATION

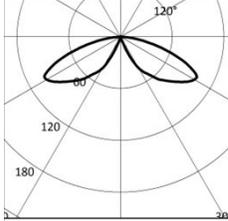


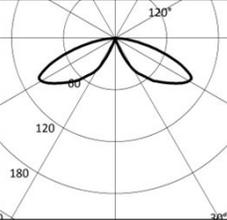
MR. BO

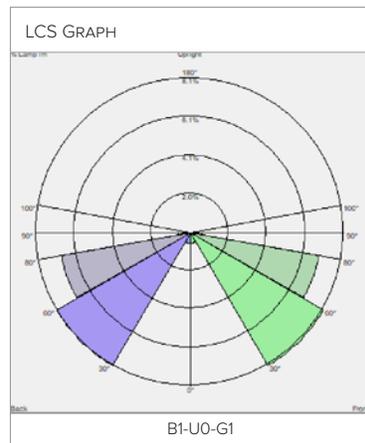
PHOTOMETRY

360° EMISSION

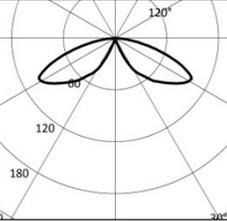
	2700K	H(m)	D(m)	Emax(lx)		
	Ra84		41°			
	Fixture Power	26W	1	2.98	101	
	Source Flux	3570lm	2	5.95	25	
	Fixture Flux	1167lm	3	8.93	11	
	Efficacy	45lm/W	4	11.91	6	
TS1118	I <sub>max</sub> =100cd/klm	I <sub>max</sub>	357cd	5	14.88	4

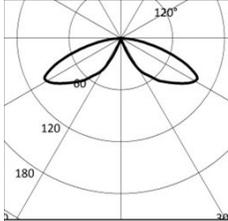
	3000K	H(m)	D(m)	Emax(lx)		
	Ra84		41°			
	Fixture Power	26W	1	2.98	106	
	Source Flux	3723lm	2	5.95	26	
	Fixture Flux	1217lm	3	8.93	12	
	Efficacy	47lm/W	4	11.91	7	
TS1118	I <sub>max</sub> =100cd/klm	I <sub>max</sub>	372cd	5	14.88	4

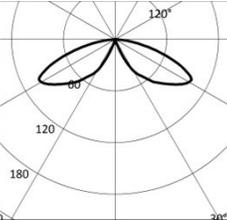
	4000K	H(m)	D(m)	Emax(lx)		
	Ra84		41°			
	Fixture Power	26W	1	2.98	108	
	Source Flux	3817lm	2	5.95	27	
	Fixture Flux	1248lm	3	8.93	12	
	Efficacy	48lm/W	4	11.91	7	
TS1118	I <sub>max</sub> =100cd/klm	I <sub>max</sub>	381cd	5	14.88	4

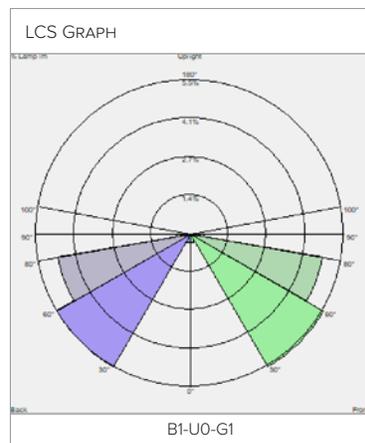


180° EMISSION

	2700K	H(m)	D(m)	Emax(lx)		
	Ra84		41°			
	Fixture Power	18W	1	2.98	76	
	Source Flux	2669lm	2	5.95	19	
	Fixture Flux	873lm	3	8.93	8	
	Efficacy	48lm/W	4	11.91	5	
TS1118	I <sub>max</sub> =100cd/klm	I <sub>max</sub>	267cd	5	14.88	3

	3000K	H(m)	D(m)	Emax(lx)		
	Ra84		41°			
	Fixture Power	18W	1	2.98	79	
	Source Flux	2783lm	2	5.95	20	
	Fixture Flux	910lm	3	8.93	9	
	Efficacy	50lm/W	4	11.91	5	
TS1118	I <sub>max</sub> =100cd/klm	I <sub>max</sub>	278cd	5	14.88	3

	4000K	H(m)	D(m)	Emax(lx)		
	Ra84		41°			
	Fixture Power	18W	1	2.98	81	
	Source Flux	2853lm	2	5.95	20	
	Fixture Flux	933lm	3	8.93	9	
	Efficacy	51lm/W	4	11.91	5	
TS1118	I <sub>max</sub> =100cd/klm	I <sub>max</sub>	285cd	5	14.88	3



MR. BO

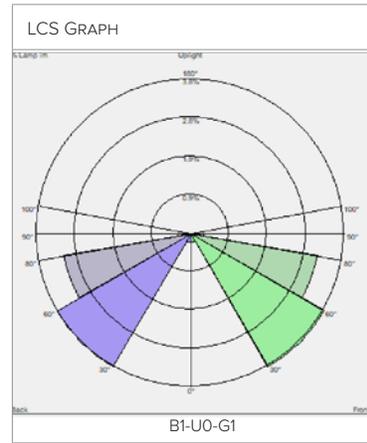
PHOTOMETRY

90° EMISSION

	2700K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra80		40°	76°			
	Fixture Power	14W	1	3.12	3.35	88	
	Source Flux	1950lm	2	6.23	6.71	22	
	Fixture Flux	296lm	3	9.35	10.06	10	
	Efficacy	22lm/W	4	12.46	13.42	6	
TS1120	I <sub>max</sub> =166cd/klm	I <sub>max</sub>	323cd	5	15.58	16.77	4

	3000K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra80		40°	76°			
	Fixture Power	14W	1	3.12	3.35	92	
	Source Flux	2034lm	2	6.23	6.71	23	
	Fixture Flux	309lm	3	9.35	10.06	10	
	Efficacy	23lm/W	4	12.46	13.42	6	
TS1120	I <sub>max</sub> =166cd/klm	I <sub>max</sub>	337cd	5	15.58	16.77	4

	4000K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra80		40°	76°			
	Fixture Power	14W	1	3.12	3.35	95	
	Source Flux	2085lm	2	6.23	6.71	24	
	Fixture Flux	317lm	3	9.35	10.06	11	
	Efficacy	23lm/W	4	12.46	13.42	6	
TS1120	I <sub>max</sub> =166cd/klm	I <sub>max</sub>	346cd	5	15.58	16.77	4



90° + 90° EMISSION

	2700K				
	Ra84				
	Fixture Power	18W			
	Source Flux	2669lm			
	Fixture Flux	598lm			
	Efficacy	33lm/W			
TS1121	I <sub>max</sub> =122cd/klm	I <sub>max</sub>	324cd		

	3000K				
	Ra84				
	Fixture Power	18W			
	Source Flux	2783lm			
	Fixture Flux	623lm			
	Efficacy	34lm/W			
TS1121	I <sub>max</sub> =122cd/klm	I <sub>max</sub>	338cd		

	4000K				
	Ra84				
	Fixture Power	18W			
	Source Flux	2853lm			
	Fixture Flux	639lm			
	Efficacy	35lm/W			
TS1121	I <sub>max</sub> =122cd/klm	I <sub>max</sub>	347cd		

