

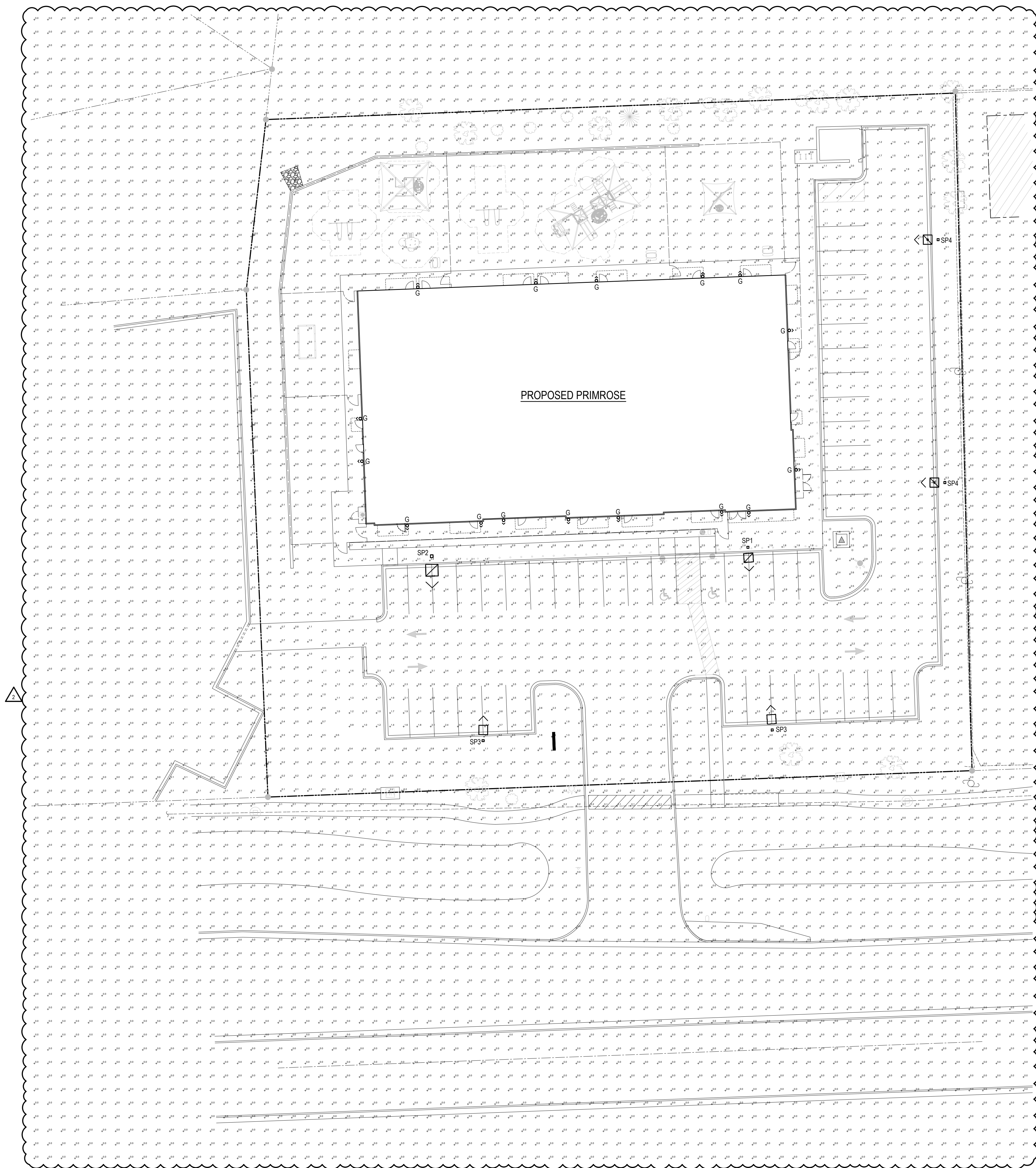
Once the plan is approved, the exterior lighting on the property shall conform to the plan.

EXTERIOR LIGHTING LAYOUT HAS BEEN DESIGNED TO MEET LOCAL ENERGY REQUIREMENTS, NATIONAL IES LIGHTING STANDARDS AND ALL REQUIREMENTS OF THE NAPERVILLE, ILLINOIS CODE OF ORDINANCES TITLE 6 ZONING REGULATIONS CHAPTER 14.

EXTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	LAMP	WATTS	DESCRIPTION	CATALOG NO.
SP1	LED	102	LED POLE MOUNTED FIXTURE WITH TYPE III MEDIUM DISTRIBUTION & DARK BRONZE FINISH. MOUNTED ON A 17'-6" TALL SQUARE STRAIGHT STEEL POLE.	LITHONIA# DSX1-LED-P3-50K-T3M-MVOLT-SPA-DBBXD POLE - LITHONIA# SSS-17-6-5G-DM19AS-DBBXD
SP2	LED	102	LED POLE MOUNTED FIXTURE WITH TYPE IV MEDIUM DISTRIBUTION & DARK BRONZE FINISH. MOUNTED ON A 17'-6" TALL SQUARE STRAIGHT STEEL POLE.	LITHONIA# DSX1-LED-P3-50K-T4M-MVOLT-SPA-DBBXD POLE - LITHONIA# SSS-17-6-5G-DM19AS-DBBXD
SP3	LED	102	LED POLE MOUNTED FIXTURE WITH TYPE V MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD & DARK BRONZE FINISH. MOUNTED ON A 17'-6" TALL SQUARE STRAIGHT STEEL POLE.	LITHONIA# DSX1-LED-P3-50K-T5M-MVOLT-HS-SPA-DBBXD POLE - LITHONIA# SSS-17-6-5G-DM19AS-DBBXD
SP4	LED	102	LED POLE MOUNTED FIXTURE WITH TYPE III EXTREME BACKLIGHT CONTROL DISTRIBUTION & DARK BRONZE FINISH. MOUNTED ON A 17'-6" TALL SQUARE STRAIGHT STEEL POLE.	LITHONIA# DSX1-LED-P3-50K-BLG3-MVOLT-SPA-DBBXD POLE - LITHONIA# SSS-17-6-5G-DM19AS-DBBXD
G	LED 3000K	12	EXTERIOR WALL MOUNTED 12" DIAMETER WAREHOUSE FIXTURE.	HI-LITE# H-15312-B-119/14/LED/30/WBCM-M

STATISTICS (VALUES ARE MAINTAINED, FIXTURES MODELED WITH LLF OF 0.75)					
Description	Avg	Max	Min	Max/Min	Avg/Min
PARKING FIELD	2.2 fc	4.0 fc	0.2 fc	20.0:1	11.0:1
PROPERTY LINE	0.0 fc	0.4 fc	0.0 fc	N/A	N/A



PHOTOMETRIC SITE PLAN
SCALE 1" = 20'-0"

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REVISIONS

#	DATE	TYPE	DESCRIPTION
1	11/08/2024	ZONING RESUBMITTAL	
2	12/16/2024	ZONING RESUBMITTAL	
3			
4			
5			
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7			
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9			
10			

PHOTOMETRIC SITE PLAN

DATE 11/26/2024

JOB NO. 23529

PH1.0
SHEET NO.



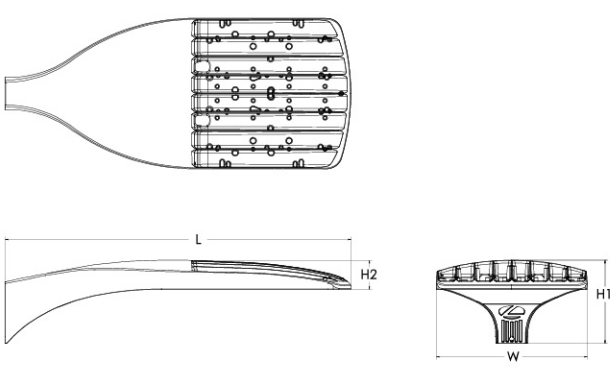
D-Series Size 1 LED Area Luminaire

Color Number **FIXTURE SP1**



For full details, please visit the page 10 of this brochure.

Specifications
EPA: 0.69 ft² (0.06 m²)
Length: 32.71" (81.1 cm)
Width: 14.26" (36.2 cm)
Height H1: 7.88" (201 mm)
Height H2: 2.73" (69.3 mm)
Weight: 34 lbs (15.4 kg)



Introduction
The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in a spacing with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBX0

Series	LEDs	Color temperature*	Color Rendering Index*	Distribution	Voltage	Mounting
DSX1 LED	Forward optics (this section 70CRI only)	40K 3000K 70CRI	80CRI	AIR Automotive front row	MVOLT (120V-277V)†	Shipped included
P1	P6	50K 5000K	70CRI	T15 Type I front	WVOLT (241V-480V)†	SPR Square pole mounting (#8 drilling)
P2	P7	40K 4000K	70CRI	T2M Type II medium	XVOLT (277V-480V)†	RRA Round pole mounting (#8 drilling)
P3	P8	50K 5000K	70CRI	T3M Type III medium		SPAS Square pole mounting (#8 drilling)
P4	P9	(this section 80CRI only, extended lead times apply)	80CRI	T3LG Type III low glare†		RRAS Round pole mounting (#8 drilling)
P5	P10	(this section 80CRI only, extended lead times apply)	80CRI	T4M Type IV medium		SPARN Square narrow pole mounting (#8 drilling)
P6	P11	30K 3000K	80CRI	T4LC Type IV low glare†		WBA Mast arm adapter (mounts on 2.38" OD horizontal tenon)
P7	P12	35K 3500K	80CRI	T4TM Forward throw medium		MA Mast arm adapter (mounts on 2.38" OD horizontal tenon)
P8	P13	40K 4000K	80CRI			
P9	P14	50K 5000K	80CRI			

Control options	Other options	Finish/cover
Shipped installed NLTAR2 PIRHN PIR PER PERS	PER† Seven-pin receptacle only (controls ordered separately) ²¹ FAO Field adjustable output ²² BL50 Bi-level switched dimming, 50% ²³ DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ²⁴ DS Dual switching ²⁵	Shipped installed SP200VKY 200V surge protection HS Homeseek shield (black finish standard) ²⁶ L50 Left recessed optics ²⁷ R90 Right recessed optics ²⁸ CCE Coastal Construction ²⁹ HA 50°C ambient operation ³⁰ BAA Buy America(s) Act Compliant SF DF Double face (DA, 240, 480V) ³¹ Shipped separately EGSR External Glare Shield (reversible, field install required, matches housing finish) BSPS Best Spikes (field install required)

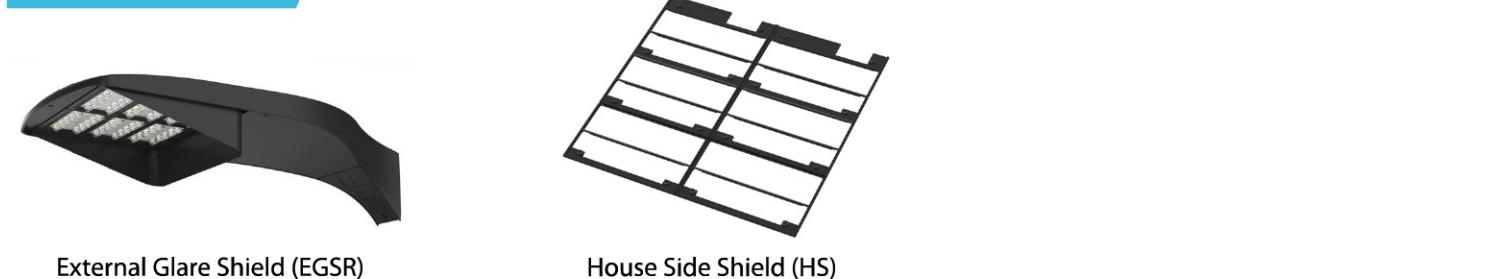
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Ordering Information

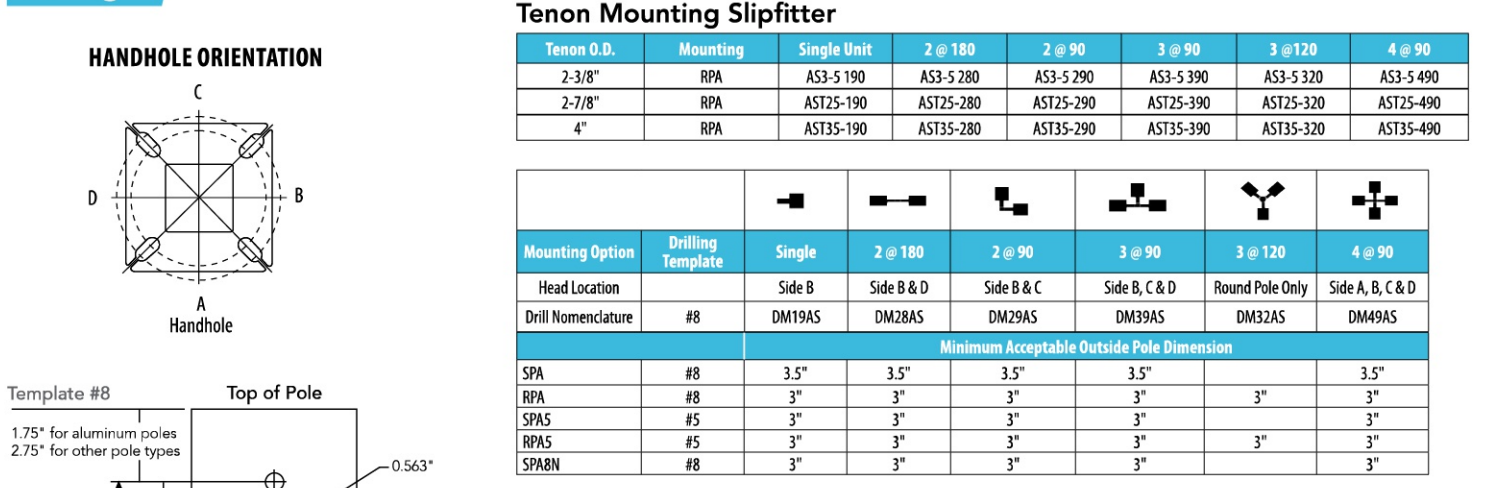
EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBX0

Series	LEDs	Color temperature*	Color Rendering Index*	Distribution	Voltage	Mounting
DSX1 LED	Forward optics (this section 70CRI only)	40K 3000K 70CRI	80CRI	AIR Automotive front row	MVOLT (120V-277V)†	Shipped included
P1	P6	50K 5000K	70CRI	T15 Type I front	WVOLT (241V-480V)†	SPR Square pole mounting (#8 drilling)
P2	P7	40K 4000K	70CRI	T2M Type II medium	XVOLT (277V-480V)†	RRA Round pole mounting (#8 drilling)
P3	P8	50K 5000K	70CRI	T3M Type III medium		SPAS Square pole mounting (#8 drilling)
P4	P9	(this section 80CRI only, extended lead times apply)	80CRI	T3LG Type III low glare†		RRAS Round pole mounting (#8 drilling)
P5	P10	(this section 80CRI only, extended lead times apply)	80CRI	T4M Type IV medium		SPARN Square narrow pole mounting (#8 drilling)
P6	P11	30K 3000K	80CRI	T4LC Type IV low glare†		WBA Mast arm adapter (mounts on 2.38" OD horizontal tenon)
P7	P12	35K 3500K	80CRI	T4TM Forward throw medium		MA Mast arm adapter (mounts on 2.38" OD horizontal tenon)
P8	P13	40K 4000K	80CRI			
P9	P14	50K 5000K	80CRI			

Shield Accessories



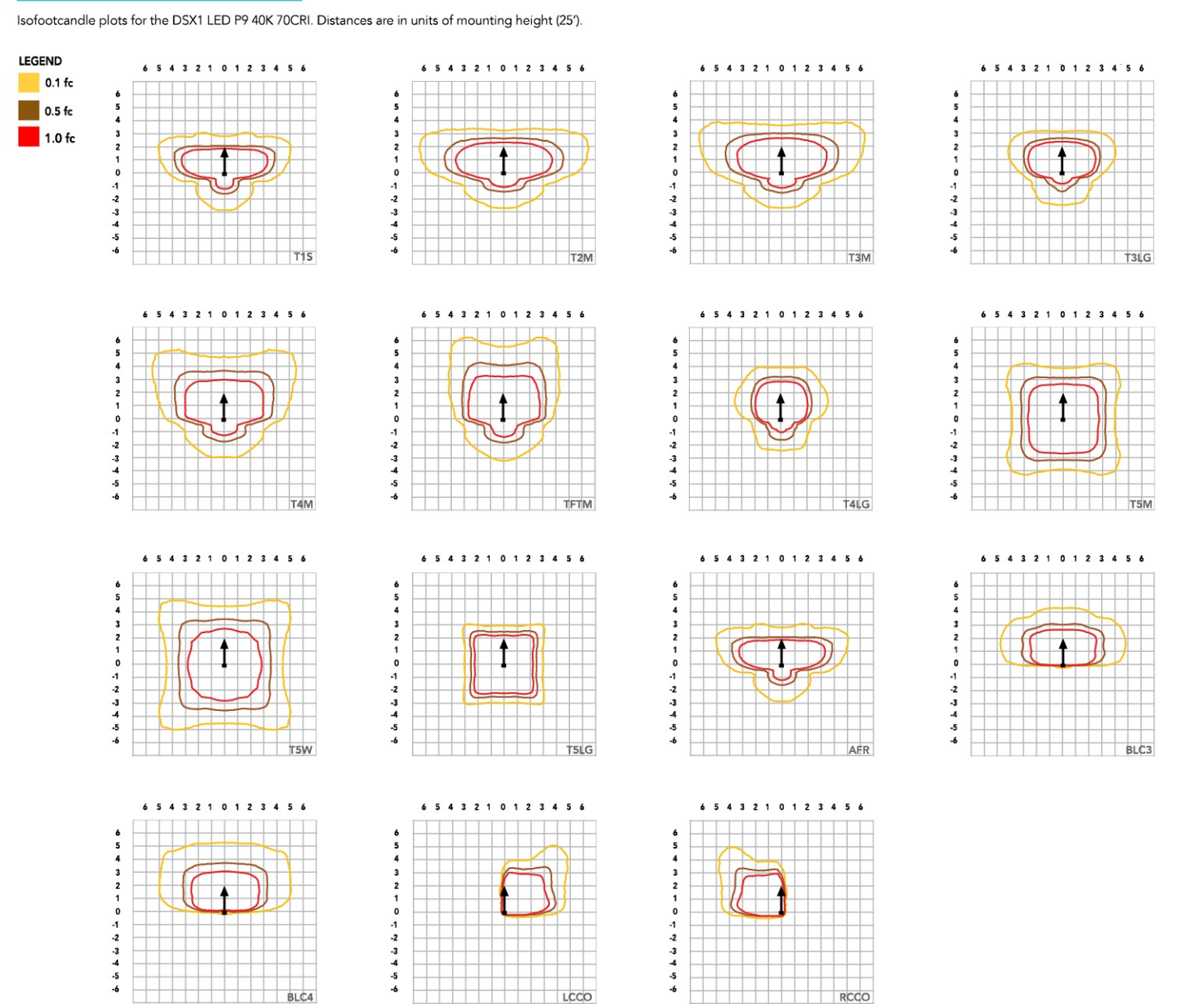
Drilling



Feature Quantity & Mounting	Single Mount	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPAS, SPARN	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RRA, RRAS	0.70	1.40	1.30	1.66	1.68	1.68
DSX1 with MA	0.80	1.66	1.50	2.09	2.09	2.09

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Photometric Diagrams



Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head location	Sub B	Sub B & C	Sub B & C	Sub B, C & D	Round Pole Only	Sub A, B, C & D	
Dist. from structure	#8	DM28AS	DM28AS	DM28AS	DM28AS	DM28AS	DM28AS

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Performance Data

Ambient	Temp	Lumen Multiplier
20°C	1.00	1.04
25°C	0.97	1.04
30°C	0.94	1.03
35°C	0.91	1.02
40°C	0.88	1.01
45°C	0.85	1.00
50°C	0.82	0.99
55°C	0.79	0.98
60°C	0.76	0.97

Projected LED Lumen Maintenance

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	85%	85%
6	68%	68%
5	48%	48%
4	24%	24%
3	41%	49%
2	20%	36%
1	13%	23%

Motion Sensor Default Settings

Option	Occupied Dimmed Level	High Level (when occupied)
PIR	30%	100%
NLTAR2 PIRHN	30%	100%

Controls Options

Accessories	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire, used to dim the luminaire.	Allows the luminaire to be manually dimmed, effectively turning the light output.	FAO device	Cannot be used with other control options that need the 0-10V leads.
DS (not available on DS0)	Seven-wire remote control for 50/50 luminaire operation.	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired wires	Requires two separate switched circuits. Consider light output adjustment.
PIR or PIR†	Non-adjacent photocell receptor.	Compatible with standard two-wire photocell for dusk/dawn operation, or advanced control nodes that provide 0-10V dimming signal.	Two-wire photocell(s) such as BL150 or advanced control nodes such as RW4M.	PIR & DS: 0-10V dimming leads on driver. PIR & DS: 2-wire advanced control nodes that need the 0-10V leads.
PIR	Motion sensor with integral photocell, sensor suitable for 8' to 40' mounting height.	Luminaires dim when occupancy is detected.	Acuity Controls iOSG	Cannot be used with other control options that need the 0-10V leads.
NLTAR2 PIRHN	Eight-wire motion sensor for motion sensing response. Shaded dimming with motion sensor eye side when wireless connected to the light fixture.	Motion and ambient light sensing with group response. Shaded dimming with motion sensor eye side when wireless connected to the light fixture.	Light Air v56K	Light Air sensors can be programmed and commissioned from the ground using the iCityPro app. Cannot be used with other control options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.	Bi-level device provides input to 10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control via secondary circuit.	BiC LVOLT1	BiC device powered off the 0-10V dimming leads, thus can be used with any input regulator from 120V-480V.

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Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBX0

Series	LEDs	Color temperature*	Color Rendering Index*	Distribution	Voltage	Mounting
DSX1 LED	Forward optics (this section 70CRI only)	40K 3000K 70CRI	80CRI	AIR Automotive front row	MVOLT (120V-277V)†	Shipped included
P1	P6	50K 5000K	70CRI	T15 Type I front	WVOLT (241V-480V)†	SPR Square pole mounting (#8 drilling)
P2	P7	40K 4000K	70CRI	T2M Type II medium	XVOLT (277V-480V)†	RRA Round pole mounting (#8 drilling)
P3	P8	50K 5000K	70CRI	T3M Type III medium		SPAS Square pole mounting (#8 drilling)
P4	P9	(this section 80CRI only, extended lead times apply)	80CRI	T3LG Type III low glare†		RRAS Round pole mounting (#8 drilling)
P5	P10	(this section 80CRI only, extended lead times apply)	80CRI	T4M Type IV medium		SPARN Square narrow pole mounting (#8 drilling)
P6	P11	30K 3000K	80CRI	T4LC Type IV low glare†		WBA Mast arm adapter (mounts on 2.38" OD horizontal tenon)
P7	P12	35K 3500K	80CRI	T4TM Forward throw medium		MA Mast arm adapter (mounts on 2.38" OD horizontal tenon)
P8	P13	40K 4000K	80CRI			
P9	P14	50K 5000K	80CRI			

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Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBX0

Series	LEDs	Color temperature*	Color Rendering Index*	Distribution	Voltage	Mounting
DSX1 LED	Forward optics (this section 70CRI only)	40K 3000K 70CRI	80CRI	AIR Automotive front row	MVOLT (120V-277V)†	Shipped included
P1	P6	50K 5000K	70CRI	T15 Type I front	WVOLT (241V-480V)†	SPR Square pole mounting (#8 drilling)
P2	P7	40K 4000K	70CRI	T2M Type II medium	XVOLT (277V-480V)†	RRA Round pole mounting (#8 drilling)
P3	P8	50K 5000K	70CRI	T3M Type III medium		SPAS Square pole mounting (#8 drilling)
P4	P9	(this section 80CRI only, extended lead times apply)	80CRI	T3LG Type III low glare†		RRAS Round pole mounting (#8 drilling)
P5	P10	(this section 80CRI only, extended lead times apply)	80CRI	T4M Type IV medium		SPARN Square narrow pole mounting (#8 drilling)
P6	P11	30K 3000K	80CRI	T4LC Type IV low glare†		WBA Mast arm adapter (mounts on 2.38" OD horizontal tenon)
P7	P12	35K 3500K	80CRI	T4TM Forward throw medium		MA Mast arm adapter (mounts on 2.38" OD horizontal tenon)
P8	P13	40K 4000K	80CRI			
P9	P14	50K 5000K	80CRI			

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REVISIONS

#	DATE	TYPE	DESCRIPTION
1	11/08/2024	ZONING RESUBMITTAL	
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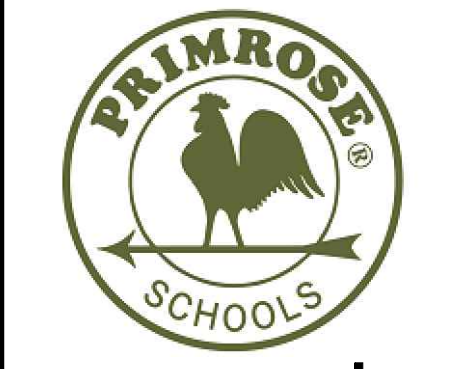
LIGHT FIXTURE CUT SHEETS

DATE 11/26/2024

JOB NO. 23529

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SHEET NO.



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LIGHT FIXTURE
CUT SHEETS

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D-Series Size 1 LED Area Luminaire

FIXTURE SP3

Specifications

EPA: 0.69 ft² (0.06 m²)
Length: 32.71" (831.1 mm)
Width: 14.26" (362.0 mm)
Height H1: 7.88" (200.0 mm)
Height H2: 2.73" (69.3 mm)
Weight: 34 lbs (15.4 kg)

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTair2 PIRHn DDBX

Series	LEDs	Color temperature	Color Rendering Index	Distribution	Voltage	Mounting
DSX1 LED	Forward optics	(This section 70CRI only)	70CRI	T3M Automotive front row	120V (277V-277V)	Shipped included
P1	P6	30K	3000K	T1S Type I cabinet	190VLT (247V-480V) ³	SPA Square pole mounting (R6 drilling)
P2	P7	40K	4000K	T2M Type II medium	XVOLT (277V-480V) ³	RPA Round pole mounting (R6 drilling)
P3	P8	50K	5000K	T3M Type III medium	120 V n.a.	RPA Round pole mounting (R6 drilling)
P4	P9	(This section 80CRI only, extended lead times apply)	80CRI	T3LG Type III low glare ¹	208 V n.a.	SPAS Square pole mounting (R6 drilling)
P5	(This section 90CRI only, extended lead times apply)	90CRI	90CRI	T4M Type IV medium	240 V n.a.	SPAS Square pole mounting (R6 drilling)
PI1	PI2	27K	2700K	T4GL Type IV low glare ¹	227 V n.a.	SPASN Square pole mounting (R6 drilling)
PI1	PI3	30K	3000K	T4GL Type IV low glare ¹	240 V n.a.	SPASN Square pole mounting (R6 drilling)
PI1	PI3	40K	4000K	TRM Forward three medium	347 V n.a.	WBA Wall bracket n.a.
PI1	PI3	50K	5000K		480 V n.a.	MA Mast arm adapter (mounts on 2.38" OD horizontal tension)

Control options	Other options	Finish options
Shipped installed NLTair2 PIRHn - nLight AIR gas 2 enabled with hi-level motor / ambient sensor in 40" mounting height, ambient sensor enabled at 2C (11.3° F) ² FIR - High/Low motor/ambient sensor, 6-40" mounting height, ambient sensor enabled at 2C (11.3° F) ² PERS - Five-pin recessed only (controls ordered separately) ²	PER7 - Seven-pin recessed only (controls ordered separately) ² FAO - Field adjustable output ¹ BL30 - Bi-level switched dimming, 30% n.a. ¹ BL50 - Bi-level switched dimming, 50% n.a. ¹ DMG - NEMA twist-lock recessed only (controls ordered separately) ² DS - Dual switching n.a. ^{1,2}	DDBX - Dark Bronze DDBW - Black DNMX - Natural Aluminum DDBW - White DDBDX - Textured dark bronze DDBDX - Textured black DNMX - Textured natural aluminum DDBWDX - Textured white

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	32° F	35° F	38° F	41° F	44° F	47° F	50° F
0°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10°C	1.00	0.97	0.94	0.91	0.88	0.85	0.82
20°C	1.00	0.94	0.89	0.85	0.81	0.77	0.74
30°C	1.00	0.87	0.81	0.77	0.73	0.69	0.66
40°C	1.00	0.79	0.72	0.67	0.63	0.59	0.56

Projected LED Lumen Maintenance

See table references the accelerated performance projections for the platforms noted in a 28°C ambient, based on 10,000 hours of LED testing based per IESNA LM-80-08 and projected per IESNA TM-21-11.

To calculate LM, use the Lumen maintenance factor that corresponds to the desired number of operating hours below for other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Voltage	% Lumen Output
8	100%	100%
7	75%	55%
6	50%	35%
5	25%	22%
4	10%	15%
3	5%	8%
2	2%	3%
1	1%	2%

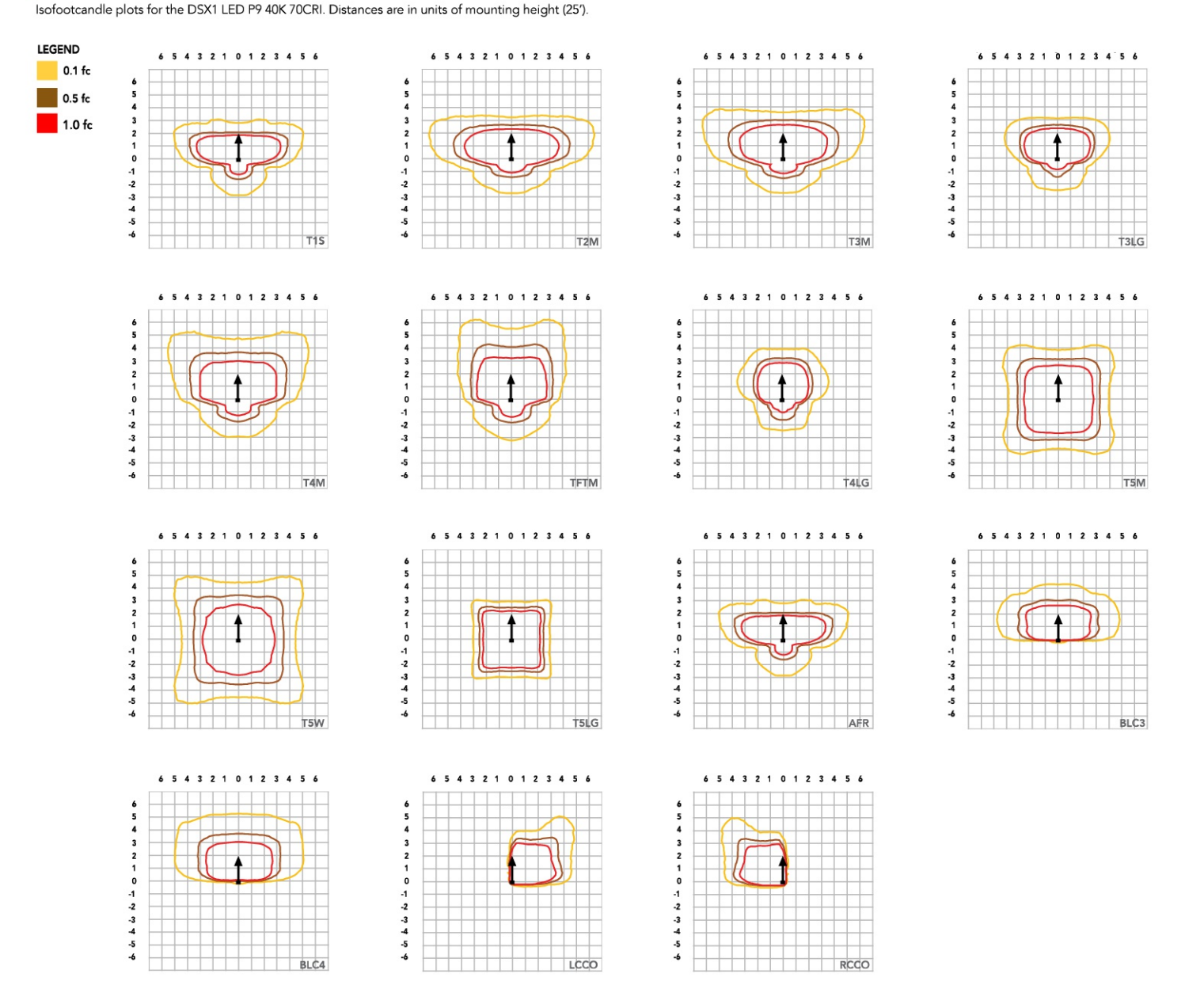
Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photo-occlusion Operation	dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2°C	7.5 min	3 sec	5 mm
NLTair2 PIRHn	30%	100%	Enabled @ 2°C	7.5 min	3 sec	5 mm

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire, used to fine-tune dimming levels.	Allows the luminaire to be manually dimmed, effectively increasing the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads.
DS (not available on DSX)	DS requires independent 0-10V dimming operation.	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drives	Requires two separately switched circuits. Consider all right A/E as a most cost effective alternative.
PERS or PER7	Two-pin recessed receptacle	Compatible with standard two-pin photocells for dark to dawn operation, or advanced control nodes such as HAZM.	Two-pin photocells such as DALI ETR or advanced control nodes such as HAZM.	Plus 4 & 5 to dimming leads on driver, Plus 6 & 7 are capped remote sensors. Cannot be used with other controls options that need the 0-10V leads.
PFR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when occupancy is detected.	Acuity Controls C/S6	Cannot be used with other controls options that need the 0-10V leads.
NLTair2 PIRHn	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor eye-ride when wirelessly connected to the nLight Edge.	nLight Air r/S6	nLight AIR sensors can be programmed and commissioned from the ground using the nLight Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.	BiC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) output by secondary circuit.	BiC UVD011	BiC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V.

Photometric Diagrams



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	32° F	35° F	38° F	41° F	44° F	47° F	50° F
0°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10°C	1.00	0.97	0.94	0.91	0.88	0.85	0.82
20°C	1.00	0.94	0.89	0.85	0.81	0.77	0.74
30°C	1.00	0.87	0.81	0.77	0.73	0.69	0.66
40°C	1.00	0.79	0.72	0.67	0.63	0.59	0.56

Projected LED Lumen Maintenance

See table references the accelerated performance projections for the platforms noted in a 28°C ambient, based on 10,000 hours of LED testing based per IESNA LM-80-08 and projected per IESNA TM-21-11.

To calculate LM, use the Lumen maintenance factor that corresponds to the desired number of operating hours below for other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Voltage	% Lumen Output
8	100%	100%
7	75%	55%
6	50%	35%
5	25%	22%
4	10%	15%
3	5%	8%
2	2%	3%
1	1%	2%

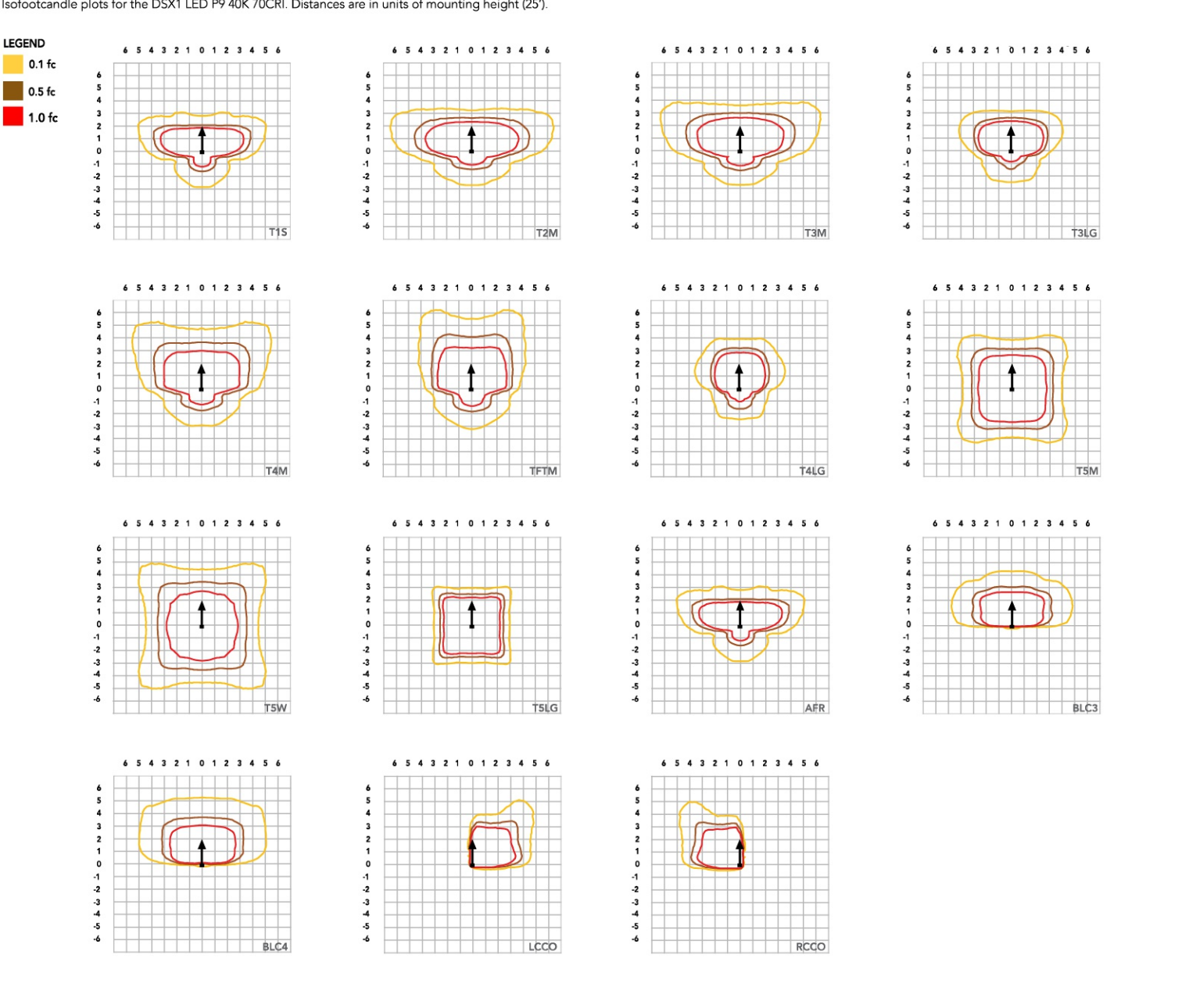
Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photo-occlusion Operation	dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2°C	7.5 min	3 sec	5 mm
NLTair2 PIRHn	30%	100%	Enabled @ 2°C	7.5 min	3 sec	5 mm

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire, used to fine-tune dimming levels.	Allows the luminaire to be manually dimmed, effectively increasing the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads.
DS (not available on DSX)	DS requires independent 0-10V dimming operation.	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drives	Requires two separately switched circuits. Consider all right A/E as a most cost effective alternative.
PERS or PER7	Two-pin recessed receptacle	Compatible with standard two-pin photocells for dark to dawn operation, or advanced control nodes such as HAZM.	Two-pin photocells such as DALI ETR or advanced control nodes such as HAZM.	Plus 4 & 5 to dimming leads on driver, Plus 6 & 7 are capped remote sensors. Cannot be used with other controls options that need the 0-10V leads.
PFR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when occupancy is detected.	Acuity Controls C/S6	Cannot be used with other controls options that need the 0-10V leads.
NLTair2 PIRHn	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor eye-ride when wirelessly connected to the nLight Edge.	nLight Air r/S6	nLight AIR sensors can be programmed and commissioned from the ground using the nLight Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.	BiC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) output by secondary circuit.	BiC UVD011	BiC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V.

Photometric Diagrams



Tenon Mounting Slipfitter

Mounting Option	Slipfitter	2 @ 180	2 @ 90	3 @ 120	4 @ 90
DSX1 with SPK	0.69	1.38	1.23	1.54	—
DSX1 with SPAS, SPASN	0.76	1.40	1.30	1.66	—
DSX1 with SPAS, SPASN	0.76	1.40	1.30	1.66	1.68
DSX1 with MA	0.83	1.66	1.50	2.29	2.89

Ordering Information

Accessories
Order and shipped separately

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Shield Accessories

External Glass Shield (EGSR)

House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION

Handhole

Top of Pole

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other sensors, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single 0x42	2 @ 90 0x42	2 @ 90 0x49	3 @ 120 0x42	4 @ 90 0x44
DSX1 with SPK	0.69	1.38	1.23	1.54	—
DSX1 with SPAS, SPASN	0.76	1.40	1.30	1.66	—
DSX1 with SPAS, SPASN	0.76	1.40	1.30	1.66	1.68
DSX1 with MA	0.83	1.66	1.50	2.29	2.89



D-Series Size 1 LED Area Luminaire

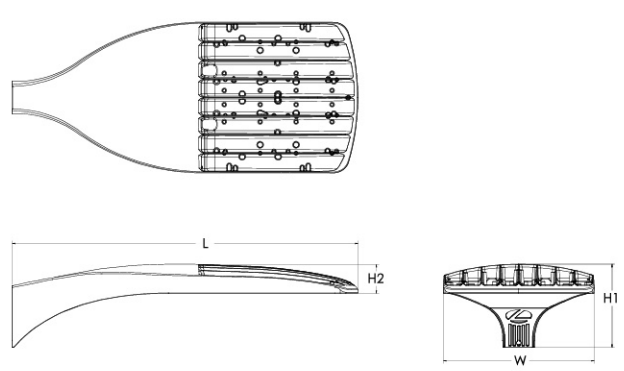
FIXTURE SP4



The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in spacing with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Specifications
EPA: 0.69 ft² (0.65 m²)
Length: 32.71" (831 mm)
Width: 14.26" (362 mm)
Height H1: 7.88" (200 mm)
Height H2: 2.73" (69 mm)
Weight: 34 lbs (15.4 kg)



Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DBXBD

Series	LEDs	Color temperature*	Color Rendering Index*	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 Recessed optics P10 ¹ P12 ¹ P11 ¹ P13 ¹	(this section 70CRI only) 3000K 70CRI 4000K 4000K 70CRI 500K 5000K 70CRI (this section 80CRI only, extended beam times apply) 27K 2700K 80CRI 30K 3000K 80CRI 35K 3500K 80CRI 40K 4000K 80CRI 50K 5000K 80CRI		AIR Automotive front row T15 Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare ¹ T4M Type IV medium T4CG Type IV low glare ¹ T4TM Forward throw medium	MVOLT 120V-277V ¹ WVOLT 240V-480V ¹ XVOLT 277V-480V ¹ 120 V ^{1,2} 208 V ^{1,2} 240 V ^{1,2} 277 V ^{1,2} 347 V ^{1,2} 480 V ^{1,2}	Shipped included SPA Square pole mounting (#6 drilling) RPA Round pole mounting (#6 drilling) SPLS Square pole mounting (#5 drilling) RPLS Round pole mounting (#5 drilling) SPLN Square pole mounting (#8 drilling) RPLN Round pole mounting (#8 drilling) WBA Mast arm adapter (mounts on 2.38" OD horizontal tenon) MA Mast arm adapter

Control options	Other options	Finish review	
Shipped installed NLTAR2 PIRHN Night AIR gen 2 enabled with bi-level ambient sensor 2.40' mounting height, ambient sensor enabled at 2% -10.5% PIR High/Low motion/ambient sensor 5-40' mounting height, ambient sensor enabled at 2% -10.5% PER NEMA twist lock receptacle only (controls ordered separately) ¹ PERS Five-pin receptacle only (controls ordered separately) ^{1,2}	PER7 Seven-pin receptacle only (controls ordered separately) ^{1,2} FAO Field adjustable output ^{1,2} BL50 Bi-level switched dimming, 50% -10.5% DMC 0-10V dimming wire pulled outside fixture (for use with an external control, ordered separately) ^{1,2} DS Dual switching ^{1,2,3,4}	Shipped installed SPD20KV 20KV surge protection HS Homeseek shield (black finish standard) ¹ L90 Left recessed optics ¹ R90 Right recessed optics ¹ CEE Coastal Construction ¹ HA 50°C ambient operation ¹ BAA Buy America(s) Act Compliant SF Single face (120, 277, 347V) ¹ DF Double face (208, 240, 480V) ^{1,2} Shipped separately EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)	DOBBD Dark Bronze DBRD Black DMXD Natural Aluminum DWDW White DOBDD Textured dark bronze DORDD Textured dark black DMXD Textured natural aluminum DWDGD Textured white

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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	LA/T	Lumen Multiplier
0°C	1.04	1.04
5°C	1.03	1.03
10°C	1.02	1.02
15°C	1.01	1.01
20°C	1.00	1.00
25°C	0.99	0.99
30°C	0.98	0.98
35°C	0.97	0.97
40°C	0.96	0.96

Electrical Load

Performance Package	LED Count	Drive Current (mA)	Wattage	120V	208V	240V	277V	347V	480V
P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
P4	30	1250	125	1.03	0.60	0.53	0.45	0.34	0.26
P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
P6	40	1250	107	1.08	0.59	0.60	0.48	0.41	0.34
P7	40	1400	108	1.54	0.69	0.77	0.67	0.53	0.38
P8	40	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
P10	60	530	101	0.84	0.49	0.43	0.37	0.29	0.21
P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

TCRI	80CRI	90CRI				
Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability	
5000K	102%	Standard	92%	Extended lead time	71%	(see note)
4000K	100%	Standard	92%	Extended lead time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead time	63%	(see note)
3000K	96%	Standard	87%	Extended lead time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

FAO Dimming Settings

FAO Position	% Voltage	% Lumen Output
8	100%	100%
7	95%	95%
6	80%	85%
5	66%	73%
4	54%	63%
3	41%	49%
2	29%	36%
1	15%	23%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package based on specification sheet (input watts and lumens by optic type).

Motion Sensor Default Settings

Option	Occupied Dimmed Level	High Level (when occupied)	Photocontrol Operation	Default Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2°C	7.5 min	3 sec	5 min
NLTAR2 PIRHN	30%	100%	Enabled @ 2°C	7.5 min	3 sec	5 min

Controls Options

Name/feature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire, wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads.
DS (see available on DSDB)	Seven-wire independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately patched circuits. Consider night AIR as a more cost effective alternative.
PER or PER7	Twist lock photocell receptacle	Compatible with standard twist-lock photocells for dusk-to-dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLE Elite or advanced control nodes such as RWAM.	Peris 4 & 5 to dimming leads on driver. Peris 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls CSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAR2 PIRHN	slight and installed luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Checked dimming with motion sensor eye-ride when wireless connected to the slight Edge.	slight Air v56	slight AIR sensors can be programmed and commissioned from the ground using the Utility Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.	BiC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit.	BiC LEDV71	BiC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120V to 480V.

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Ordering Information

Accessories

Options and shipped separately.

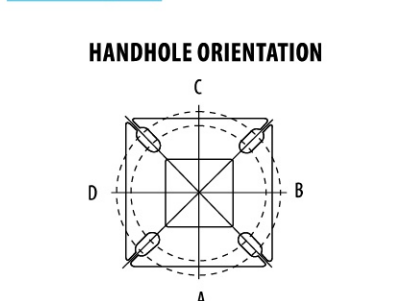
- BL1211 L15H Photocell - 50L twist lock (120-277V)¹
 - BL1411 L15LR Photocell - 50L twist lock (347V)¹
 - BL1481 L15CLR Photocell - 50L twist lock (480V)¹
 - D50R13K Shoring up¹
 - DSX15YR Three-die dimmer (see package number 1-15 in page #6)
 - DSMRA PIRHN Round pole adapter (8' ceiling, specify finish)
 - DSMRA PIRHN Square pole adapter (8' ceiling, specify finish)
 - DSMRA PIRHN Round pole adapter (5' ceiling, specify finish)
 - DSMRA PIRHN External glare shield (specify finish)
 - DSMROB PIRHN Integrate Obsolete housing (specify finish)
- NOTES:
1. Recessed optics available with packages P10, P11, P12 and P13. Must be combined with option LR or R90.
2. 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3. T3LG, T3CG, T4CG, BLCC, LCCO, RCCO not available with option T5.
4. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5. MVOLT driver operates on any line voltage from 240-480V (50/60 Hz).
6. MVOLT driver operates with package P1 and P10 when combined with option NLTAR2 PIRHN or option PIR.
7. MVOLT driver operates on any line voltage from 277V and 480V (50/60 Hz).
8. XVOLT not available in package P1 or P10. XVOLT not available with lighting DF or DF1.
9. SPD and RPA for use with 0-10V dimming only for use with 0-10V dimming.
10. WBA cannot be combined with Type 5 distributions plus photocell PIR.
11. NLTAR2 and PIRHN must be ordered together for more information on night AIR see the link.
12. NLTAR2 PIRHN not available with other controls including PIR, PER, PERS, PER7, FAO, BL, BL30, BL50, DMG and DS. NLTAR2 PIRHN not available with P1 and P10 using MVOLT.
13. PIR not available with NLTAR2 PIRHN, PER, PERS, PER7, FAO, BL, BL30, DMG and DS. PIR not available with P1 and P10 using MVOLT. PIR not available with P1 and P10 using XVOLT.
14. PIR/PERS/PER7 not available with NLTAR2 PIRHN, PER, BL, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Controls. See accessories. Shipping Cost included.
15. FAO not available with other dimming control options NLTAR2 PIRHN, PER, PERS, PER7, BL, BL30, BL50, DMG and DS.
16. BL30 and BL50 are not available with NLTAR2 PIRHN, PER, PERS, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120, 277 or 347V. Consult DS requires DS separately method (see DS). DS provides 50/50 future operation via DS1 different sets of leads using DS1 drivers. DS only available with package P1, P10, P11, P12 and P13.
17. DMG not available with NLTAR2 PIRHN, PER, PERS, PER7, BL, BL30, BL50, FAO and DS.
18. DS not available with NLTAR2 PIRHN, PER, PERS, PER7, BL, BL30, BL50, FAO and DMG.
19. DS requires DS separately method (see DS). DS provides 50/50 future operation via DS1 different sets of leads using DS1 drivers. DS only available with package P1, P10, P11, P12 and P13.
20. Reference Motion Sensor Default Settings table on page 4 to see functionality.
21. Reference Controls Option table on page 4.
22. HS not available with T3CG, T4CG, BLCC, BLCCO and RCCO distribution. Also available as a separate accessory, see Accessories information.
23. CEE option not available with option BS and EGSR. Contact Technical Support for availability.
24. Option HA not available with performance package P1, P5, P7, P9 and P13.
25. Requires luminaire to be specified with PER, PER7 or PER8 option. See Controls table on page 4.
26. Single face DS1 requires 120V, 277V or 347V. Double face DS1 requires 208V, 240V or 480V. XVOLT not available with lighting DF or DF1.

Shield Accessories



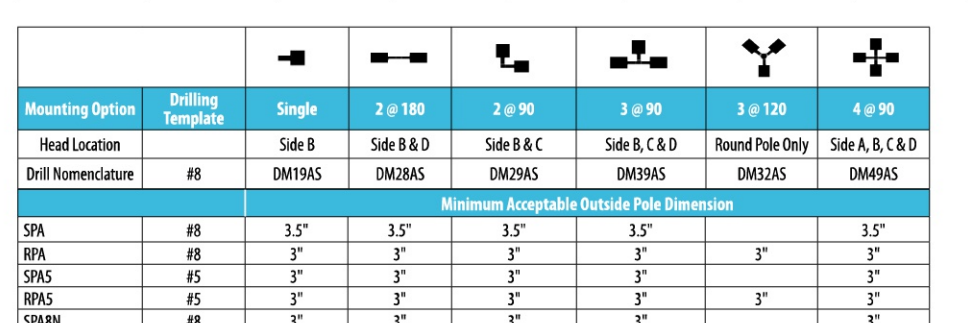
External Glare Shield (EGSR) House Side Shield (HS)

Drilling



Tenon Mounting Slipfitter

Tenon O.D.	BSA	ASS-5100	ASS-5200	ASS-5300	ASS-5300	ASS-5300	ASS-5300	ASS-5300
2.38"	BPA	ASTS-190	ASTS-200	ASTS-200	ASTS-200	ASTS-200	ASTS-200	ASTS-200
2.38"	BPA	ASTS-190	ASTS-200	ASTS-200	ASTS-200	ASTS-200	ASTS-200	ASTS-200
4"	BPA	ASTS-190	ASTS-200	ASTS-200	ASTS-200	ASTS-200	ASTS-200	ASTS-200



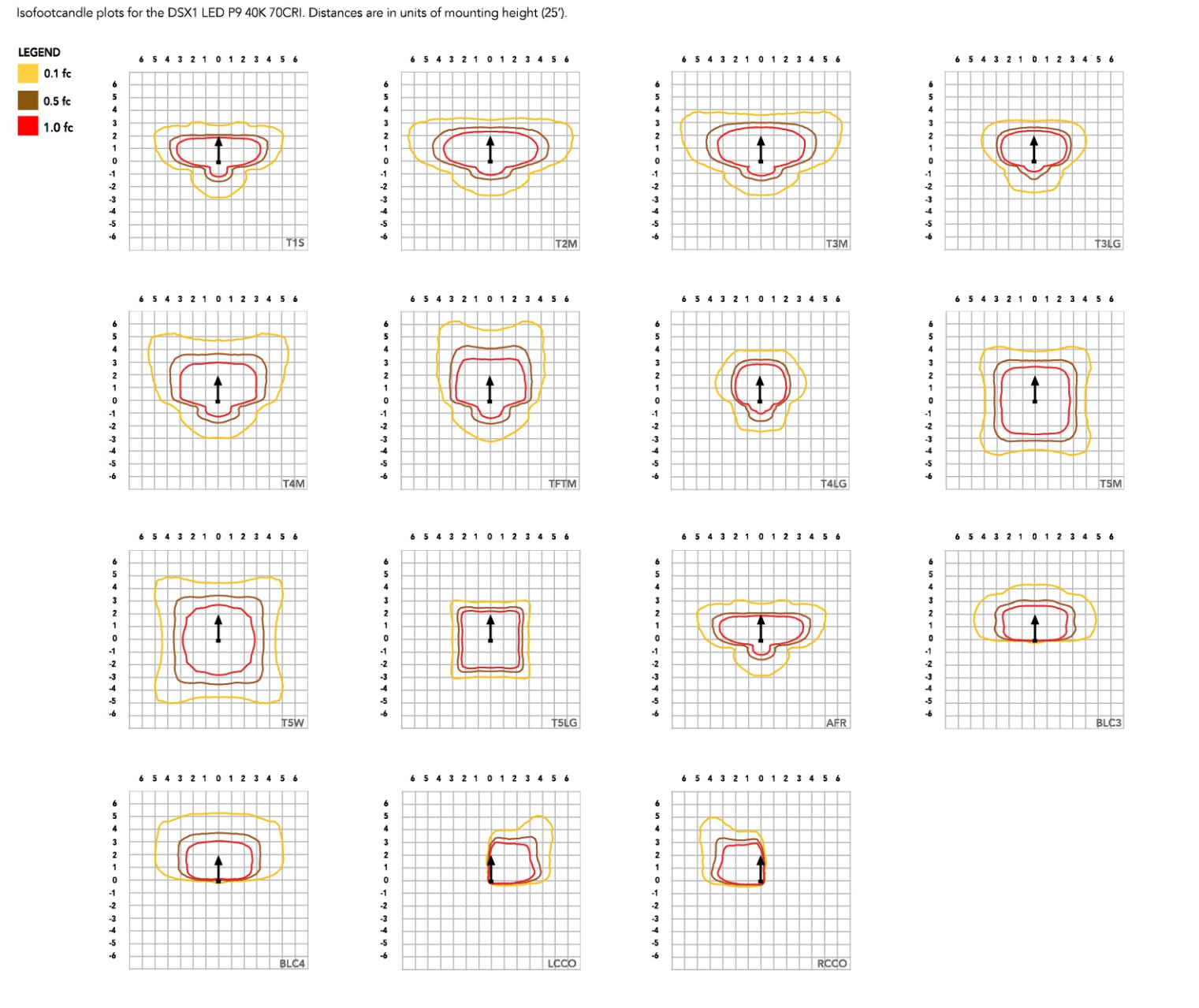
DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Mounting type	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPLS, SPLN	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPLS	0.70	1.40	1.30	1.66	1.40	1.68
DSX1 with MA	0.80	1.66	1.56	2.09	2.09	2.09

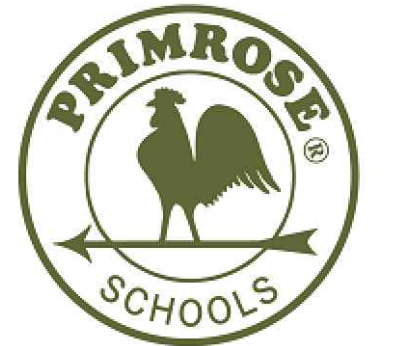
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Photometric Diagrams



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PRELIMINARY NOT FOR CONSTRUCTION



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471 E 75TH STREET

REVISIONS

#	DATE	TYPE
1	11/08/2024	ZONING RESUBMITTAL
2		
3		
4		
5		
6		
7		
8		
9		
10		

LIGHT FIXTURE CUT SHEETS

DATE 11/26/2024
JOB NO. 23529

PH1.3
SHEET NO.

