

PHOTOMETRIC SITE PLAN GENERAL NOTES

1. THESE PLANS ARE ACCURATE AND DESIGNED IN COMPLIANCE WITH AND MEET THE REQUIREMENTS OF THE CITY OF xx / TOWN OF xx OUTDOOR LIGHTING ORDINANCE IN EFFECT AT THE TIME OF THE SUBMISSION OF PLANS.
2. ALL CALCULATIONS SHOWN ARE AT THE GROUND LEVEL AND ARE MEASURED HORIZONTALLY.
3. LIGHTING CALCULATIONS HAVE BEEN PRODUCED USING AGI32 LIGHTING SOFTWARE BY LIGHTING ANALYSTS, INC.



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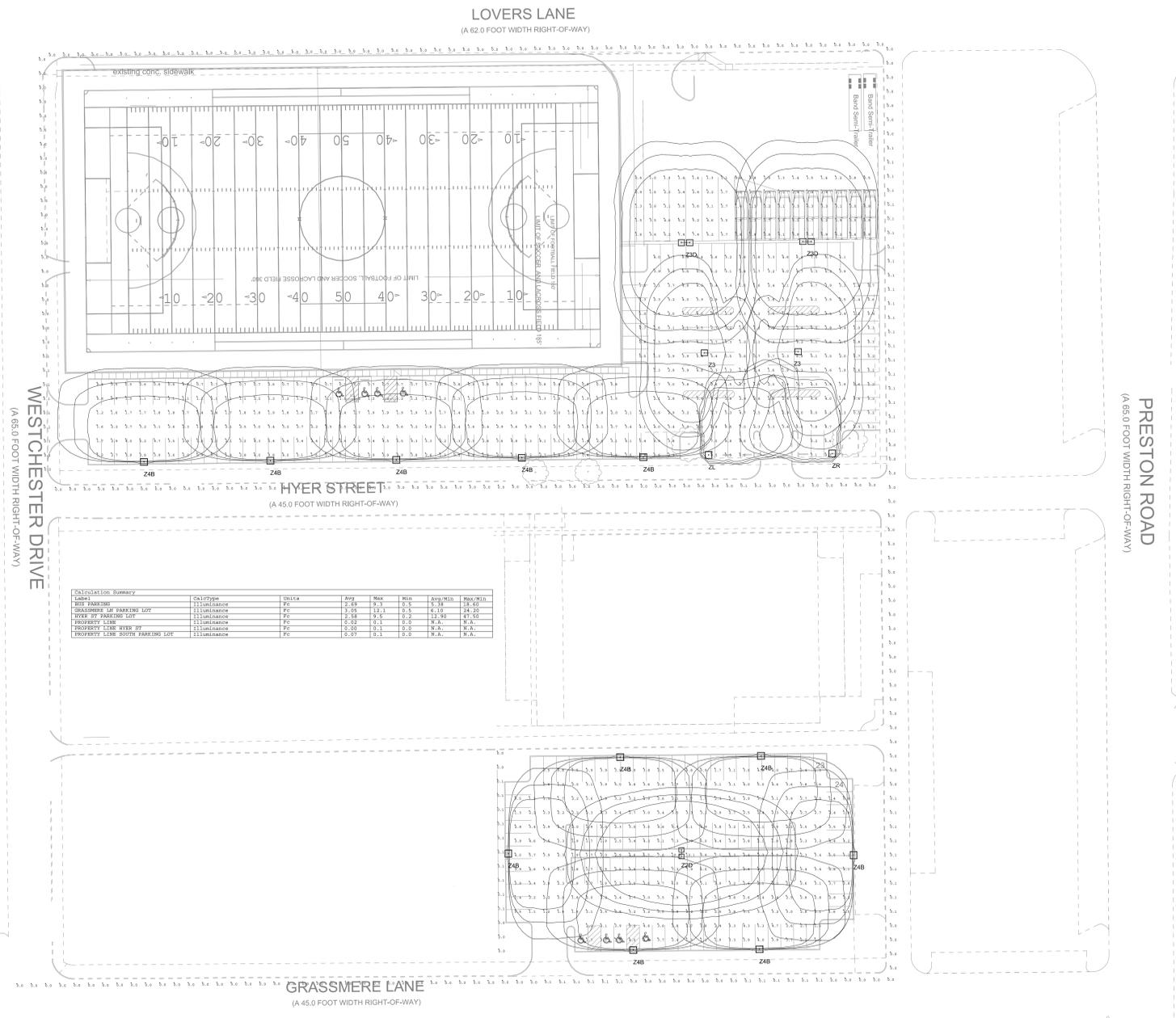
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HIGHLAND PARK ISD
 4220 Emerson Ave, Dallas, TX 75205

HIGHLAND PARK HIGH SCHOOL RENOVATION



Calculation Summary

Category	Calc Type	Area	Peak	Min	Avg	Max	Min
LAND	Illuminance	2.59	9.3	0.5	5.78	39.60	24.00
EXIST PARKING	Illuminance	2.59	9.3	0.5	5.78	39.60	24.00
PROPOSED OR PARKING LOT	Illuminance	2.59	9.3	0.5	5.78	39.60	24.00
VIEW BY PARKING LOT	Illuminance	2.59	9.3	0.5	5.78	39.60	24.00
PROPERTY LINE	Illuminance	0.00	0.0	0.0	N/A	N/A	N/A
PROPERTY LINE VIEW BY	Illuminance	0.00	0.0	0.0	N/A	N/A	N/A
PROPERTY LINE BUFFER PARKING LOT	Illuminance	0.00	0.0	0.0	N/A	N/A	N/A

1 PHOTOMETRIC SITE PLAN
 1"=40'-0"

100% Construction Documents Review

REVIEW ONLY
 NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION

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 Date: 2/2/2026 4:03:32 PM

Project Issued: 03/14/2025

REVISIONS
 Revision No. Revision Date

Director: MN
 Proj. Arch.: HA

PROJECT NO.

25-0004.00

SHEET TITLE

PHOTOMETRIC SITE PLAN

SHEET NO.

ES1.2

EMA Engineering & Consulting, Inc.
 Tyler | Austin | Houston | El Paso
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 Texas Firm Registration No. F-893
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DESIGN SOLVE ENHANCE

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.



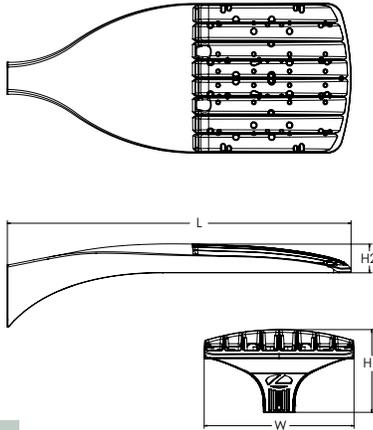
D-Series Size 1 LED Area Luminaire



d#series

Specifications

EPA:	0.69 ft ² (0.06 m ²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



ds Design Select options indicated by this color background.

Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

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 sites 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.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED	Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution	Voltage	Mounting				
DSX1 LED	Forward optics	(this section 70CRI only)		70CRI	AFR Automotive front row	TSM Type V medium	Shipped included				
		P1 P6	30K 3000K					T1S Type I short	MVOLT (120V-277V) ⁴	SPA Square pole mounting (#8 drilling)	
		P2 P7	40K 4000K					T2M Type II medium	HVOLT (347V-480V) ^{5,6}	RPA Round pole mounting (#8 drilling)	
		P3 P8	50K 5000K					T3M Type III medium	XVOLT (277V - 480V) ^{7,8}	SPA5 Square pole mounting #5 drilling ⁹	
		P4 P9						T3LG Type III low glare ³	120 ^{16,26}	RPA5 Round pole mounting #5 drilling ⁹	
		P5	27K 2700K					T4M Type IV medium	208 ^{16,26}	SPA8N Square narrow pole mounting #8 drilling	
		Rotated optics	30K 3000K					T4LG Type IV low glare ³	240 ^{16,26}	WBA Wall bracket ¹⁰	
			35K 3500K					TFTM Forward throw medium	277 ^{16,26}		MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
			40K 4000K					LCCO Left corner cutoff ³	347 ^{16,26}		
			40K 4000K					RCCO Right corner cutoff ³	480 ^{16,26}		
			P10 ¹ P12 ¹					50K 5000K			
		P11 ¹ P13 ¹	50K 5000K								

Control options	Other options	Finish (required)
<p>Shipped installed</p> <p>NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.^{11,12,20,21}</p> <p>PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.^{13,20,21}</p> <p>PER NEMA twist-lock receptacle only (controls ordered separately)¹⁴</p> <p>PER5 Five-pin receptacle only (controls ordered separate)^{14,21}</p> <p>PER7 Seven-pin receptacle only (controls ordered separate)^{18,21}</p> <p>FAO Field adjustable output^{15,21}</p> <p>BL30 Bi-level switched dimming, 30%^{16,21}</p> <p>BL50 Bi-level switched dimming, 50%^{16,21}</p> <p>DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)¹⁷</p> <p>DS Dual switching^{18,19,21}</p>	<p>Shipped installed</p> <p>SPD20KV 20KV surge protection</p> <p>HS Houseside shield (black finish standard)²²</p> <p>L90 Left rotated optics¹</p> <p>R90 Right rotated optics¹</p> <p>CCE Coastal Construction²³</p> <p>HA 50°C ambient operation²⁴</p> <p>BAA Buy America(n) Act and/or Build America Buy America Qualified</p> <p>SF Single fuse (120, 277, 347V)²⁵</p> <p>DF Double fuse (208, 240, 480V)²⁶</p> <p>Shipped separately</p> <p>EGSR External Glare Shield (reversible, field install required, matches housing finish)</p> <p>BSDB Bird Spikes (field install required)</p>	<p>DDBXD Dark Bronze</p> <p>DBLXD Black</p> <p>DNAXD Natural Aluminum</p> <p>DWHXD White</p> <p>DDBTXD Textured dark bronze</p> <p>DBLBXD Textured black</p> <p>DNATXD Textured natural aluminum</p> <p>DWHGXD Textured white</p>



Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXSPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

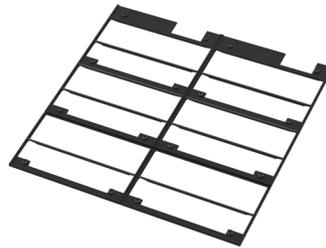
NOTES

- Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- XVOLT not available in packages P1 or P10. XVOLT not available with P1, P2, P5, P7, P9, P10, P11 and P13 when combined with option NLTAIR2 PIRHN or PIR. XVOLT not available with fusing (SF or DF).
- SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type 5 distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#)
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT.
- PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS.
- PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



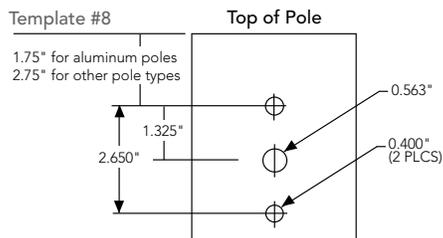
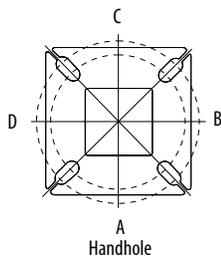
External Glare Shield (EGSR)



House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

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

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [homepage](#).

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

