

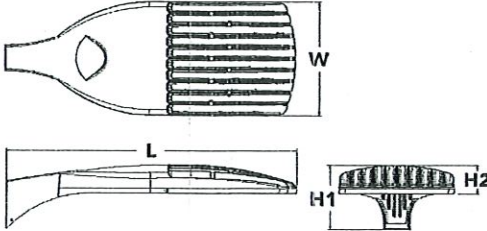
D-Series Size 1 LED Area Luminaire

d^{series}



Specifications

EPA:	1.01 ft ² (0.09 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



Catalog Number	
Notes	
Type	

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

A+ Capable options indicated by this color background.

Ordering Information

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

DSX1 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting	
DSX1 LED	Forward optics		T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium	TSVS Type V very short T5S Type V short TSM Type V medium TSW Type V wide BLC Backlight control ² LCCO Left corner cutoff ² RCCO Right corner cutoff ²	MVOLT ³ 120 ⁴ 208 ⁴ 240 ⁴ 277 ⁴ 347 ^{4,5} 480 ^{4,5}	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ⁶ RPUMBA Round pole universal mounting adaptor ⁶ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁷
	P1 P4 P7 P2 P5 P8 P3 P6 P9	30K 3000K 40K 4000K 50K 5000K				
	Rotated optics P10 ¹ P12 ¹ P11 ¹ P13 ¹					

Control options	Other options	Finish options
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ⁸ PIRHN Network, high/low motion/ambient sensor ⁹ PER NEMA twist-lock receptacle only (controls ordered separate) ¹⁰ PER5 Five-pin receptacle only (controls ordered separate) ^{10,11} PER7 Seven-pin receptacle only (controls ordered separate) ^{10,11} DMG 0-10v dimming wires pulled outside fixture (for use with external control, ordered separately) ¹² DS Dual switching ^{10,14}	Shipped installed HS House-ride shield ¹³ SF Single fuse (120, 277, 347V) ⁴ DF Double fuse (208, 240, 480V) ⁴ L90 Left rotated optics ¹ R90 Right rotated optics ¹ Shipped separately BS Bird spikes ⁴ EGS External glare shield ¹⁴	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DDBLXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



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Ordering Information

Accessories

Ordered and shipped separately.

DL1127F 1.5 CU JU	PhotoCell - SSL twist-lock (120-277V)™
DL1347F 1.5 CU JU	PhotoCell - SSL twist-lock (147V)™
DL1480F 1.5 CU LU BJ	PhotoCell - SSL twist-lock (180V)™
DSH01 5SKU	Shoring cap™
DSXHS 30CU	House-side shield for P1, P2, P3, P4 and P5™
DSXHS 40CU	House-side shield for P6 and P7™
DSXHS 60CU	House-side shield for P8, P9, P10, P11 and P12™
FUMBA D05SD U*	Square and round pole universal mounting bracket (specify finish)™
KMAE D08SD U	Max arm mounting bracket adaptor (specify finish)™

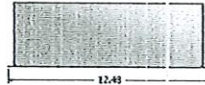
For more control options, visit DLI and ACU online.

NOTES

- P10, P11, P12 or P13 and rotated optics (R50, R90) only available together.
- Not available with HS.
- INOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P1 or P10.
- Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with INLTAR2. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with INLTAR2. For more information on night Air 2 visit DLI.
- PhotoCell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shoring cap included.
- If ROAM mode required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PERS, PER7, PIR or PIR1. Not available with P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits with isolated neutrals. See Outdoor Control Technical Guide for details.
- Reference Motion Sensor table on page 4.
- Reference controls options table on page 4 to see functionality.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PERS or PER7 option. See PER Table on page 3.
- For retrofit use only.

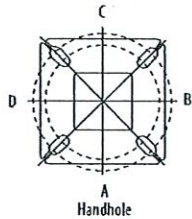
Options

EGS - External Glare Shield



Drilling

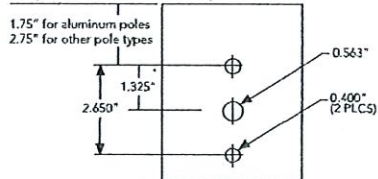
HANDHOLE ORIENTATION



Tenon Mounting Spiffitter**

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
2-3/8"	SPA/RPA	AS3-5190	AS3-5280	AS3-5290	AS3-5320	AS3-5390	AS3-5490
	SPUMBA	AS3-5190	AS3-5280	AS4-5290	AS3-5320	AS4-5390	AS4-5490
	FUPUMBA	AS3-5190	AS3-5280		AS3-5320		
2-7/8"	SPA/RPA	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
	SPUMBA	AST25-190	AST25-280		AST25-320		
	FUPUMBA	AST25-190	AST25-280		AST25-320		
4"	SPA/RPA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	SPUMBA	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490
	FUPUMBA	AST35-190	AST35-280		AST35-320		

Template #8



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 C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

	Drilling Template	Minimum Acceptable Pole Side Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"



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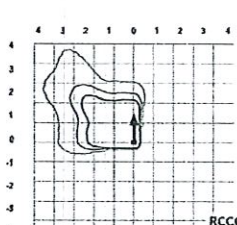
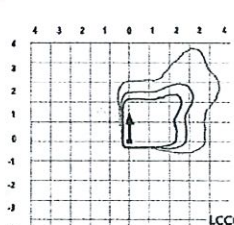
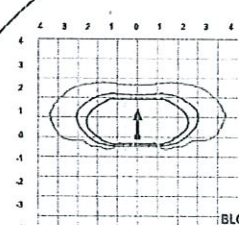
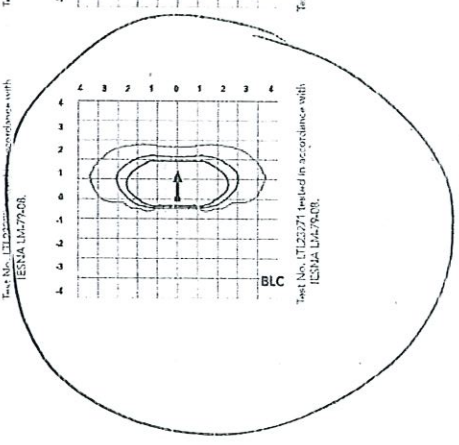
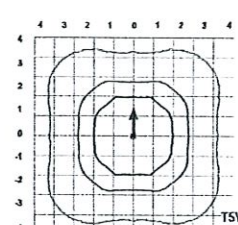
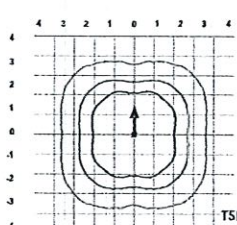
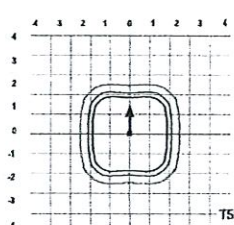
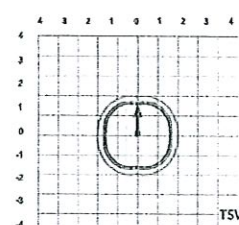
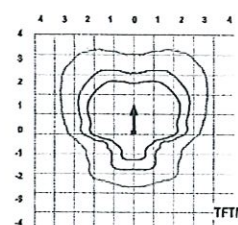
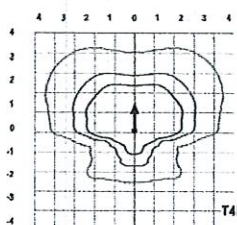
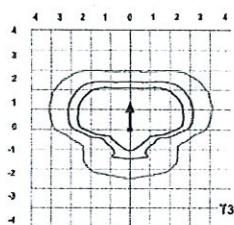
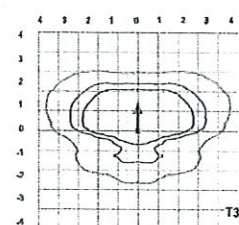
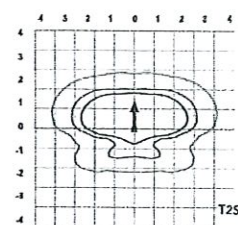
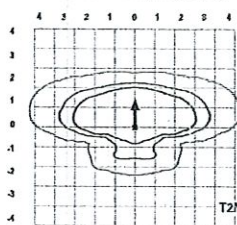
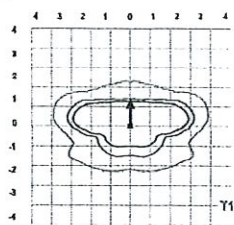
COMMERCIAL OUTDOOR

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').

LEGEND



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		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-03 and projected per IESNA TM-21-11).

To calculate LLF, 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	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Electrical Load

Performance Package	LED Count	Drive Current	Average	Current (A)						
				120	208	240	277	347	480	
Forward Optics (Non-Rotated)	P1	30	530	1.4	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	1.0	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	1.02	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	1.25	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	1.38	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	1.53	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	1.83	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	2.37	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	2.41	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	1.16	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	1.17	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	2.37	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	2.31	1.93	1.12	0.97	0.85	0.67	0.49

Controls Options				
Nomenclature	Description	Functionality	Primary control device	Notes
FA0	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.	FA0 device	Cannot be used with other controls options that need the 0-10V leads.
DS	Drivers wired 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 switched circuits. Consider nLight ABR as a more cost effective alternative.
PERS 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 DLL Elite or advanced control nodes such as RC AM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire.
PIR or PIRH	Motion sensors with integral photocell. PIR for 6-15' mounting; PIRH for 15-30' mounting.	Luminaires dim when no occupancy is detected.	Acuity Controls SBOR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
nLight2 PIRH	nLight ABR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor override when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight ABR sensors can be programmed and commissioned from the ground using the nLight Pro app.