



D-Series Size 0

Amber Series

Legacy LED Area Luminaire



Catalog Number
Notes
Type

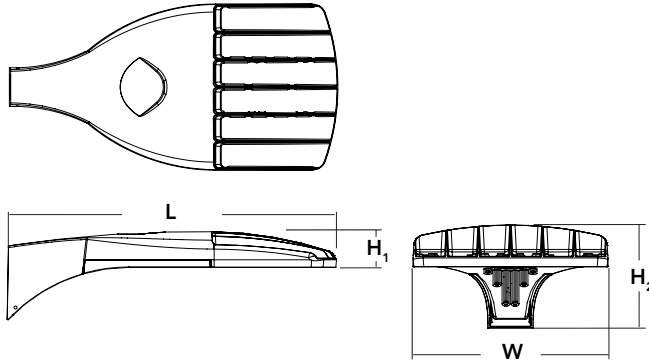
Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series 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 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Specifications

EPA:	0.95 ft ² (.09 m ²)
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height ₁ :	3" (7.62 cm)
Height ₂ :	7" (17.8 cm)
Weight (max):	16 lbs (7.25 kg)



Ordering Information

EXAMPLE: DSX0 LED P4 AMBLW T3M MVOLT SPA DDBXD G1

Series	LEDs	Color temperature	Distribution	Voltage	Mounting (required)	
DSX0 LED	Forward optics P1 P4 P2 P5 P3 P6 Rotated optics P10 ¹ P12 ¹ P11 ¹	AMBLW Limited Wavelength Amber ² AMBPC Phosphor Converted Amber	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 T5VS Type V very short ³	T5S Type V short ³ T5M Type V medium ³ T5W Type V wide ³ BLC Backlight control LCCO Left corner cutoff RCCO Right corner cutoff	MVOLT ^{4,5} 120 ⁵ 208 ⁵ 240 ⁵ 277 ⁵ 347 ⁵ 480 ⁵	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket ³ 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

Control options	Other options	Finish (required)	Generation (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ^{8,9} PIRHN Network, high/low motion/ambient sensor ¹⁰ PER NEMA twist-lock receptacle only (control ordered separate) ¹¹ PER5 Five-pin receptacle only (control ordered separate) ^{11,12} PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) ^{11,12} DMG 0-10V dimming extend out back of housing for external control (control ordered separate) ¹³	PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ^{14,15} PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ^{14,15} PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{14,15} PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{14,15} FAO Field adjustable output ¹⁶	Shipped installed HS House-side shield ¹⁷ SF Single fuse (120, 277, 347V) ⁵ DF Double fuse (208, 240, 480V) ⁵ L90 Left rotated optics ¹ R90 Right rotated optics ¹ DDL Diffused drop lens ¹⁸ BAA Buy America(n) Act Compliant Shipped separately BS Bird spikes ¹⁹ EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white G1 Generation 1



Ordering Information

Accessories

Ordered and shipped separately.

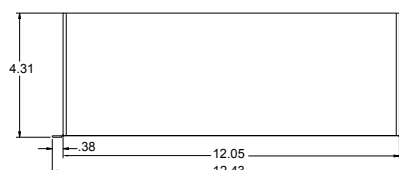
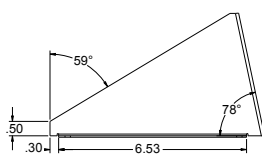
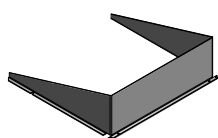
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹⁹
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹⁹
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹⁹
DSHORT SBK U	Shorting cap ¹⁹
DSX0HS 20C U G1	House-side shield for P1, P2, P3 and P4 ¹⁷
DSX0HS 30C U G1	House-side shield for P10, P11 and P12 ¹⁷
DSX0HS 40C U G1	House-side shield for P5, P6 and P7 ¹⁷
DSX0DDL U G1	Diffused drop lens (polycarbonate) ¹⁷
PUMBA DDBXD U G1*	Square and round pole universal mounting bracket adaptor (specify finish) ²⁰
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ¹⁷

For more control options, visit [DTL](#) and [ROAM](#) online. Link to [nLight Air 2](#)

NOTES

- P10, P11 or P12 must have L90 or R90.
- AMBLW only available in P1, P4 and P10.
- Any Type 5 distribution, is not available with WBA.
- MVOLT 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.
- Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANGI C136.31.
- Must order fixture with SPA mounting. KMA8 must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN.
- Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included. Not available with DMG or FAO.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
- Reference Motion Sensor table on page 5.
- Reference Controls Options table on page 5.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option.
- For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

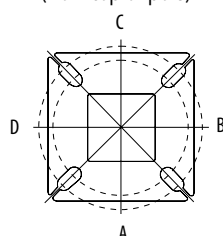
EGS – External Glare Shield



Drilling

Tenon Mounting Slipfitter**

HANDHOLE ORIENTATION (from top of pole)

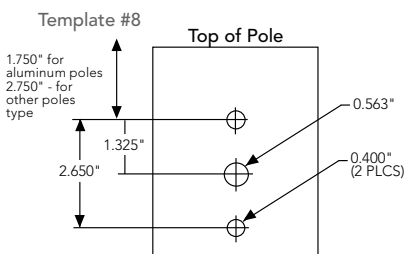


Handhole

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
2-3/8"	SPA/RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
	SPUMBA	AS3-5 190	AS3-5 280	AS4-5 290	AS3-5 320	AS4-5 390	AS4-5 490
	RUPUMBA	AS3-5 190	AS3-5 280		AS3-5 320		
2-7/8"	SPA/RPA	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
	SPUMBA	AST25-190	AST25-280		AST25-320		
	RUPUMBA	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
	RUPUMBA	AST35-190	AST35-280		AST35-320		

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

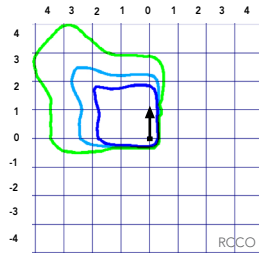
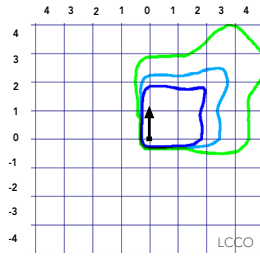
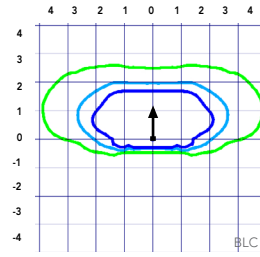
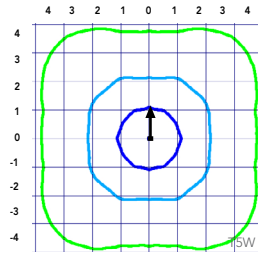
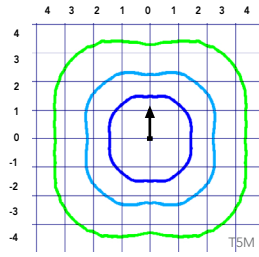
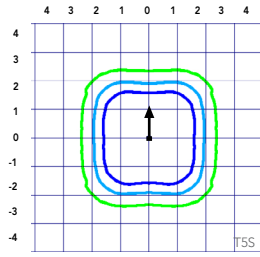
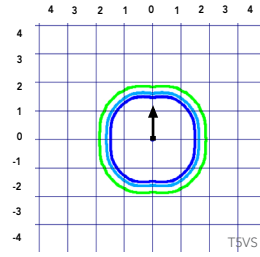
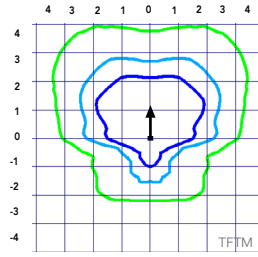
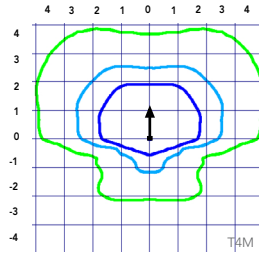
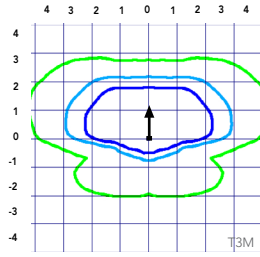
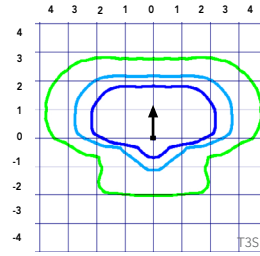
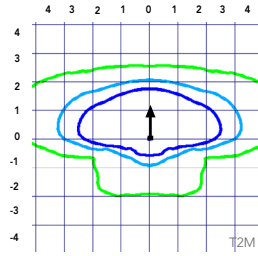
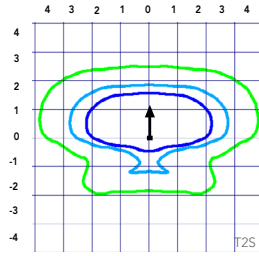
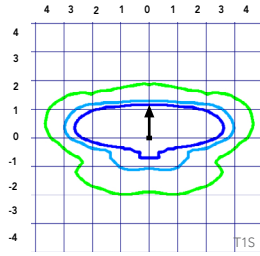
	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"



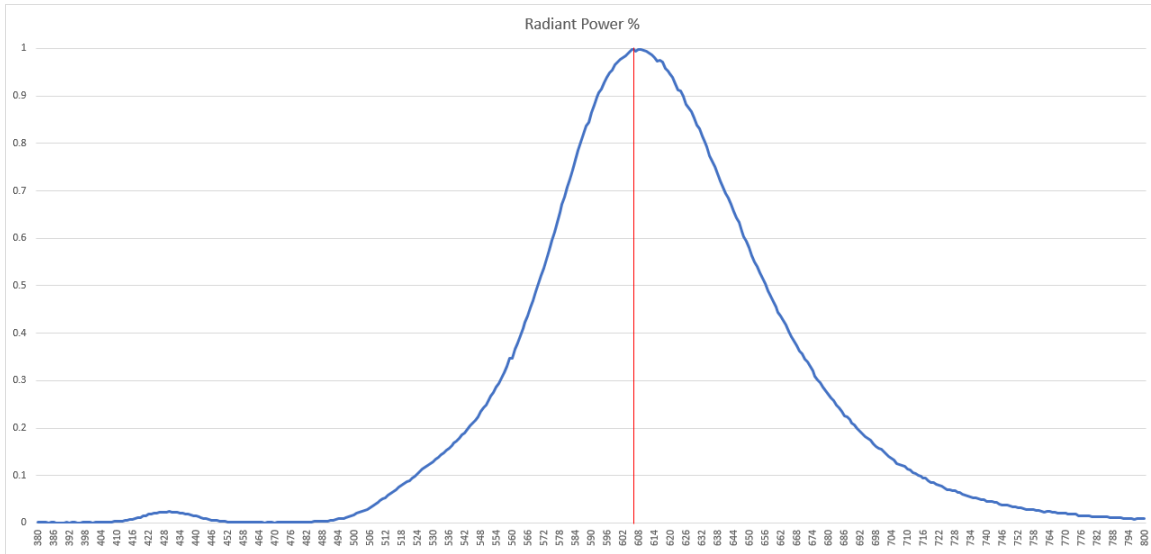
Isofootcandle plots for the DSX0 LED G1. Distances are in units of mounting height (20').

LEGEND

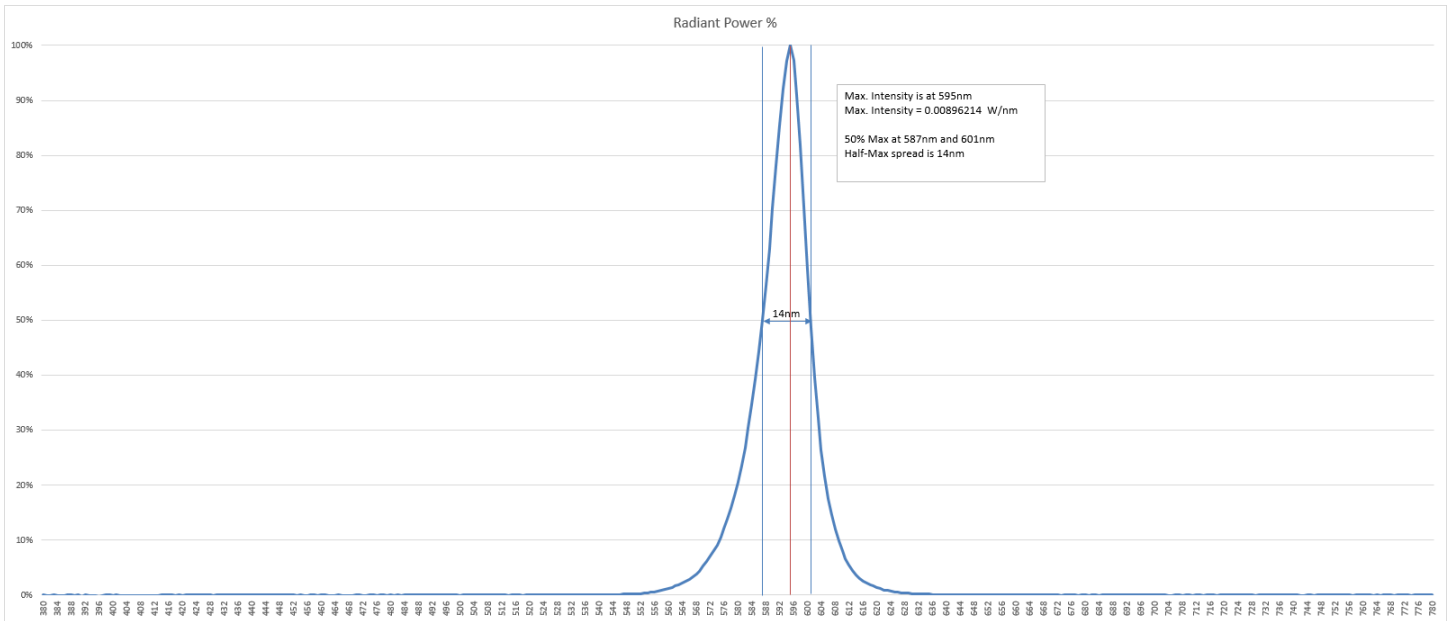
- 0.1 fc
- 0.5 fc
- 1.0 fc



AMBPC - Phosphor Converted Amber



AMBLW - True Limited Wavelength Amber



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-80-08 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
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 with separate Dusk to Dawn or timer.

Controls Options

Nomenclature	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	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 AIR as a more cost effective alternative.
PER5 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 ROAM.	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 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
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 over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

FORWARD OPTICS															
Performance Package	LED Count	Drive Current	Distribution Type	AMBPC (Phosphor Converted)						AMBLW (Limited Wavelength)					
				System Watts	Lumens	B	U	G	LPW	System Watts	Lumens	B	U	G	LPW
P1	20	530	T1S	36	3,210	1	0	1	89	29	1,656	1	0	1	57
			T2M		3,207	1	0	1	89		1,654	1	0	1	57
			T2S		3,224	1	0	1	90		1,662	1	0	1	57
			T3M		3,122	1	0	1	87		1,610	1	0	1	56
			T3S		3,216	1	0	1	89		1,658	0	0	1	57
			T4M		3,146	1	0	1	87		1,622	1	0	1	56
			TFTM		3,214	1	0	1	89		1,657	0	0	1	57
			T5VS		3,342	2	0	0	93		1,724	1	0	0	59
			T5S		3,345	2	0	0	93		1,725	1	0	0	59
			T5M		3,337	2	0	1	93		1,721	1	0	0	59
			T5W		3,315	2	0	1	92		1,709	1	0	1	59
			BLC		2,635	0	0	1	73		1,359	0	0	0	47
			LCCO		1,960	0	0	1	54		1,011	0	0	1	35
			RCCO		1,960	0	0	1	54		1,011	0	0	1	35
			P2		20	700	T1S	49	3,834		1	0	1	78	
T2M	3,830	1		0			1		78						
T2S	3,850	1		0			1		79						
T3M	3,728	1		0			1		76						
T3S	3,841	1		0			1		78						
T4M	3,757	1		0			1		77						
TFTM	3,838	1		0			1		78						
T5VS	3,992	2		0			0		81						
T5S	3,995	2		0			0		82						
T5M	3,985	2		0			1		81						
T5W	3,959	3		0			1		81						
BLC	3,147	1		0			1		64						
LCCO	2,341	0		0			1		48						
RCCO	2,341	0	0	1	48										
P3	20	1050	T1S	67	5,255	1	0	1	78						
			T2M		5,249	1	0	2	78						
			T2S		5,276	1	0	1	79						
			T3M		5,110	1	0	2	76						
			T3S		5,263	1	0	1	79						
			T4M		5,149	1	0	2	77						
			TFTM		5,260	1	0	2	79						
			T5VS		5,471	2	0	0	82						
			T5S		5,475	2	0	0	82						
			T5M		5,461	3	0	1	82						
			T5W		5,425	3	0	2	81						
			BLC		4,313	1	0	1	64						
			LCCO		3,208	1	0	2	48						
RCCO	3,208	1	0	2	48										

Performance Data

Lumen Output

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FORWARD OPTICS															
Performance Package	LED Count	Drive Current	Distribution Type	AMBPC (Phosphor Converted)						AMBLW (Limited Wavelength)					
				System Watts	Lumens	B	U	G	LPW	System Watts	Lumens	B	U	G	LPW
P4	40	530	T1S	68	6,451	2	0	2	95	54	2,996	1	0	1	55
			T2M		6,444	2	0	2	95		2,993	1	0	1	55
			T2S		6,477	1	0	1	95		3,009	1	0	1	56
			T3M		6,273	2	0	2	92		2,914	1	0	1	54
			T3S		6,461	1	0	2	95		3,001	1	0	1	56
			T4M		6,321	1	0	2	93		2,936	1	0	1	54
			TFTM		6,457	1	0	2	95		3,000	1	0	1	56
			T5VS		6,716	2	0	0	99		3,120	2	0	0	58
			T5S		6,721	2	0	1	99		3,122	1	0	0	58
			T5M		6,704	3	0	1	99		3,114	2	0	1	58
			T5W		6,660	3	0	2	98		3,094	2	0	1	57
			BLC		5,294	1	0	1	78		2,459	0	0	1	46
			LCCO		3,938	1	0	2	58		1,830	0	0	1	34
			RCCO		3,938	1	0	2	58		1,830	0	0	1	34
			P5		40	700	T1S	89	7,455		2	0	2	84	
T2M	7,447	2		0			2		84						
T2S	7,486	2		0			2		84						
T3M	7,250	2		0			2		81						
T3S	7,468	1		0			2		84						
T4M	7,306	1		0			2		82						
TFTM	7,463	1		0			2		84						
T5VS	7,762	3		0			0		87						
T5S	7,768	2		0			1		87						
T5M	7,749	3		0			2		87						
T5W	7,698	3		0			2		86						
BLC	6,119	1		0			2		69						
RCCO	4,552	1		0			2		51						
P6	40	1050	T1S	127	10,190	2	0	2	80						
			T2M		10,180	2	0	2	80						
			T2S		10,233	2	0	2	81						
			T3M		9,909	2	0	2	78						
			T3S		10,207	2	0	2	80						
			T4M		9,986	2	0	3	79						
			TFTM		10,201	2	0	2	80						
			T5VS		10,609	3	0	1	84						
			T5S		10,618	3	0	1	84						
			T5M		10,591	4	0	2	83						
			T5W		10,522	4	0	3	83						
			BLC		8,364	1	0	2	66						
			RCCO		6,222	1	0	2	49						

Performance Data

Lumen Output

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ROTATED OPTICS															
Performance Package	LED Count	Drive Current	Distribution Type	AMBPC (Phosphor Converted)						AMBLW (Limited Wavelength)					
				System Watts	Lumens	B	U	G	LPW	System Watts	Lumens	B	U	G	LPW
P10	30	530	T1S	53	4,529	2	0	2	85	41	2,270	1	0	1	55
			T2M		4,524	2	0	2	85		2,268	1	0	1	55
			T2S		4,547	2	0	2	86		2,280	1	0	1	56
			T3M		4,404	2	0	2	83		2,208	1	0	1	54
			T3S		4,536	2	0	2	86		2,274	1	0	1	55
			T4M		4,438	3	0	3	84		2,225	2	0	2	54
			TFTM		4,533	3	0	3	86		2,273	2	0	2	55
			T5VS		4,682	2	0	0	88		2,347	1	0	0	57
			T5S		4,729	2	0	0	89		2,371	1	0	0	58
			T5M		4,707	3	0	1	89		2,360	2	0	0	58
			T5W		4,676	3	0	2	88		2,344	2	0	1	57
			BLC		3,717	2	0	2	70		1,863	1	0	1	45
			LCCO		2,765	1	0	1	52		1,386	0	0	1	34
			RCCO		2,765	1	0	1	52		1,386	0	0	1	34
			P11		30	700	T1S	72	5,785		2	0	2	80	
T2M	5,779	3		0			3		80						
T2S	5,809	2		0			2		81						
T3M	5,626	3		0			3		78						
T3S	5,795	3		0			3		80						
T4M	5,669	3		0			3		79						
TFTM	5,791	3		0			3		80						
T5VS	5,981	2		0			0		83						
T5S	6,042	2		0			0		84						
T5M	6,013	3		0			1		84						
T5W	5,974	3		0			2		83						
BLC	4,748	2		0			2		66						
LCCO	3,532	1		0			2		49						
RCCO	3,532	1	0	2	49										
P12	30	1050	T1S	98	7,813	3	0	3	80						
			T2M		7,805	3	0	3	80						
			T2S		7,845	3	0	3	80						
			T3M		7,598	3	0	3	78						
			T3S		7,826	3	0	3	80						
			T4M		7,656	3	0	3	78						
			TFTM		7,821	3	0	3	80						
			T5VS		8,078	3	0	0	82						
			T5S		8,159	3	0	1	83						
			T5M		8,120	3	0	2	83						
			T5W		8,067	3	0	2	82						
			BLC		6,412	3	0	3	65						
			LCCO		4,770	1	0	2	49						
RCCO	4,770	1	0	2	49										

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K or 3000K color temperature only.

BUY AMERICAN ACT

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



COMMERCIAL OUTDOOR

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