

D-Series Size 0 Amber Series

Legacy LED Area Luminaire











Introduction

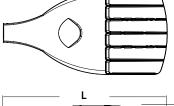
The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric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

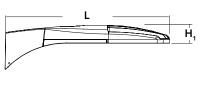
Specifications

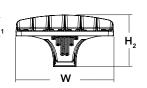
0.95 ft² EPA: 26" Length: (66.0 cm) 13" Width: (33.0 cm) 3" Height,: (7.62 cm) Height,: (17.8 cm)

Weight

(max):







Ordering Information

16 lbs

EXAMPLE: DSX0 LED P4 AMBLW T3M MVOLT SPA DDBXD G1

DSX0 LED				
Series	LEDs	Color temperature	Distribution	Voltage Mounting (required)
DSXO LED	Forward optics P1 P4 P2 P5 P3 P6 Rotated optics P10 ¹ P12 ¹ P11 ¹	AMBLW Limited Wavelength Amber² AMBPC Phosphor Converted Amber	T1S Type I short T5S Type V short 3 T2S Type II short T5M Type V medium 3 T2M Type II medium T5W Type V wide 3 T3S Type III short BLC Backlight control T3M Type III medium LCCO Left corner cutoff T4M Type IV medium RCCO Right corner cutoff TFTM Forward throw medium T5VS Type V very short 3	MVOLT 4.5 120

Control op	tions			Other	options	Finish (req	uired)	Gene	ration (required)
Shipped i NLTAIR2 PIRHN PER PER5 PER7 DMG	nstalled nLight AIR generation 2 enabled ^{8,9} Network, high/low motion/ambient sensor ¹⁰ NEMA twist-lock receptacle only (control ordered separate) ¹¹ Five-pin receptacle only (control ordered separate) ^{11,12} Seven-pin receptacle only (leads exit fixture) (control ordered separate) ^{11,12} 0-10V dimming extend out back of housing for external control (control ordered separate) ¹³	PIR PIRH PIR1FC3V PIRH1FC3V FAO	High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ^{14,15} High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ^{14,15} High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{14,15} High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{14,15} Field adjustable output ¹⁶	HS SF DF L90 R90 DDL BAA	House-side shield ¹⁷ Single fuse (120, 277, 347V) ⁵ Double fuse (208, 240, 480V) ⁵ Left rotated optics ¹ Right rotated optics ¹ Diffused drop lens ¹⁸ Buy America(n) Act Compliant oped separately Bird spikes ¹⁹ External glare shield	DDBXD DBLXD DNAXD DWHXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum 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 House-side shield for P10, P11 and P12 17 DSXOHS 30C U G1 DSX0HS 40C U G1 House-side shield for P5, P6 and P7 17 DSXODDL U G1 Diffused drop lens (polycarbonate) 17 Square and round pole universal mounting bracket adaptor (specify finish) 20 PUMBA DDBXD U G1* Mast arm mounting bracket adaptor (specify

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 ANCI C136.31.

 Must order future 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, PERS, PERZ, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.

 Reference Motion Sensor table on page 5.

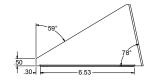
 Reference Controls Options table on page 5.

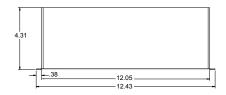
- Reference Motion sensor table on page 5.
 Reference Controls Options table on page 5.
 Not available with other dimming controls options.
 Not available with BLC, LCCO and RCCO distribution.

- 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



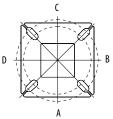




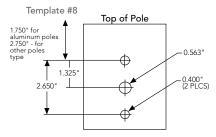
Drilling

KMA8 DDBXD U

HANDHOLE ORIENTATION (from top of pole)







Tenon Mounting Slipfitter **

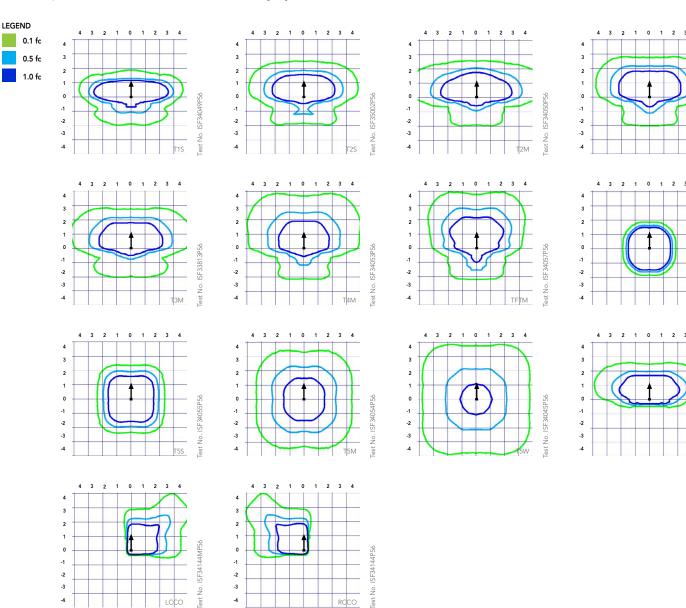
Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @120	3 @ 90	4 @ 90
	SPA/RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
2-3/8"	SPUMBA	AS3-5 190	AS3-5 280	AS4-5 290	AS3-5 320	AS4-5 390	AS4-5 490
	RUPUMBA	AS3-5 190	AS3-5 280		AS3-5 320		
	SPA/RPA	AST25-190	AST25-280	AST25-290	AST25-320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

		-		L	1.	Y	-
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').



-3

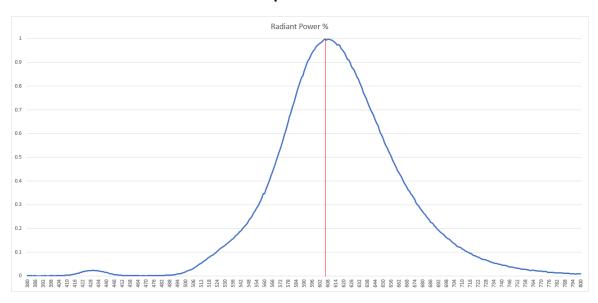
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ISF34052P56

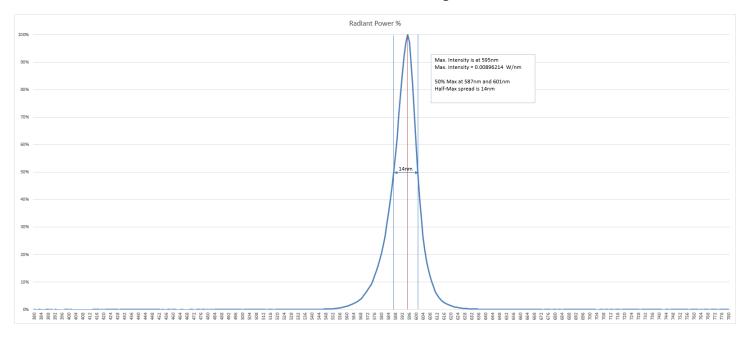
Test No. ISF34056P56

Fest No. ISF33923P56

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 Senso	or Default Setti	ngs		
Option	Dimmed State	High Level (when triggered)	Phototcell 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 se	parate 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 Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.



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									
D. C.	LEDG	Data 6	District T		AMBPC (P	hosphor C	onverted)		
Performance Package	LED Count	Drive Current	Distribution Type	System Watts	Lumens	В	U	G	LPW
			T1S		3,210	1	0	1	89
			T2M		3,207	1	0	1	89
			T2S		3,224	1	0	1	90
			T3M		3,122	1	0	1	87
			T3S		3,216	1	0	1	89
			T4M		3,146	1	0	1	87
D4	20		TFTM	36	3,214	1	0	1	89
P1	20	530	T5VS	36	3,342	2	0	0	93
			T5S		3,345	2	0	0	93
			T5M		3,337	2	0	1	93
			T5W	1	3,315	2	0	1	92
			BLC	1	2,635	0	0	1	73
			LCCO	1	1,960	0	0	1	54
			RCCO		1,960	0	0	1	54
					,				
			T1S		3,834	1	0	1	78
		700	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
	20		TFTM	-	3,838	1	0	1	78
P2			T5VS	49	3,992	2	0	0	81
			TSS		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			0	0	1	48
			RCCO	-	2,341	0	0	1	48
			RCCO		2,341	U	U	'	40
			T1S		5,255	1	0	1	78
			T2M	-	5,249	1	0	2	78
			T2S	-		1	0	1	78
				+	5,276				
			T3M	-	5,110	1	0	2	76
			T3S	-	5,263	1	0	1	79
			T4M	-	5,149	1	0	2	77
P3	20	1050	TFTM	67	5,260	1	0	2	79
			TSVS	-	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
	1		2 4 4 4	1		1 .	1 .		

RCC0

System Watts	Lumens	В	U	G	LPW
	1,656	1	0	1	57
	1,654	1	0	1	57
	1,662	1	0	1	57
	1,610	1	0	1	56
	1,658	0	0	1	57
	1,622	1	0	1	56
20	1,657	0	0	1	57
29	1,724	1	0	0	59
	1,725	1	0	0	59
	1,721	1	0	0	59
	1,709	1	0	1	59
	1,359	0	0	0	47
	1,011	0	0	1	35
	1,011	0	0	1	35



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.

					AMBPC (P	hosphor C	onverted)		
erformance Package	LED Count	Drive Current	Distribution Type	System Watts	Lumens	В	U	G	LPW
			T1S		6,451	2	0	2	95
			T2M		6,444	2	0	2	95
			T2S		6,477	1	0	1	95
			T3M		6,273	2	0	2	92
			T3S		6,461	1	0	2	95
			T4M		6,321	1	0	2	93
P4	40	520	TFTM	60	6,457	1	0	2	95
P4	40	530	T5VS	68	6,716	2	0	0	99
			TSS		6,721	2	0	1	99
			T5M		6,704	3	0	1	99
			T5W		6,660	3	0	2	98
			BLC	1	5,294	1	0	1	78
			LCC0		3,938	1	0	2	58
			RCCO		3,938	1	0	2	58
			'						
			T1S		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	89	7,463	1	0	2	84
P5	40	700	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
			LCCO		4,552	1	0	2	51
			RCCO		4,552	1	0	2	51
					,,,,,,		_		
			T1S		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
P6	40	1050	T5VS	127	10,609	3	0	1	84
			TSS	-	10,618	3	0	1	84
			T5M		10,518	4	0	2	83
			INICI	-	ו לכ,טו	**	U		63

T5W

BLC

LCC0

RCCO

	AMBLW (L	imited Wa	velength)	
System Watts	Lumens	В	U	G	LPW
	2,996	1	0	1	55
	2,993	1	0	1	55
	3,009	1	0	1	56
	2,914	1	0	1	54
	3,001	1	0	1	56
	2,936	1	0	1	54
54	3,000	1	0	1	56
54	3,120	2	0	0	58
	3,122	1	0	0	58
	3,114	2	0	1	58
	3,094	2	0	1	57
	2,459	0	0	1	46
	1,830	0	0	1	34
	1,830	0	0	1	34



10,522

8,364

6,222

4

1

0

0

0

3

2

2

83

66 49

49

Lumen Output

shown, within the tolerances allowed by Lighting Facts.

OTATED OPTICS									
Performance Package	LED Count	Drive Current	Distribution Type	AMBPC (Phosphor Converted)					
				System Watts	Lumens	В	U	G	LPW
		530	T1S		4,529	2	0	2	85
			T2M		4,524	2	0	2	85
			T2S		4,547	2	0	2	86
			T3M		4,404	2	0	2	83
			T3S	53	4,536	2	0	2	86
			T4M		4,438	3	0	3	84
P10	30		TFTM		4,533	3	0	3	86
FIU			T5VS		4,682	2	0	0	88
			T5S		4,729	2	0	0	89
			T5M		4,707	3	0	1	89
			T5W		4,676	3	0	2	88
			BLC		3,717	2	0	2	70
			LCC0		2,765	1	0	1	52
			RCCO		2,765	1	0	1	52
			T1S	72	5,785	2	0	2	80
			T2M		5,779	3	0	3	80
	30	700	T2S		5,809	2	0	2	81
			T3M		5,626	3	0	3	78
P11			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
								_	
			T1S	-	7,813	3	0	3	80
			T2M	-	7,805	3	0	3	80
			T2S	-	7,845	3	0	3	80
			ТЗМ	-	7,598	3	0	3	78
			TOC	1	7 0 2 6	2	Λ .	2	00

			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
			LCC0		3,532	1	0	2	49
			RCCO		3,532	1	0	2	49
			T1S		7,813	3	0	3	80
			T2M		7,805	3	0	3	80
			T2S	98	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
P12	30	1050	TFTM		7,821	3	0	3	80
PIZ	30	30 1030	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

AMBLW (Limited Wavelength)						
System Watts	Lumens	В	U	G	LPW	
	2,270	1	0	1	55	
	2,268	1	0	1	55	
	2,280	1	0	1	56	
	2,208	1	0	1	54	
	2,274	1	0	1	55	
	2,225	2	0	2	54	
	2,273	2	0	2	55	
41	2,347	1	0	0	57	
	2,371	1	0	0	58	
	2,360	2	0	0	58	
	2,344	2	0	1	57	
	1,863	1	0	1	45	
	1,386	0	0	1	34	
	1,386	0	0	1	34	

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 programing 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 luminaries 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 Eclypse. 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 AERISTM 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.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

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.

