Midwest Orthopaedics at RushMunster Ambulatory Building

Site Luminaire Booklet

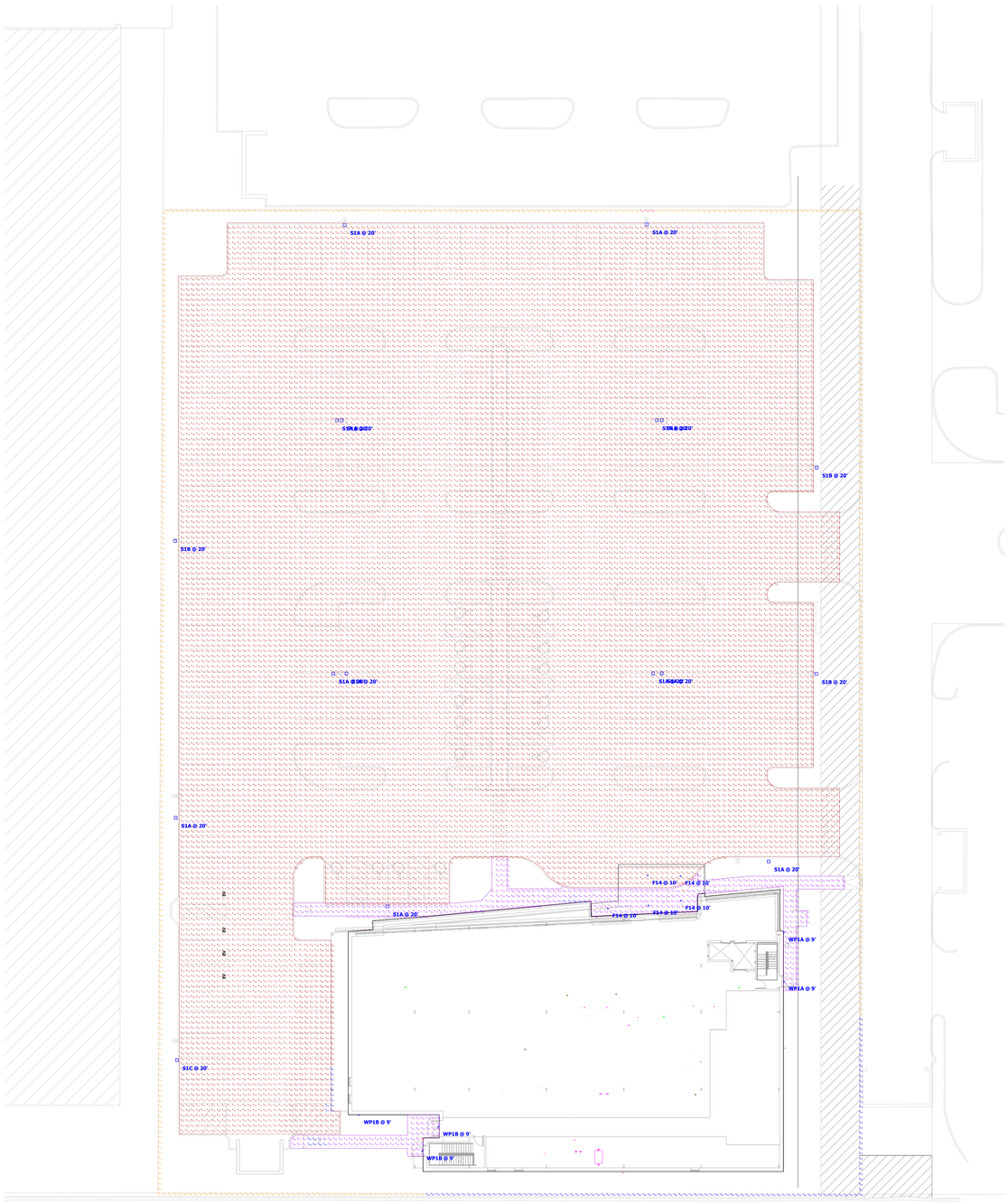
EXHIBIT C

TOWN OF MUNSTER SITE LIGHTING ORDINANCES ARTICLE 26, SECTION 26-6.405Q:

1. ILLUMINATION OF PARKING AREAS, PARKING LOTS, PARKING STRUCTURES, AND ALL PEDESTRIAN WAYS SHALL BE PROVIDED AT AN AVERAGE OF 1.0-2.5 FOOT-CANDLES AND A MINIMUM OF 0.4 FOOT-CANDLES.

GENERAL NOTES:

1. POLE HEIGHT OF ALL NEW POLE MOUNTED LUMINAIRES SHALL BE 20'-0".
2. COLOR TEMPERATURE OF NEW EXTERIOR LUMINAIRES SHALL BE 3000K.



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Pedestrian Walkway	+	2.3 fc	9.6 fc	0.4 fc	24.0:1	5.8:1
Property Line	+	0.6 fc	1.9 fc	0.0 fc	N/A	N/A
Parking Area	+	2.2 fc	8.6 fc	0.4 fc	21.5:1	5.5:1
Pedestrian Walkway	+	1.8 fc	3.4 fc	0.6 fc	5.7:1	3.0:1

Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
	S1C		1	Lithonia Lighting	DSX1 LED P3 30K 70CRI T4M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 4 Medium	1	13403	0.81	102.17	Max: 10722cd
	S1B		3	Lithonia Lighting	DSX1 LED P3 30K 70CRI T2M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 2 Medium	1	13055	0.81	102.17	Max: 11887cd
	S1A		13	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 3 Medium	1	13206	0.81	102.17	Max: 11053cd
	F14		5	Aculux	AX4SQ D 12LM 30K 80CRI WD 4SQD CD	ACULUX AX4 SQUARE DOWNLIGHT, 1200 LUMEN, BATWING BEAM, CLEAR DIFFUSE REFLECTOR	1	989	0.81	9.5	Max: 880cd
	WP1A		2	Lithonia Lighting	WDGE1 LED P0 30K 80CRI VW	WDGE1 LED WITH P0 - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT WIDE OPTIC	1	720	0.81	6.7947	Max: 542cd
	WP1B		3	Lithonia Lighting	WDGE1 LED P0 30K 80CRI VF	WDGE1 LED WITH P0 - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT FORWARD OPTIC	1	718	0.81	6.7947	Max: 500cd

PRELIMINARY
NOT FOR CONSTRUCTION

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0 1 2 3
REF. SCALE IN INCHES

PROJECT #240074M6.00

Midwest Orthopaedic at Rush
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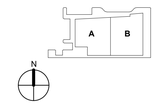
PLAN COMMISSION SUBMISSION 04/15/2025

Rev.	Description	Date



KEY PLAN

Drawing Title:

LEVEL 01 PLAN - SITE PHOTOMETRICS

Project No.: 005086.30

E100

4/4/2025 8:47:14 AM

D-Series Size 1
LED Area Luminaire

Catalog Number

Notes

Type S1A,S1B,S1C

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

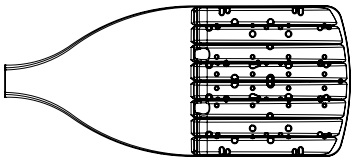
Introduction

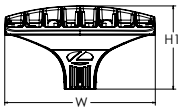
The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

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.

Specifications

EPA:	0.69 ft² (0.06 m²)
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)





Design Select options indicated by this color background.

design select

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)		AFR Automotive front row	T5M Type V medium	MVOLT (120V-277V)[4]	**Shipped included**
	P1 P6	30K 3000K	70CRI	T1S Type I short	T5LG Type V low glare	HVOLT (347V-480V)[5,6]	SPA Square pole mounting (#8 drilling)
	P2 P7	40K 4000K	70CRI	T2M Type II medium	T5W Type V wide	XVOLT (277V - 480V)[7,8]	RPA Round pole mounting (#8 drilling)
	P3 P8	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control[3]	120[16,26]	SPA5 Square pole mounting #5 drilling[9]
	P4 P9	(this section 80CRI only, extended lead times apply)		T3LG Type III low glare[3]	BLC4 Type IV backlight control[3]	208[16,26]	RPA5 Round pole mounting #5 drilling[9]
	P5	27K 2700K	80CRI	T4M Type IV medium	LCCO Left corner cutoff[3]	240[16,26]	SPA8N Square narrow pole mounting #8 drilling
	Rotated optics	30K 3000K	80CRI	T4LG Type IV low glare[3]	RCCO Right corner cutoff[3]	277[16,26]	WBA Wall bracket[10]
	P10[1] P12[1]	35K 3500K	80CRI	TFTM Forward throw medium		347[16,26]	MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
	P11[1] P13[1]	40K 4000K	80CRI			480[16,26]	
		50K 5000K	80CRI				

Control options

Shipped installed

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]
PIR	High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,20,21]
PER	NEMA twist-lock receptacle only (controls ordered separate)[14]
PER5	Five-pin receptacle only (controls ordered separate)[14,21]
PER7	Seven-pin receptacle only (controls ordered separate)[14,21]
FAO	Field adjustable output[15,21]
BL30	Bi-level switched dimming, 30%[16,21]
BL50	Bi-level switched dimming, 50%[16,21]
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]
DS	Dual switching[18,19,21]

Other options

Shipped installed

SPD20KV	20KV surge protection
HS	Houseside shield (black finish standard)[22]
L90	Left rotated optics[1]
R90	Right rotated optics[1]
CCE	Coastal Construction[23]
HA	50°C ambient operation[24]
BAA	Buy America(n) Act and/or Build America Buy America Qualified
SF	Single fuse (120, 277, 347V)[26]
DF	Double fuse (208, 240, 480V)[26]

Shipped separately

EGSR	External Glare Shield (reversible, field install required, matches housing finish)
BSDB	Bird Spikes (field install required)

Finish *(required)*

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

Ordering Information

Accessories

Ordered and shipped separately.

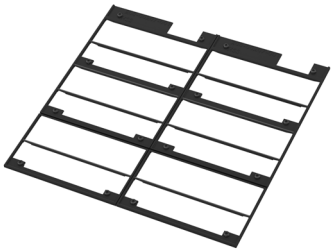
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [25]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [25]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [25]
DSHORT SBK	Shorting cap [25]
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES

1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 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, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8 XVOLT not available in packages P1 or P10. XVOLT not available with fusing (SF or DF).
9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this link
12 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. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
14 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.
15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
16 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.
17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
19 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.
20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
21 Reference Controls Options table on page 4.
22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
23 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
24 Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
26 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

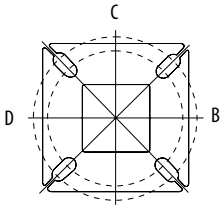
External Glare Shield (EGSR)

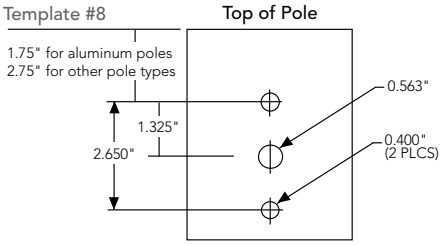


House Side Shield (HS)

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').

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	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**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-80-08 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
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	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

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

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	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	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	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
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	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

	70 CRI		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.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Phototcell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

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 (not available on DSX0)	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. 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 rSBG	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 over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity 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	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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 configurations shown within the tolerances described within LM-79.
Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
P2	68W	30	700	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
				T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	147
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	131
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	149
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	136
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	150
				T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	153
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	156
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	154
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	107
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	110
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
P3	102W	30	1050	T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147

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 configurations shown within the tolerances described within LM-79.
Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
				T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129
				T3M	16,917	3	0	4	122	17,630	3	0	4	128	17,974	3	0	4	130
				T3LG	15,111	2	0	2	109	15,749	2	0	2	114	16,055	2	0	2	116
				T4M	17,169	3	0	5	124	17,893	3	0	5	130	18,242	3	0	5	132
				T4LG	15,615	2	0	2	113	16,274	2	0	2	118	16,591	2	0	2	120
				TFTM	17,288	2	0	4	125	18,017	2	0	5	130	18,368	3	0	5	133
				T5M	17,664	5	0	3	128	18,410	5	0	3	133	18,768	5	0	3	136
				T5W	17,951	5	0	3	130	18,708	5	0	3	135	19,073	5	0	3	138
				T5LG	17,716	4	0	2	128	18,463	4	0	2	134	18,823	4	0	2	136
				BLC3	12,305	0	0	3	89	12,824	0	0	3	93	13,074	0	0	3	95
				BLC4	12,709	0	0	4	92	13,245	0	0	4	96	13,503	0	0	4	98
				RCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				LCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
P6	165W	40	1250	T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135

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 configurations shown within the tolerances described within LM-79.
Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
P8	216W	60	1100	T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
				T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

Performance Data

Lumen Output

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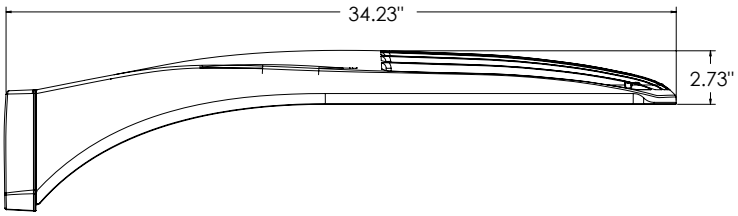
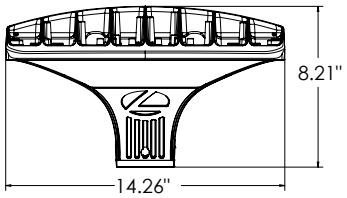
Contact factory for performance data on any configurations not shown here.

Rotated Optics

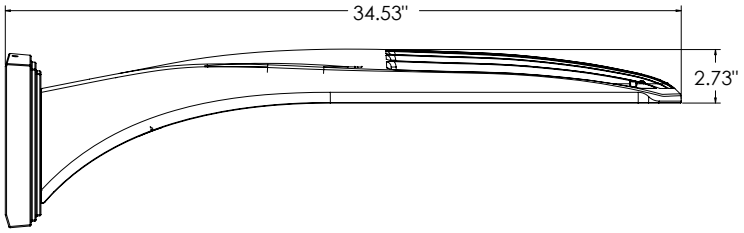
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
				T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
				T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
				T3LG	16,270	3	0	3	121	16,957	3	0	3	126	17,287	4	0	4	128
				T4M	18,483	4	0	4	137	19,263	5	0	5	143	19,638	5	0	5	146
				T4LG	16,810	3	0	3	125	17,519	3	0	3	130	17,861	3	0	3	132
				TFTM	18,614	4	0	4	138	19,399	4	0	4	144	19,777	5	0	5	147
				T5M	19,017	5	0	3	141	19,819	5	0	3	147	20,205	5	0	3	150
				T5W	19,325	5	0	3	143	20,140	5	0	3	149	20,533	5	0	3	152
				T5LG	19,072	4	0	2	141	19,876	4	0	2	147	20,264	4	0	2	150
				BLC3	13,247	4	0	4	98	13,806	4	0	4	102	14,075	4	0	4	104
				BLC4	13,682	4	0	4	101	14,259	4	0	4	106	14,537	4	0	4	108
				RCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				LCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				AFR	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
P12	206W	60	1050	T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
				T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
				T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
				T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
				T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
				T3LG	28,826	4	0	4	105	30,042	4	0	4	109	30,628	4	0	4	111
				T4M	32,746	5	0	5	119	34,128	5	0	5	124	34,793	5	0	5	126
				T4LG	29,782	4	0	4	108	31,039	4	0	4	113	31,644	5	0	4	115
				TFTM	32,978	5	0	5	120	34,369	5	0	5	125	35,039	5	0	5	127
				T5M	33,692	5	0	4	122	35,113	5	0	4	127	35,797	5	0	4	130
				T5W	34,238	5	0	4	124	35,682	5	0	4	129	36,378	5	0	4	132
				T5LG	33,789	5	0	3	122	35,215	5	0	3	128	35,901	5	0	3	130
				BLC3	23,471	5	0	5	85	24,461	5	0	5	89	24,937	5	0	5	90
				BLC4	24,240	5	0	5	88	25,262	5	0	5	92	25,755	5	0	5	93
				RCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				LCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				AFR	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133

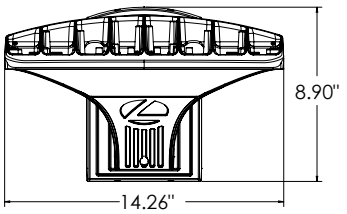
Dimensions



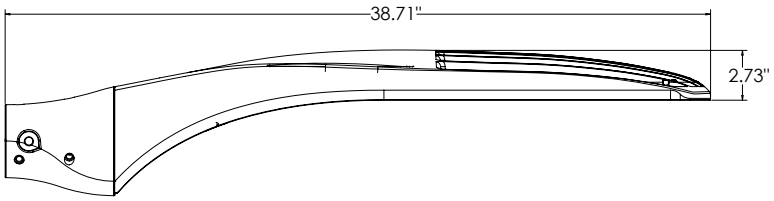


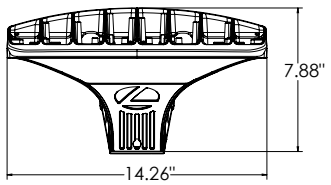
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs





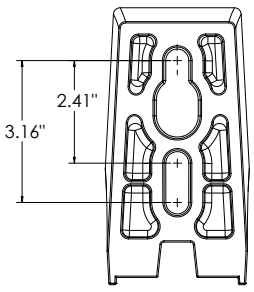
DSX1 with WBA mount
Weight: 38 lbs



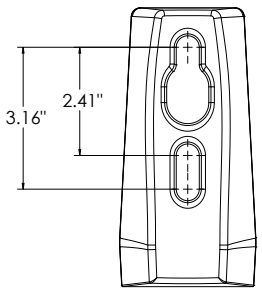


DSX1 with MA mount
Weight: 39 lbs

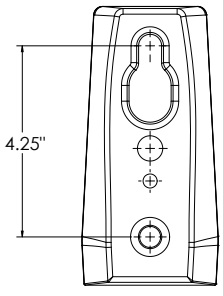
SPA (STANDARD ARM)



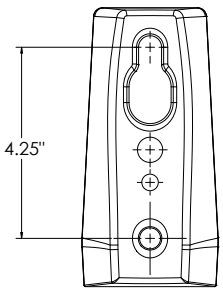
RPA



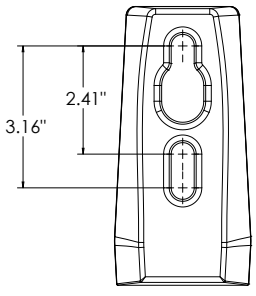
SPA5



RPA5



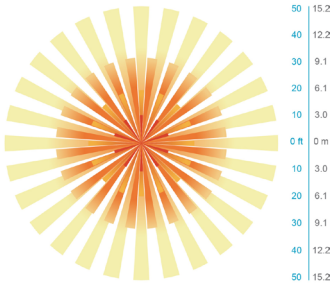
SPA8N



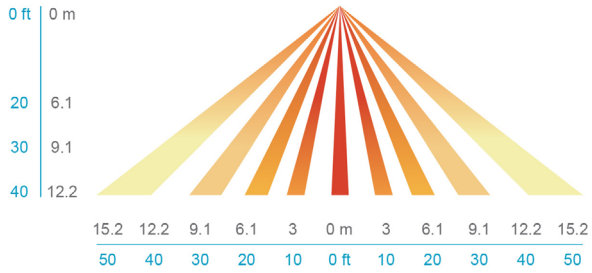
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



Top



Side

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

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 drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft^2) 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.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 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 configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 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 DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 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

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40ºC minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

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

GOVERNMENT PROCUREMENT

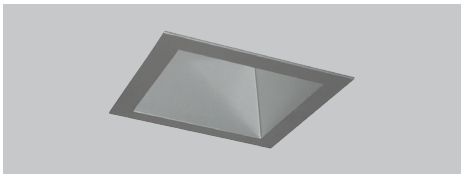
BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: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

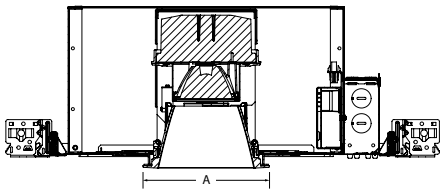
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

TRIM STYLES



Reflector

Bevel



A Dimension:
Self Flanged: 5.7"
Flangeless: 4.9"

FEATURES

SPOT ON! OPTICS

- 45° Visual cutoff to source and source image
- Field Interchangeable TIR Optics in 11 distributions including a Wide Batwing distribution for general illumination
- Accommodates up to 2 beam control lenses or filters

TRU-LINE™ PRECISION INSTALLATION

- Patented aperture translation featuring +/- ½" translation and +/- 45° aperture rotation ensures perfect fixture to fixture alignment (US Patent 8,277,090)
- Robust Pro-VI™ bar hangers provide robust, non-binding action. (US Patent 8,038,113)

EXCEPTIONAL PERFORMANCE FROM 4-INCH APERTURE

- Up to 3352 lumens delivered!
- Exceptionally consistent color with < 2SDCM for Static White & Tunable White; <1SDCM for WarmDim
- Excellent color rendition with 95+ CRI | 90+ R9 Available
- WarmDim® option mimics halogen dimming (3000K-1800K)
- Tunable White CCT range of 5000K –2700K

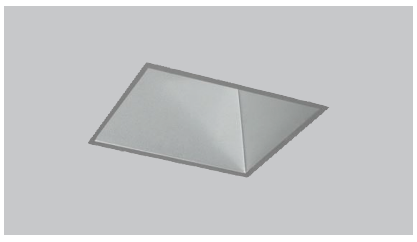
PERFORMANCE

LUMEN PACKAGE	WATTS IN	DELIVERED LUMENS	EFFICACY (LPW)
Static White*			
12LM	9	1307	145
17LM	13	1676	128
22LM	19	2280	120
27LM	25	2816	112
32LM	33	3352	101
WarmDim®			
08LM	16	745	47
12LM	26	1204	46
15LM	29	1470	51
17LM	33	1630	49
Tunable White			
12LM	19	1259	66
17LM	28	1845	66
22LM	38	2353	62

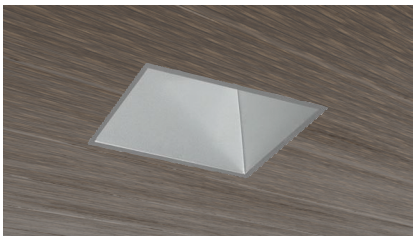
*Performance with 4SQD trim at 30K | 80CRI (Static White), 30K | 90CRI (WarmDim) & 50K | 90CRI (Tunable White)
Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25°C

FLANGE STYLES

Self-Flanged



Flangeless (Gypsum)



Flangeless (Wood | Stone | Tile)

ORDERING INFORMATION

EXAMPLE: AX4SQ D 27LM 30K 95CRI 24D FPC 120 ICAT 4SQDBV BD WHSF

Housing Style

AX4SQ D
New Construction Fixed Downlight

Lumens

Static White

12LM	1200 lumens
17LM	1700 lumens
22LM	2200 lumens
27LM	2700 lumens
32LM [1]	3200 lumens

WarmDim®

08LM	800 lumens
12LM	1200 lumens
15LM	1500 lumens
17LM	1700 lumens

Tunable White

12LM	1200 lumens
17LM	1700 lumens
22LM	2200 lumens

CCT

27K	2700K
30K	3000K
35K [2]	3500K
40K [2]	4000K

WDIM HALR
3000K - 1800K

TUWH
5000K - 2700K

CRI

80CRI
90CRI
95CRI

Beam

12D	12° beam
20D	20° beam
24D	24° beam
30D	30° beam
35D	35° beam
40D	40° beam
45D	45° beam
50D	50° beam
55D	55° beam
50D20D	50°x 20°
WD	Wide (1.1 S/MH)

10D [3]	10° beam
15D [3]	15° beam
20D	20° beam
24D	24° beam
35D	35° beam
45D	45° beam
55D	55° beam
50D20D	50°x 20°
WD	Wide (1.1 S/MH)

15D	15° beam
20D	20° beam
24D	24° beam
35D	35° beam
45D	45° beam
55D	55° beam
50D20D	50°x 20°
WD	Wide (1.1 S/MH)

Driver

GZ1	0-10V | 1% min
EZ1	0-10V eldoLED | linear 1% min
EZB	0-10V eldoLED | log <1% min
EDXB	eldoLED DMX | square <1% min
EDAB	eldoLED DALI 6 | log <1% min
FPC	Phase Cut Dimming | 1% min
ECOD	Lutron EcoSystem | 1% min

GZ1	0-10V | 1% min
FPC	Phase Cut Dimming | 1% min

GZ1	0-10V | 1% min
EZ1	eldoLED 0-10V | linear 1% min
EZB	eldoLED 0-10V | log <1% min
NLT [6]	nLight nTune interface
EDAB	eldoLED DALI 6 | log <1% min
EDABT8	eldoLED DALI 8 | log <1% min

Voltage [4]

120
277
MVOLT
(120-277)

Ratings

(blank)	Non-ICAT
CP [5]	Chicago Plenum
ICAT [5]	IC Rated, Air-tight

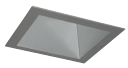
Options

NLIGHT [6]	nLight Dimming pack controls (Static White and WarmDim only)
E6WT20R [7]	Emergency 6W battery pack with remote test switch, T20 compliant

Trim

Downlight Reflector

4SQD Deep Downlight Cone



Bevel

4SQDBV BD Downlight Bevel

Reflector Finish

W	White Paint
CD	Clear Diffuse
BD	Black Diffuse
WTD	Wheat Diffuse

Flange Style

Flanged

SF	Self Flanged
WHSF	Self Flanged, White Painted Flange (not available with W finish)

Flangeless [8]

FM	Flangeless

Bevel Finish & Flange Style

Flanged

WHSF	White, Flanged
BLSF	Black, Flanged

Flangeless [8]

WHFM	White, Flangeless
BLFM	Black, Flangeless

Trim Lens | Environment

(blank)	Open | Damp Location
WET	Solite | Wet Location

(blank)	Open | Damp
WET	Solite | Wet Location

Ceiling Installation

Flanged

(blank)	Ceiling Thickness < 0.875"
CTA4SQ/125	Ceiling Thickness 0.875" - 1.25"
CTA4SQ/163	Ceiling Thickness 1.25" - 1.625"
CTA4SQ/200	Ceiling Thickness 1.625" - 2"

Flangeless (Gypsum)

FMA4SQ/087	Ceiling Thickness < 0.875"
FMA4SQ/125	Ceiling Thickness 0.875" - 1.25"
FMA4SQ/163	Ceiling Thickness 1.25" - 1.625"
FMA4SQ/200	Ceiling Thickness 1.625" - 2"

Flangeless (Wood | Stone | Tile) [9]

SFM4SQ/087 (B,W)	Ceiling Thickness < 0.875"
SFM4SQ/125 (B,W)	Ceiling Thickness 0.875" - 1.25"
SFM4SQ/163 (B,W)	Ceiling Thickness 1.25" - 1.625"

REFLECTOR FINISHES


White Paint


Clear Diffuse


Black Diffuse


Wheat Diffuse

BEVEL FINISHES


White Paint


Black Paint

ORDERING NOTES

1. 32LM not available with ICAT and CP.
2. 35K available in 80CRI and 90CRI only. 40K available in 80CRI only. Contact factory for other CCT/CRI combinations.
3. For WDIM, 10D only available with 08LM and 12LM; 15D only available with 15LM and 17LM.
4. MVOLT standard on GZ1, EZ1, EZB, ECOD, EDXB, EDAB, EDABT8, NLT (unless NLIGHT). Must be 120 for FPC.
5. CP or ICAT not available with 17LM WDIM or 22LM TUWH
6. Must specify 120 or 277 volts for NLIGHT; MVOLT for NLT. NLIGHT only available with EZ1, EZB (for static white) or GZ1 (for warmDim). NLT not available with CP.
7. E6WT20R not available with WDIM, TUWH, EDXB, CP, ICAT, or NLIGHT.
8. Must specify FMA4SQ or SFM4SQ option.
9. Specify finish: B = Black, W = White.

ACCESSORIES

Beam Control Lenses & Filters

DIFF 300	Diffuse Spread lens
SOLITE 300	Solite Uniformity Lens
PRISM 300	Prismatic Lens
LSPREAD 300	Linear Spread Lens
HCLBL 300	Hexcell Louver
UVF 300	UV Filter Lens
DCCF 300 HAL4250	Daylight Blue Correction

Replacement Optics

Static White Optics

4AXOPT/12D	12° Beam
4AXOPT/20D	20° Beam
4AXOPT/24D	24° Beam
4AXOPT/30D	30° Beam
4AXOPT/35D	35° Beam
4AXOPT/40D	40° Beam
4AXOPT/45D	45° Beam
4AXOPT/50D	50° Beam
4AXOPT/55D	55° Beam
4AXOPT/50D20D	50°x20° Beam
4AXOPT/WD	Wide (1.1 S/MH)

WarmDim Optics

4AXWDOPT/10D	10° Beam
4AXWDOPT/15D	15° Beam
4AXWDOPT/20D	20° Beam
4AXWDOPT/24D	24° Beam
4AXWDOPT/35D	35° Beam
4AXWDOPT/45D	45° Beam
4AXWDOPT/55D	55° Beam
4AXWDOPT/50D20D	50°x20° Beam
4AXWDOPT/WD	Wide (1.1 S/MH)

Tunable White Optics

4AXTWOPT/15D	15° Beam
4AXTWOPT/20D	20° Beam
4AXTWOPT/24D	24° Beam
4AXTWOPT/35D	35° Beam
4AXTWOPT/45D	45° Beam
4AXTWOPT/55D	55° Beam
4AXTWOPT/50D20D	50°x20° Beam
4AXTWOPT/WD	Wide (1.1 S/MH)

Optional Installation Accessories

Bar Hangers

HB1	Juno Real Nail® 3 Bar Hangers
HB26	26" C-Channel Bar Hangers
HB50	50" C-Channel Bar Hangers
LB27	27" Linear Bar Hangers

Note: Fixture supplied with Pro-VI™ Bar Hangers

Emergency Inverter

IIS 35 HE	Up to 35W Remote Mount Micro Inverter (30LM Excluded)

PRODUCT SPECIFICATIONS

FIELD INTERCHANGEABLE LED LIGHT ENGINE

- Future proof and easy to maintain-serviceable from below the ceiling

Static White:

- <2SDCMBinning
- 2700K|3000K|3500K|4000K CCT
- 80+CRI available for all CCTs
- 90+CRI available for 2700K,3000K,3500K
- 95+ CRI (>90 R9) available for 2700K, 3000K

WarmDim:

- Proprietary WarmDim technology mimics halogen,with CCT shifting from 3000K to 1800K when dimmed.
- <1SDCM Binning, 90+CRI

Tunable White:

- Tunable CCT range 5000K to 2700K
- <2 SDCM Binning, 90+ CRI

SPOT-ON! PRECISION OPTICS

- 45° Visual cutoff to source and source image
- Field Interchangeable TIR Optics delivering high centerbeam downlighting in 12° FWHM to 55° FWHM.
- Available with a wide batwing distribution for general illumination with up to 1.1 S/MH ratio.
- Patented self-adjusting optic holder accommodates up to 2 beam control lenses or filters (US Patent 8,950,911).
- UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60°, per CIE 117-1996 Discomfort Glare in Interior Lighting. UGR FAQs

HIGH QUALITY TRIMS

- Available with die cast aluminum bevels and reflectors.
- Available in Self Flanged and Flangeless
- Must Specify FMA4SQ for gypsum flangeless installation
- Must specify SFM4SQ for wood, stone, tile flangeless installation

FIELD REPLACEABLE DRIVER

- Accommodates 120-277V input and multiple control protocols
- Dims without perceived flicker to <1% depending on driver specified
- Field replaceable without tools from below the ceiling
- >0.9 Power Factor

BUY AMERICAN ACT

- This product 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/resources/buy-american for additional information.

WARRANTY & RATED LIFE

- LED is rated for >50,000 hours at 70% lumen maintenance
- 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

EMERGENCY BATTERY

- Provides a minimum of 700 lumens (4SQD, 3000K, 80CRI) for minimum duration of 90 minutes.
- Accessible below ceiling for simple service; Self-Testing
- Supplied with Class-2 plenum rated remote test switch
- CEC T20 Compliant

NEW CONSTRUCTION MOUNTING

- Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system offering compatible with wood stud and T-bar
- All fixtures also feature vertically adjustable mounting brackets (butterfly brackets)
- Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- ½" translation and +/- 45° aperture rotation aids fixture alignment after installation, prior to finishing the ceiling.

JUNCTION BOX

- Rated for (4) No. 12 AWG 90°C through branch circuit conductors.
- Includes (6) ½", (1) ¾", (4) Non-metallic sheathed cable knock-outs.
- Push-in electrical connectors for field connections.

CODES & LABELS

- UL & cUL listed for through branch wiring, damp location
- Meets energy code Air Leakage requirements per ASTM E283
- ENERGY STAR® certified with select trims and housings
- Can be used to comply with Title 24, Part 6 with select trims and housings. Reference T24 JA-8 database for list of compliant housings and trims.
- ICAT Static White housings are rated for direct contact with insulation, including open and closed cell spray foam* with a maximum R-value of 7.2R/in. This allows use in ceiling cavities insulated up to R60.
- ICAT WarmDim and Tunable White housings are rated for direct contact with insulation, including open cell spray foam* with a maximum R-value of 3.8R/in. They are not suitable for use with closed cell spray foam. *Note: Options: "12LM WDIM", "ECOD", "EDXB", "NLT" & "NLIGHT" are excluded and not suitable for use with spray foam insulation.
- Union made

CEILING THICKNESS

- Accommodates ½" to 2" ceiling thickness

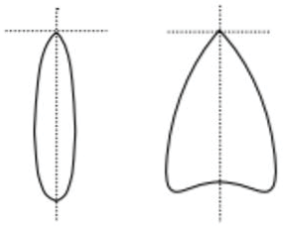
A+ CAPABLE LUMINAIRE

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning, when used with Acuity Brands controls products.

- All configurations of this luminaire are calibrated and tested to meet the Acuity Brand's specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

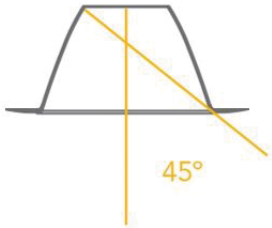
To learn more about Acuity A+ standards, specifications and testing, visit www.acuitybrands.com/aplus.

Spot On! Precision Optics



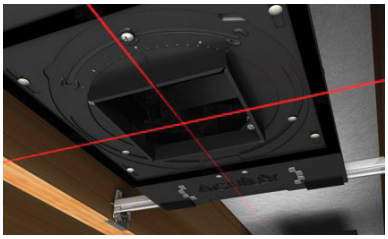
Smooth striation-free beam with high centerbeam or wide batwing distribution for general illumination

Exceptional Brightness and Glare Control



45-degree visual cutoff to source and source image

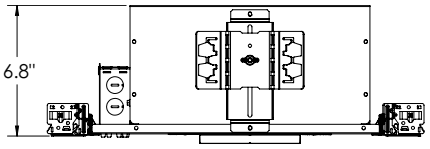
Tru-Line™ Precision Installation

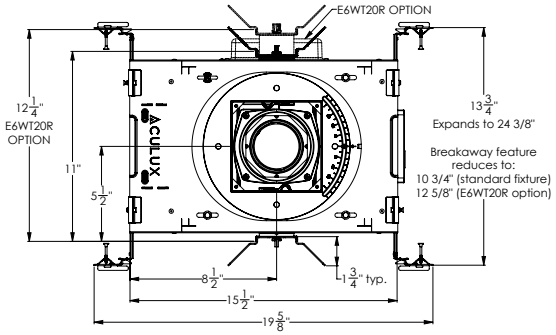


Pro-VI™ bar hangers, coupled with +/-1/2" aperture translation and +/-45° aperture rotation makes perfect installation achievable

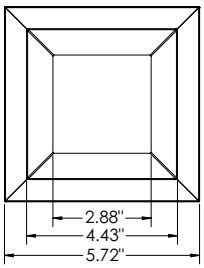
DIMENSIONS

New Construction Downlight (AX4SQ D)
ICAT/Non-ICAT: 12LM | 17LM | 22LM | 27LM
Non-ICAT: 32LM
Ceiling Cutout: 5-5/16" x 5-5/16" (refer to installation instructions for flangeless ceiling cutout)

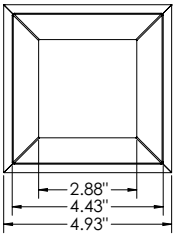




Reflector Trim (4SQD)

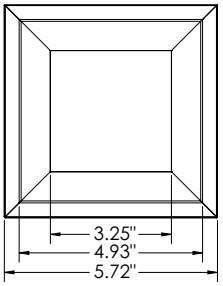


Flanged

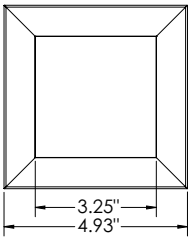


Flangeless

Bevel Trim (4SQDBV)



Flanged



Flangeless

ELECTRICAL SPECIFICATIONS

Static White

LUMEN PACKAGE	12LM		17LM		22LM		27LM		32LM	
Voltage	120	277	120	277	120	277	120	277	120	277
Input Watts	9.5	10.0	13.7	14.7	19.5	20.4	25.8	26.4	33.4	33.6
Input Current	0.08	0.04	0.11	0.06	0.16	0.08	0.22	0.10	0.28	0.13
Frequency	50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz	
Power Factor	0.9 MIN.		0.9 MIN.		0.9 MIN.		0.9 MIN.		0.9 MIN.	

WarmDim

08LM		12LM		15LM		17LM	
120	277	120	277	120	277	120	277
16.1	16.5	25.6	25.9	28.9	29.0	32.8	32.9
0.14	0.06	0.21	0.10	0.24	0.11	0.27	0.12
50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz	
0.9 MIN.		0.9 MIN.		0.9 MIN.		0.9 MIN.	

Tunable White

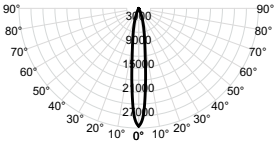
12LM		15LM		22LM	
120	277	120	277	120	277
18.2	19.5	27.2	28.0	36.9	37.5
0.15	0.08	0.23	0.11	0.31	0.14
50/60 Hz		50/60 Hz		50/60 Hz	
0.9 MIN.		0.9 MIN.		0.9 MIN.	

PHOTOMETRICS - 4SQD

Tested in accordance to IESNA LM79

12 Degree Beam

AX4SQ D 32LM 30K 80CRI 12D EZ1 MVOLT 4SQD CD Input Watts: 33.4, Delivered Lumens: 3449, LPW: 103.3, S/MH: 0.23, Test No: 20-422-01P158



CP Summary

0°	
0°	29,541
5°	19,455
15°	4,713
25°	650
35°	93
45°	39
55°	19
65°	9
75°	3
85°	1
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	3,304	96%
0° - 40°	3,391	98%
0° - 60°	3,437	100%
0° - 90°	3,449	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
0	122	122	122	120	120	120	114	114	114
1	117	115	113	114	113	111	110	109	108
2	111	109	106	110	107	105	107	104	103
3	107	104	101	106	103	100	103	101	99
4	103	100	97	102	99	96	100	97	95
5	100	96	93	99	96	93	98	94	92
6	97	93	90	96	93	90	95	92	89
7	94	90	88	94	90	87	93	89	87
8	92	88	85	91	88	85	91	87	85
9	90	86	83	89	86	83	88	85	83
10	88	84	81	87	84	81	87	83	81

Cone of Light

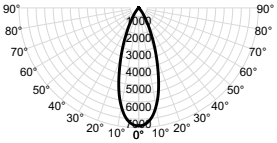
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	820.6	1.4
8.0	461.6	1.9
10.0	295.4	2.4
12.0	205.1	2.8
14.0	150.7	3.3

Luminance (cd/sq.m)

	Average Luminance
45°	4,638
55°	2,696
65°	1,703
75°	1,064
85°	612

35 Degree Beam

AX4SQ D 32LM 30K 80CRI 35D EZ1 MVOLT 4SQD CD Input Watts: 33.4, Delivered Lumens: 3149, LPW: 94.3, S/MH: 0.60, Test No: 20-422-05P158



CP Summary

0°	
0°	6,900
5°	6,666
15°	4,502
25°	1,790
35°	490
45°	51
55°	26
65°	12
75°	5
85°	1
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	2,681	85%
0° - 40°	3,030	96%
0° - 60°	3,132	99%
0° - 90°	3,149	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
0	120	120	120	117	117	117	112	112	112
1	113	110	108	110	108	107	106	105	103
2	106	102	99	104	101	98	101	98	96
3	100	96	92	99	95	92	96	93	90
4	95	90	86	94	89	86	92	88	85
5	90	85	81	89	85	81	88	83	80
6	86	81	77	85	80	77	84	79	76
7	82	77	73	81	76	73	80	76	73
8	78	73	70	78	73	69	77	72	69
9	75	70	66	75	70	66	74	69	66
10	72	67	64	72	67	64	71	66	63

Cone of Light

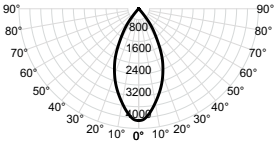
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	191.7	4.0
8.0	107.8	5.3
10.0	69.0	6.7
12.0	47.9	8.0
14.0	35.2	9.3

Luminance (cd/sq.m)

	Average Luminance
45°	5,932
55°	3,827
65°	2,397
75°	1,511
85°	1,020

50 Degree Beam

AX4SQ D 32LM 30K 80CRI 50D EZ1 MVOLT 4SQD CD Input Watts: 33.4, Delivered Lumens: 2897, LPW: 86.7, S/MH: 0.75, Test No: 20-422-08P158



CP Summary

0°	
0°	4,113
5°	3,928
15°	3,072
25°	2,058
35°	872
45°	68
55°	36
65°	17
75°	7
85°	2
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	2,139	74%
0° - 40°	2,720	94%
0° - 60°	2,872	99%
0° - 90°	2,897	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
0	120	120	120	117	117	117	112	112	112
1	111	109	107	109	107	105	105	103	102
2	104	100	97	102	99	96	99	96	93
3	97	92	88	96	91	88	93	89	86
4	91	86	82	90	85	81	88	83	80
5	86	80	76	85	79	75	83	78	75
6	80	75	70	80	74	70	78	73	70
7	76	70	66	75	70	66	74	69	65
8	72	66	62	71	66	62	70	65	62
9	68	62	58	68	62	58	67	62	58
10	65	59	55	64	59	55	63	58	55

Cone of Light

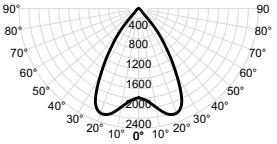
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	114.3	5.6
8.0	64.3	7.5
10.0	41.1	9.3
12.0	28.6	11.2
14.0	21.0	13.1

Luminance (cd/sq.m)

	Average Luminance
45°	8,018
55°	5,144
65°	3,407
75°	2,266
85°	1,529

WD Beam

AX4SQ D 32LM 30K 80CRI WD EZ1 MVOLT 4SQD CD Input Watts: 33.4, Delivered Lumens: 2541, LPW: 76.1, S/MH: 1.19, Test No: 20-422-11P158



CP Summary

0°	
0°	1,789
5°	1,854
15°	2,183
25°	2,049
35°	973
45°	118
55°	63
65°	31
75°	12
85°	3
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	1,631	64%
0° - 40°	2,256	89%
0° - 60°	2,499	98%
0° - 90°	2,541	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
0	119	119	119	117	117	117	111	111	111
1	110	108	105	108	106	104	104	102	100
2	102	98	94	100	96	93	97	94	91
3	94	89	85	93	88	84	90	86	83
4	88	82	77	86	81	77	84	79	76
5	81	75	70	80	75	70	79	73	69
6	76	69	65	75	69	65	73	68	64
7	71	64	60	70	64	60	69	63	59
8	66	60	55	66	60	55	65	59	55
9	62	56	52	62	56	51	61	55	51
10	58	52	48	58	52	48	57	52	48

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	49.7	8.0
8.0	28.0	10.6
10.0	17.9	13.3
12.0	12.4	15.9
14.0	9.1	18.6

Luminance (cd/sq.m)

	Average Luminance
45°	13,862
55°	9,188
65°	6,077
75°	3,949
85°	2,447

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI
2700K	0.95	0.83	0.68
3000K	1.00	0.87	0.73
3500K	1.02	0.89	-
4000K	1.04	-	-

12LM	17LM	22LM	27LM	32LM
0.39	0.50	0.68	0.84	1.0

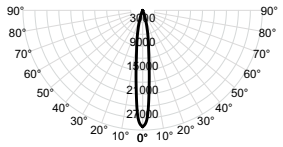
*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

PHOTOMETRICS - 4SQDBV

Tested in accordance to IESNA LM79

12 Degree Beam

AX4SQ D 32LM 30K 80CRI 12D EZ1 MVOLT 4SQDBV BD Input Watts: 33.4, Delivered Lumens: 3046, LPW: 91.2, S/MH: 0.22, Test No: 20-422-12P40



CP Summary

	0°
0°	29,200
5°	18,742
15°	3,928
25°	430
35°	50
45°	17
55°	2
65°	1
75°	0
85°	0
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	2,981	98%
0° - 40°	3,029	99%
0° - 60°	3,045	100%
0° - 90°	3,046	100%

Coefficients of Utilization

ρf	20%			70%			50%		
ρc	80%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	123	123	123	120	120	120	115	115	115
1	117	116	114	115	114	112	111	110	109
2	113	110	108	111	108	106	108	106	104
3	109	105	103	107	104	102	105	102	100
4	105	102	99	104	101	98	102	99	97
5	102	98	96	101	98	95	100	97	95
6	99	96	93	99	95	93	97	94	92
7	97	93	91	96	93	91	95	92	90
8	95	91	89	94	91	88	93	90	88
9	93	89	87	92	89	87	92	89	86
10	91	87	85	90	87	85	90	87	85

Cone of Light

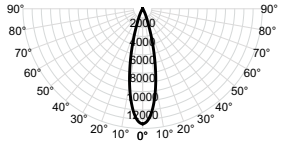
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	811.1	1.4
8.0	456.3	1.8
10.0	292.0	2.3
12.0	202.8	2.8
14.0	149.0	3.2

Luminance (cd/sq.m)

	Average Luminance
45°	3,620
55°	634
65°	336
75°	183
85°	181

24 Degree Beam

AX4SQ D 32LM 30K 80CRI 24D EZ1 MVOLT 4SQDBV BD Input Watts: 33.4, Delivered Lumens: 2856, LPW: 85.5, S/MH: 0.43, Test No: 20-422-14P40



CP Summary

	0°
0°	12,519
5°	11,253
15°	4,555
25°	805
35°	140
45°	23
55°	3
65°	1
75°	0
85°	0
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	2,715	95%
0° - 40°	2,826	99%
0° - 60°	2,854	100%
0° - 90°	2,856	100%

Coefficients of Utilization

ρf	20%			70%			50%		
ρc	80%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	121	121	121	118	118	118	113	113	113
1	115	113	111	112	111	109	108	107	106
2	109	106	104	108	105	103	104	102	100
3	105	101	98	103	100	97	101	98	96
4	101	97	94	100	96	93	98	94	92
5	97	93	90	96	92	89	94	91	89
6	94	89	86	93	89	86	92	88	86
7	91	86	83	90	86	83	89	85	83
8	88	84	81	87	83	81	86	83	80
9	85	81	78	85	81	78	84	81	78
10	83	79	76	83	79	76	82	78	76

Cone of Light

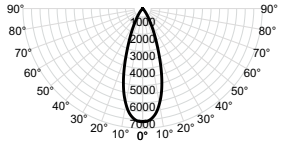
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	347.8	2.7
8.0	195.6	3.6
10.0	125.2	4.5
12.0	86.9	5.4
14.0	63.9	6.3

Luminance (cd/sq.m)

	Average Luminance
45°	4,781
55°	689
65°	336
75°	183
85°	181

35 Degree Beam

AX4SQ D 32LM 30K 80CRI 35D EZ1 MVOLT 4SQDBV BD Input Watts: 33.4, Delivered Lumens: 2873, LPW: 86.0, S/MH: 0.60, Test No: 20-422-16P40



CP Summary

	0°
0°	6,619
5°	6,424
15°	4,335
25°	1,569
35°	420
45°	33
55°	3
65°	1
75°	0
85°	0
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	2,521	88%
0° - 40°	2,810	98%
0° - 60°	2,872	100%
0° - 90°	2,873	100%

Coefficients of Utilization

ρf	20%			70%			50%		
ρc	80%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	120	120	120	117	117	117	112	112	112
1	113	111	109	111	109	107	107	105	104
2	107	103	100	105	102	99	102	99	97
3	101	97	93	100	96	93	97	94	91
4	96	91	88	95	91	87	93	89	86
5	91	86	83	90	86	83	89	85	82
6	87	82	79	86	82	78	85	81	78
7	83	78	75	83	78	75	82	77	74
8	80	75	71	79	75	71	78	74	71
9	77	72	68	76	71	68	75	71	68
10	74	69	66	73	69	65	72	68	65

Cone of Light

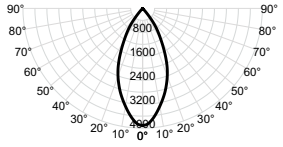
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	183.9	3.9
8.0	103.4	5.3
10.0	66.2	6.6
12.0	46.0	7.9
14.0	33.8	9.2

Luminance (cd/sq.m)

	Average Luminance
45°	6,926
55°	661
65°	336
75°	183
85°	0

50 Degree Beam

AX4SQ D 32LM 30K 80CRI 50D EZ1 MVOLT 4SQDBV BD Input Watts: 33.4, Delivered Lumens: 2581, LPW: 77.3, S/MH: 0.74, Test No: 20-422-19P40



CP Summary

	0°
0°	3,910
5°	3,720
15°	2,888
25°	1,839
35°	778
45°	33
55°	3
65°	1
75°	0
85°	0
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	1,978	77%
0° - 40°	2,485	96%
0° - 60°	2,579	100%
0° - 90°	2,581	100%

Coefficients of Utilization

ρf	20%			70%			50%		
ρc	80%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	120	120	120	117	117	117	112	112	112
1	112	109	107	110	108	106	106	104	102
2	105	101	98	103	99	96	100	97	94
3	98	93	90	97	92	89	94	90	88
4	92	87	83	91	86	82	89	85	81
5	87	81	77	86	81	77	84	80	76
6	82	76	72	81	76	72	80	75	71
7	77	72	68	77	71	68	75	71	67
8	73	68	64	73	67	64	72	67	63
9	70	64	60	69	64	60	68	63	60
10	66	61	57	66	60	57	65	60	57

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	108.6	5.4
8.0	61.1	7.1
10.0	39.1	8.9
12.0	27.2	10.7
14.0	19.9	12.5

Luminance (cd/sq.m)

	Average Luminance
45°	6,815
55°	881
65°	449
75°	244
85°	181

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI
2700K	0.95	0.83	0.68
3000K	1.00	0.87	0.73
3500K	1.02	0.89	-
4000K	1.04	-	-

12LM	17LM	22LM	27LM	32LM
0.39	0.50	0.68	0.84	1.0

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

DIMMER COMPATIBILITY

Phase Dimming (FPC) - Incandescent, Magnetic Low Voltage and Electronic Low Voltage Dimming

- Dimming range of 100% down to as low as 1% a minimum load of one fixture
- Dimming range and maximum rated load vary depending on dimmer type and model. See maximum load calculations below to identify max number of luminaires per dimmer.

Incandescent (INC) and Magnetic Low Voltage (MLV)

Example: Fixture Rating = 13W; Dimmer Rating = 600W
Equivalent Incandescent Load (EIL) = 50%
(600/13W) X 0.5 = 23 Fixtures per Dimmer

Electronic Low Voltage (ELV)

Example: Fixture Rating = 13W; Dimmer Rating = 600W
Equivalent Incandescent Load (EIL) = 75%
(600/13W) X 0.75 = 34 Fixtures per Dimmer

INCANDESCENT, MLV, ELV WALL DIMMERS

Static White

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	Glyder	GLV*	MLV	2
Leviton	SureSlide	6633*	INC	2
Lutron	Diva	DVLV	MLV	6
Lutron	Diva	DV*	INC	2
Lutron	Skylark	SLV*	MLV	3
Lutron	RadioRA 2	RRD-6D*	INC	2
Lutron	RadioRA 2	RRD-10ND*	INC	2
Leviton	SureSlide	6613	MLV	5
Leviton	IllumaTech	IPL06-10Z*	INC	3
Lutron	Diva	DVCL	INC	3
Insteon	Keypad Dimmer	2334-232	INC	2
Insteon	Dimmer Switch	2477D*	INC	2
Control4	Forward Phase Dimmer	C4-FPD 120	INC	2
Lutron	Nova	NTELV	ELV	6
Lutron	Diva	DVELV*	ELV	2
Lutron	Lutron Maestro	MAELV*	ELV	5
Leviton	Vizia	VPE06-1LX	ELV	2
Leviton	Illumatech	IPE04*	ELV	5
Lutron	Lutron RadioRA2	RRD-6NA	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120	PHA	2
Lutron	RadioRA2	RRD-6NA*	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120	PHA	2

WarmDim®

Manf.	Product Family	Series	Type	Min Light(%)
Sensor Switch	WPD	WPD*	INC	1
Leviton	Illmatech	IPM06-1LZ	MLV	3
Leviton	Illmatech	IPI06-1LZ	INC	2
Lutron	Diva	DVCL	INC	1
Leviton	SureSlide	6633*	INC	1
Leviton	SureSlide	6613*	MLV	1
Leviton	SureSlide	IPL06	INC	1
Control4	Forward phase dimmer	C4-FPD 120 FWD*	INC	1
Lutron	Diva	DVELV*	ELV	1
Lutron	Maestro	MAELV*	ELV	1
Lutron	Vive	MRF25-6ELV*	ELV	1
Lutron	Caseta	PD-5NE*	ELV	1
Leviton	Illumatech	IPE04	ELV	4
Lutron	Maestro	RRD-PRO REV	PHA	1
Control4	Phase Adaptive Dimmer	C4-APD 120*	PHA	1
Lutron	Maestro	RRD-PRO FWD*	PHA	1

INTEGRATED CONTROL SYSTEMS

Static White

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	LP	LP-RPM-4U	INC	5
Lutron	LP	LP-RPM-4A*	PHA	2
Lutron	GrafikEye QS	QSGRJ-3P	PHA	2
Lutron	GrafikEye QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	HW-RPM-4A*	PHA	2
Acuity	nLight nSP5PCD ELV	nSP5PCD*	ELV	4
Insteon	Micro Module Dimmer	2442-222*	INC	2
Control4	8 Ch Dimmer	C4-DIN-8DIM-E	PHA	2

WarmDim®

Manf.	Product Family	Series	Type	Min Light(%)
Acuity	nLight nSP5PCD ELV	nSP5PCD ELV*	ELV	1
Acuity	nLight nSP5PCD ELV	PCDM*	ELV	1
Acuity	Fresco LMPM	LMPM 2D 2L*	PHA	1
Lutron	LP	LP-RPM-4A *	PHA	1
Lutron	LP	LP-RPM-4U*	INC	1
Lutron	GrafikEye QS	Lutron PHPM-PA-120*	PHA	1
Lutron	GrafikEye QS	Lutron Grafik Eye QSGRJ-3P*	MLV	1
Lutron	HomeWorks QS	PHPM-PA-120*	PHA	1
Lutron	HomeWorks QS	HW-RPM-4A*	PHA	1
Legrand	Wattstopper	LMRC-221-U*	PHA	1
Control4	8 Ch Dimmer	C4-DIN-8DIM-E*	PHA	1
Crestron	Phase Adaptive Dimmer	6501748*	PHA	1

*: Aculux recommended dimmers

0-10V Dimming (GZ1, EZ1, EZB drivers)

WALL DIMMERS

Manf.	Product Family	Series	Type	-EZ1/-GZ1 Min. Light (%)	-EZB Min. Light (%)
Lutron	Diva	DVTV	0-10V	1	<1
Lutron	Nova	NFTV	0-10V	1	<1
Lutron	Nova T	NTFTV	0-10V	1	<1

INTEGRATED CONTROL SYSTEMS

Manf.	Product Family	Series	Type	-EZ1/-GZ1 Min. Light (%)	-EZB Min. Light (%)
Lutron	GrafikEye QS	GRX-TVI*	0-10V	1	<1
Lutron	HomeWorks QS	GRX-TVI*	0-10V	1	<1
Lutron	HomeWorks QS	GRX-TVM2*	0-10V	1	<1
Lutron	LCP128	GRX-TVI*	0-10V	1	<1
Lutron	LCP128	GRX-TVM2*	0-10V	1	<1
Lutron	LP	GRX-TVM2*	0-10V	1	<1
Lutron	RadioRA2	LMJ-5T-DV-B	0-10V	1**	<1
Crestron	GreenLight	DIN-4DIMFLV4	0-10V	1	<1
Lutron	Energi Tripak	RMJ-5T-DV-B	0-10V	1	<1
Wattstopper	DLM	LMRC-211	0-10V	1	<1
Insteon	Ballast Dimmer	2475DA2	0-10V	1	<1

*: Aculux recommended dimmers
**: Not tested with -GZ1
+: Requires a separate relay module to turn luminaire on/off

WDGE1 LED

Architectural Wall Sconce

Catalog Number

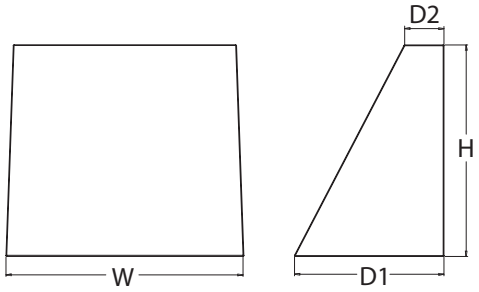
Notes

Type WP1A, WP1B

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

Specifications

Depth (D1): 5.5"
Depth (D2): 1.5"
Height: 8"
Width: 9"
Weight: (without options) 9 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

design select 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

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	6,000	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P0	27K 2700K	80CRI	VF Visual comfort forward throw	MVOLT	**Shipped included**
	P1	30K 3000K	90CRI	VW Visual comfort wide	347[2]	SRM Surface mounting bracket
	P2	35K 3500K				ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[3]
		40K 4000K				**Shipped separately**
		50K[1] 5000K				AWS 3/8inch Architectural wall spacer[4]
						PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.[4]

Options	
E4WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)[5]
PE	Photocell, Button Type[6]
DS	Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)[7]
DMG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.
DSLE	Dual Switching (1 Driver, 2 Light Engines)
CCE	Coastal Construction[4]

Finish			
DDBXD	Dark bronze	DDBTXD	Textured dark bronze
DBLXD	Black	DBLBXD	Textured black
DNAXD	Natural aluminum	DNATXD	Textured natural aluminum
DWHXD	White	DWHGXD	Textured white
DSSXD	Sandstone	DSSTXD	Textured sandstone

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE1PBBW DDBXD U	WDGE1 surface-mounted back box (specify finish)

NOTES

1 50K not available in 90CRI.
2 347V not available with E4WH, DS, DSLE or PE.
3 Not qualified for DLC. Not available with E4WH.
4 For PBBW and AWS with CCE option, require an RFA.
5 E4WH not available with PE or DS.
6 PE not available with DS.
7 DS is not available with P0.

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.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	VF	693	99	0	0	0	718	103	0	0	0	739	106	0	0	0	759	108	0	0	0	764	109	0	0	0
		VW	694	99	0	0	0	720	103	0	0	0	740	106	0	0	0	760	109	0	0	0	766	109	0	0	0
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P0	7W	0.060	0.035	0.030	0.026	--
	9W	--	--	--	--	0.026
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

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	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

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	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

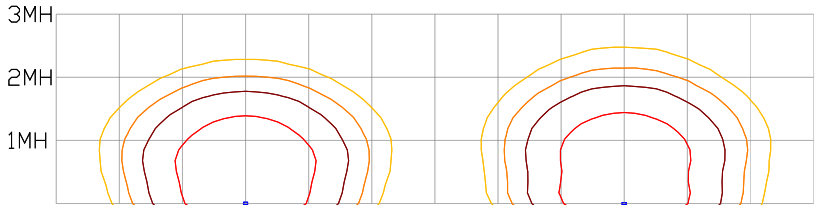
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND

- 0.25 fc
- 0.5 fc
- 1.0 fc
- 3.0 fc

MH = 8ft
Grid = 8ft x 8ft



WDGE1 LED P2 40K 80CRI VW

WDGE1 LED P2 40K 80CRI VF

Emergency Egress Options

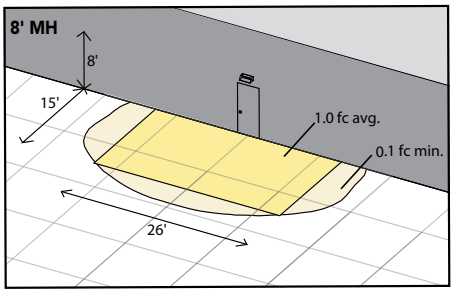
Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.

Grid = 10ft x 10ft

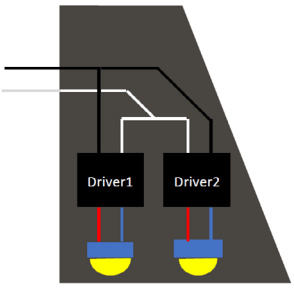


WDGE1 LED xx 40K 80CRI VF MVOLT E4WH

Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark.

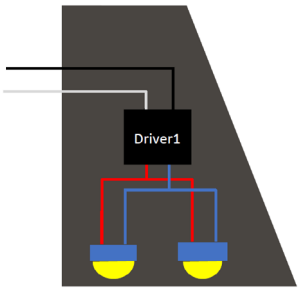
Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



Dual Switching Light Engine (DSLE) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with one driver and two light engines. These work completely independent to each other so that a failure of either light engine does not cause the whole luminaire to go dark.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



Mounting, Options & Accessories

E4WH – 4W Emergency Battery Backup

D = 5.5"

H = 8"

W = 9"

PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75"

H = 8"

W = 9"

AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH
Exterior painted 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 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED 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 consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

GOVERNMENT PROCUREMENT
BABA – Build America Buy America: Product 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.