LUMINIS ®

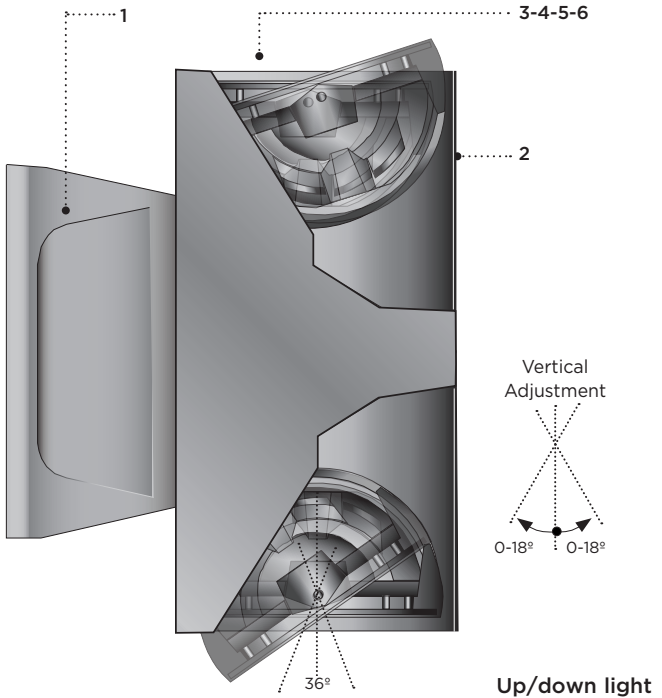## SQ802 SERIES
SYRIOS SQUARE - LED
WALL UP/DOWN LIGHT

TYPE: __OA__   QUANTITY: _____   PROJECT: __PHC Waukesha Clinic__

CATALOG NUMBER:	SQ802	L2L20	R15	120V	BKT			
	FIXTURE	SUFFIX	REFLECTOR	VOLTAGE	FINISH	OPTION	OPTION	OPTION

1 — 3-4-5-6

2

Vertical Adjustment

0-18º   0-18º

36º

Up/down light

1- Cast aluminum driver housing. Includes galvanized steel wall mount pressure plate.
2- Seamless extruded aluminum housing.
3- Fully sealed cast aluminum up/down light assembly.
4- Sealed cast aluminum lens frame.
5- Clear tempered glass lens.
6- Faceted specular aluminum reflector.

All stainless steel hardware.

SQ802

Syrios Square LED light module is designed with a tilting mechanism allowing forward and back light adjustability. The ±18º directional module allows to aim the light beam in the desired direction, without disturbing the luminaire mounting. The module can be secured using the built in locking mechanism.

Standard forward and back light throw

AR180: Optional 180º angle left and right side of luminaire.
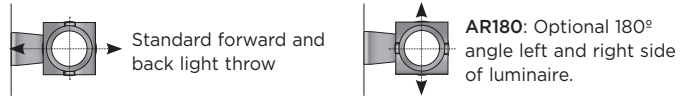
Other adjustment factory set positions are available. Please consult factory.

MATERIALS
Syrios Square LED is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
The main housing is made of seamless extruded aluminum, with an integrally sealed LED light module designed for optimal heat dissipation, and lighting performance.
Syrios Square LED is standard with a unique proprietary design allowing the sealed LED module to tilt within the housing.
Syrios Square LED SQ802 series is offered standard with 28º optic. See options section for alternate selection.

ELECTRICAL
DRIVER Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -40ºC/-40ºF to 55ºC/131ºF, output over voltage protection, output over current protection and output short circuit protection with auto-recovery.
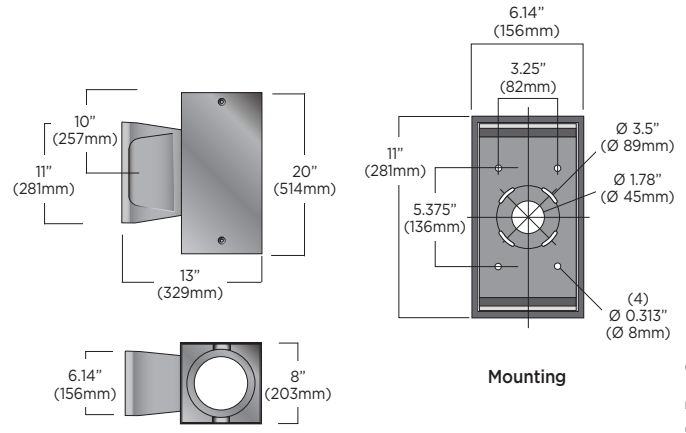
LED Standard 4000K/80CRI. Optional 2700K, 3000K & 3500K. Optional Amber LED for turtle sensitive areas. Wavelengths: 584.5nm to 597nm.

LIFE
60,000hrs $L_{70}B_{50}$ (based on IESNA TM-21 Test Method and LM-80 data).
Up to 135,000hrs $L_{70}B_{50}$ (calculated projection from LM-80 data).

FINISH
Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

MOUNTING
Maximum weight: 35.3 lbs (16 kg)
The mounting plate is designed to fit on a 4" (102mm) octagonal electrical box using 3 1/2" (89mm) C/C mounting holes.
Additional mounting holes are provided as per site requirements.

CERTIFICATION
Tested to UL1598 and CSA 22.2 #250. ETL listed wet location.
Rated IP66.

10" (257mm)

11" (281mm)

20" (514mm)

13" (329mm)

6.14" (156mm)

8" (203mm)

6.14" (156mm)

3.25" (82mm)

11" (281mm)

5.375" (136mm)

Ø 3.5" (Ø 89mm)

Ø 1.78" (Ø 45mm)

(4) Ø 0.313" (Ø 8mm)

Mounting

LUMINIS | Toll free: 866.586.4647 Fax: 514.683.8872 Email: info@luminis.com
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

LUMINIS.COM

| 1

SQ802 SERIES
SYRIOS SQUARE - LED

LUMINAIRE SELECTION

❶ MODEL#

☑ SQ802

❷ LED LIGHT SELECTION

SUFFIX	INPUT WATTS	DELIVERED LUMENS	CRI	CCT ºK
☑ L2L20	43W	4315	80	4000
☐ L2L35	81W	7144	80	4000
☐ L2L50	110W	10713	80	4000
☐ L2L70 [4]	146W	13840	80	4000

AMBER LED

SUFFIX	INPUT WATTS	DELIVERED LUMENS	CRI	
☐ L2L4K2A	21W	869	AMBER	

VERY NARROW DISTRIBUTION

SUFFIX	INPUT WATTS	DELIVERED LUMENS	CRI	CCT ºK
☐ L2L25NR	88W	5245	80	4000

❸ REFLECTORS*

- ☑ **R15** Narrow optics 12º (not available on L2L70)
- ☐ **R30** Flood optics 28º (standard)
- ☐ **R40** Wide flood optics 38º
- ☐ **R55** Wide flood optics 55º

*All reflector options listed above must be selected independently for uplight & downlight. Add U (for uplight) and D (for downlight) to suffix. (i.e. R55U-R30D is 55º uplight and 28º downlight)

- ☐ **R9** Very narrow optics 9º Field angle 21º (57,588 candela)

❹ VOLTAGE

- ☑ 120V
- ☐ 277V

Optional
- ☐ 347V

❺ FINISH

STANDARD COLORS
- ☐ WHT Snow white
- ☑ BKT Jet black
- ☐ BZT Bronze
- ☐ MST Matte silver
- ☐ GRT Titanium gray
- ☐ DGT Gun metal
- ☐ CHT Champagne
- ☐ SGT Steel gray
- ☐ BGT English cream

(Refer to color chart)

OPTIONAL COLORS
- ☐ CS Custom color
- ☐ RAL RAL# color

NATATORIUM SUITED COLORS
- ☐ NWHT White
- ☐ NBKT Black

OPTIONS

ELECTRICAL

- ☐ **FS** Fuse
- ☐ **PH** Photocell [1]
- ☐ **347L** Step down transformer for 347V input
- ☐ **DS** Dual circuit switching (independent uplight & downlight control)
- ☐ **MS** PIR Motion sensor (Device is located at bottom of luminiare wall box) [3]
- ☐ **REML2-50** 7W remote emergency battery backup for LED, 90 min. Remote mount 50ft - 12" (305mm) square enclosure with access cover [2]

MOUNTING

- ☐ **SWK** Adaptor box for surface 3/4" conduit feed (4 sides plus back entry)

LIGHT & OPTICS

Alternate CCT ºK LED (LCF: Lumen conversion factor)

- ☐ **2K27** 2700K CCT 80 CRI (LCF: 0.91) [5]
- ☐ **2K3** 3000K CCT 80 CRI (LCF: 0.94)
- ☐ **2K35** 3500K CCT 80 CRI (LCF: 0.983) [5]

NOTE: Other CCT & higher CRI available, please consult factory.

- ☐ **AR180** Light module with side to side adjustment

ACCESSORIES

All options listed below must be selected independently for uplight & downlight. Add U (for uplight) and D (for downlight) to suffix.

- ☐ **HL** Hexcell louver
- ☐ **SL** Solite lens (light loss factor [LLF]: 0.9)
- ☐ **LSL** Linear spread lens (Asymmetric lens distribution is achieved when light module is tilted)

NOTES

1- Photocell (PH) not available with REML2-50 option.
2- The remote enclosure must be interior. Battery powers downlight module, unless otherwise requested (only one module is powered by the emergency battery).
3- PIR Motion sensor (MS) not available with REML2-50 option.
4- L2L70 lumen is unavailable in 347V.
5- 2K27 and 2K35 options not available with the R9 optics.

LUMINIS

LUMINIS.COM

Luminaires may be altered for design improvement or discontinued without prior notice.

SQ802 SERIES
SYRIOS SQUARE - LED

TYPICAL PHOTOMETRY SUMMARY
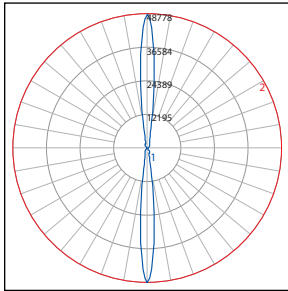
Descriptive Information

SQ802-L2L50-R15
Total Lms: 9056 Lumens
Total Input Watts: 110 W
Efficacy: 82 Lumens/Watt
BUG: B3-U5-G0
CCT/CRI: 4000K/80
Maximum Candela: 48778 @ 0 deg
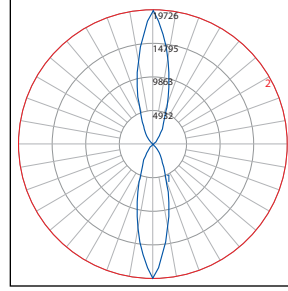
Descriptive Information

SQ802-L2L70-R30
Total Lms: 13840 Lumens
Total Input Watts: 146 W
Efficacy: 95 Lumens/Watt
BUG: B4-U5-G0
CCT/CRI: 4000K/80
Maximum Candela: 19726 @ 0 deg
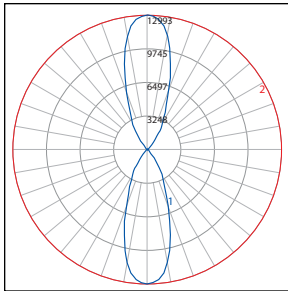
Descriptive Information

SQ802-L2L70-R40
Total Lms: 13147 Lumens
Total Input Watts: 146 W
Efficacy: 90 Lumens/Watt
BUG: B4-U5-G0
CCT/CRI: 4000K/80
Maximum Candela: 12993 @ 0 deg
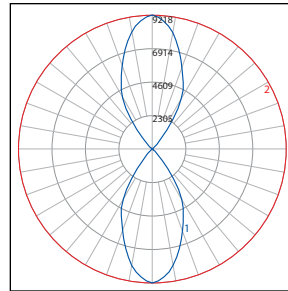
Descriptive Information

SQ802-L2L70-R55
Total Lms: 14003 Lumens
Total Input Watts: 146 W
Efficacy: 96 Lumens/Watt
BUG: B4-U5-G0
CCT/CRI: 4000K/80
Maximum Candela: 9218 @ 0 deg
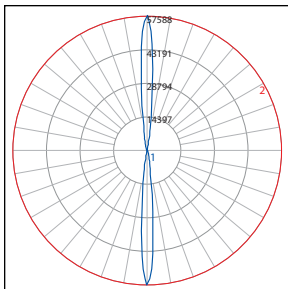
Descriptive Information

SQ802-L2L25NR-R9
Total Lms: 5245 Lumens
Total Input Watts: 88 W
Efficacy: 60 Lumens/Watt
BUG: B3-U5-G0
CCT/CRI: 4000K/80
Maximum Candela: 57588 @ 0 deg

Please visit our web site www.luminis.com for complete I.E.S. formatted download data.

LUMINIS | Toll free: 866.586.4647 Fax: 514.683.8872 Email: info@luminis.com
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

LUMINIS.COM

Luminaires may be altered for design improvement or discontinued without prior notice.

Apr 2020 Rev.0

3

LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

LDN6SQ

6" Square Open and WallWash LED
Non-IC
New Construction Downlight

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Durable square metal reflectors retained by torsion springs.

Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment. Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:
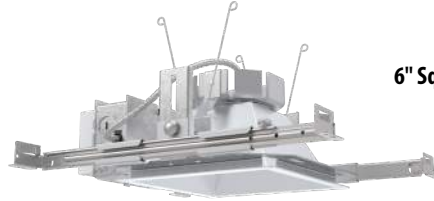www.acuitybrands.com/support/warranty/terms-and-conditions

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.

A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6SQ 35/15 LS6AR LSS MVOLT EZ1

LDN6SQ

Series	Color temperature	Lumens[1]		Aperture/Trim Color			Finish	Voltage	
LDN6SQ 6" square	27/ 2700K	05 500 lumens	25 2500 lumens	LS6 Downlight	AR Clear	LSS Semi-specular	MVOLT Multi-volt	
	30/ 3000K	07 750 lumens	30 3000 lumens	LSW6 Wallwash	WR[2] White	LD Matte diffuse	120 120V	
	35/ 3500K	10 1000 lumens	40 4000 lumens		BR[2] Black	LS Specular	277 277V	
	40/ 4000K	15 1500 lumens	50 5000 lumens				347[3] 347V	
	50/ 5000K	20 2000 lumens						

Driver		Options			
GZ10	0-10V driver dims to 10%	SF[4]	Single fuse	N80[8]	nLight™ Lumen Compensation
GZ1	0-10V driver dims to 1%	TRW[5]	White painted flange	JOT[13]	Wireless room control with "Just One Touch" pairing
D10	Minimum dimming 10% driver for use with JOT	TRBL[5]	Black painted flange	NPS80EZ[7]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
D1	Minimum dimming 1% driver for use with JOT	EL[6]	Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	NPS80EZER[7]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
EZ10	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	ELR[6]	Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	HAO[11]	High ambient option
		ELSD[6]	Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	CP[12]	Chicago Plenum
EZ1	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELRSD[6]	Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	RRL___	RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only in RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for the RELOC product specifications.
		E10WCP[6]	Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB		
EDAB	eldoLED DALI SOLDRIVE dim to dark	E10WCPR[6]	Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB	NLTAIR2[9,10]	nLight® Air enabled
		NPP16D[7]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	NLTAIRER2[9,10]	nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options.
		NPP16DER[7]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	NLTAIREM2[9,10]	nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options.
				USPOM	US point of manufacture
				90CRI	High CRI (90+)

Notes

1. Overall height varies based on lumen package; refer to dimensional chart on page 3.
2. Not available with finishes.
3. Not available with emergency options.
4. Must specify voltage 120V or 277V.
5. Available with clear (AR) reflector only.
6. 12.5" of plenum depth or top access required for battery pack maintenance.
7. Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
8. Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.
9. Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
10. NLTAIR2, NLTAIRER2 and NLTAIREM2 not recommended for metal ceiling installations.
11. Fixture height is 6.5" for all lumen packages with HAO.
12. Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.
13. Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.

PHOTOMETRY

| Distribution Curve | Distribution Data | Output Data | Coefficient of Utilization | Illuminance Data at 30" Above Floor for a Single Luminaire |

LDN6SQ 35/10 LS6AR, input watts: 10.44, delivered lumens: 942.9, LM/W = 90.31, spacing criterion at 0= 0.96, test no. ISF 31035P168.

	Ave	Lumens
0	874	
5	864	81
15	726	203
25	547	252
35	389	242
45	186	142
55	17	22
65	2	2
75	1	1
85	0	0
90	0	

Zone	Lumens	% Lamp
0°-30°	535.1	56.7
0°-40°	776.6	82.3
0°-60°	940.4	99.7
0°-90°	942.9	99.9
90°-120°	0.0	0.0
90°-130°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.5	0.1
0°-180°	943.4	*100.0
	*Efficiency	

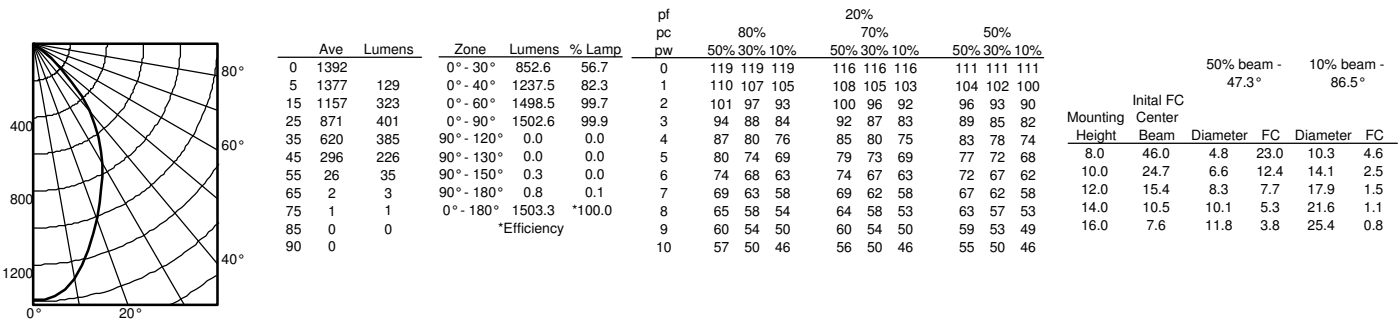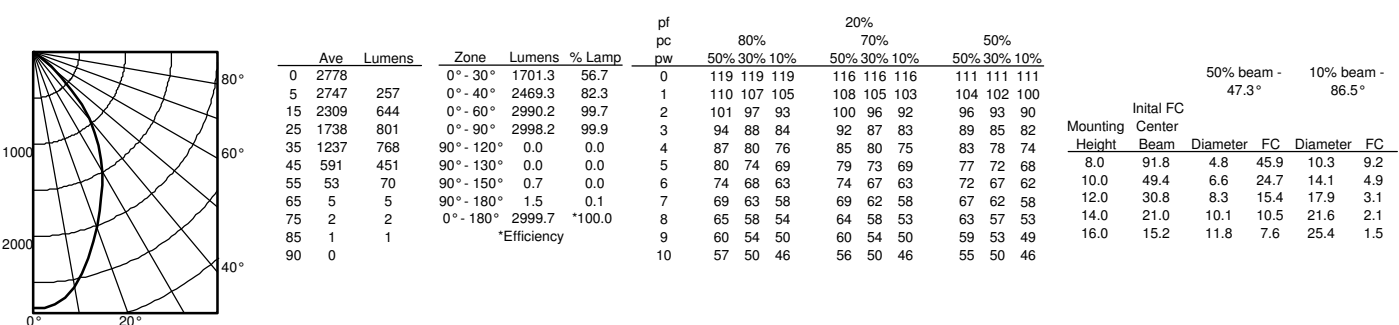| pf pc pw	80%			20% 70%			50%		
	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	110	107	105	108	105	103	104	102	100
2	101	97	93	100	96	92	96	93	90
3	94	88	84	92	87	83	89	85	82
4	87	80	76	85	80	75	83	78	74
5	80	74	69	79	73	69	77	72	68
6	74	68	63	74	67	63	72	67	62
7	69	63	58	69	62	58	67	62	58
8	65	58	54	64	58	53	63	57	53
9	60	54	50	60	54	50	59	53	49
10	57	50	46	56	50	46	55	50	46

		50% beam - 47.3°		10% beam - 86.5°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	28.9	4.8	14.4	10.3	2.9
10.0	15.5	6.6	7.8	14.1	1.6
12.0	9.7	8.3	4.8	17.9	1.0
14.0	6.6	10.1	3.3	21.6	0.7
16.0	4.8	11.8	2.4	25.4	0.5

LDN6SQ 35/15 LS6AR, input watts: 17.52, delivered lumens: 1502.6, LM/W = 85.76, spacing criterion at 0= 0.96, test no. ISF 31035P171.

	Ave	Lumens
0	1392	
5	1377	129
15	1157	323
25	871	401
35	620	385
45	296	226
55	26	35
65	2	3
75	1	1
85	0	0
90	0	

Zone	Lumens	% Lamp
0°-30°	852.6	56.7
0°-40°	1237.5	82.3
0°-60°	1498.5	99.7
0°-90°	1502.6	99.9
90°-120°	0.0	0.0
90°-130°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	0.8	0.1
0°-180°	1503.3	*100.0
	*Efficiency	

pf pc pw	80%			20% 70%			50%		
	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	110	107	105	108	105	103	104	102	100
2	101	97	93	100	96	92	96	93	90
3	94	88	84	92	87	83	89	85	82
4	87	80	76	85	80	75	83	78	74
5	80	74	69	79	73	69	77	72	68
6	74	68	63	74	67	63	72	67	62
7	69	63	58	69	62	58	67	62	58
8	65	58	54	64	58	53	63	57	53
9	60	54	50	60	54	50	59	53	49
10	57	50	46	56	50	46	55	50	46

		50% beam - 47.3°		10% beam - 86.5°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	46.0	4.8	23.0	10.3	4.6
10.0	24.7	6.6	12.4	14.1	2.5
12.0	15.4	8.3	7.7	17.9	1.5
14.0	10.5	10.1	5.3	21.6	1.1
16.0	7.6	11.8	3.8	25.4	0.8

LDN6SQ 35/30 LS6AR, input watts: 34.75, delivered lumens: 2998.2, LM/W = 86.27, spacing criterion at 0= 0.96, test no. ISF 31035P180.

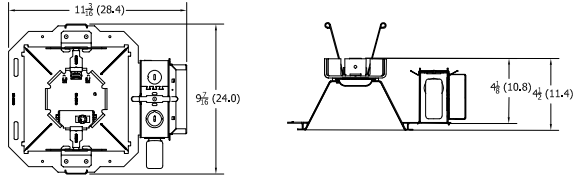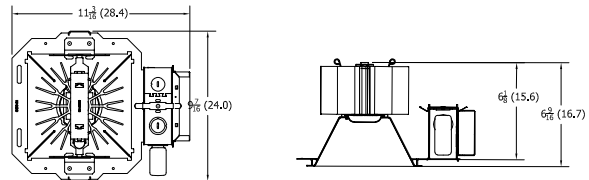|	Ave	Lumens
0	2778	
5	2747	257
15	2309	644
25	1738	801
35	1237	768
45	591	451
55	53	70
65	5	5
75	2	2
85	1	1
90	0	

Zone	Lumens	% Lamp
0°-30°	1701.3	56.7
0°-40°	2469.3	82.3
0°-60°	2990.2	99.7
0°-90°	2998.2	99.9
90°-120°	0.0	0.0
90°-130°	0.0	0.0
90°-150°	0.7	0.0
90°-180°	1.5	0.1
0°-180°	2999.7	*100.0
	*Efficiency	

pf pc pw	80%			20% 70%			50%		
	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	110	107	105	108	105	103	104	102	100
2	101	97	93	100	96	92	96	93	90
3	94	88	84	92	87	83	89	85	82
4	87	80	76	85	80	75	83	78	74
5	80	74	69	79	73	69	77	72	68
6	74	68	63	74	67	63	72	67	62
7	69	63	58	69	62	58	67	62	58
8	65	58	54	64	58	53	63	57	53
9	60	54	50	60	54	50	59	53	49
10	57	50	46	56	50	46	55	50	46

		50% beam - 47.3°		10% beam - 86.5°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	91.8	4.8	45.9	10.3	9.2
10.0	49.4	6.6	24.7	14.1	4.9
12.0	30.8	8.3	15.4	17.9	3.1
14.0	21.0	10.1	10.5	21.6	2.1
16.0	15.2	11.8	7.6	25.4	1.5

LITHONIA LIGHTING®

* All dimensions are inches (centimeters) unless otherwise noted.

LDN6SQ 500 - 1500 LUMENS

11 3/16 (28.4)
9 7/16 (24.0)
4 1/4 (10.8) 4 1/2 (11.4)

Aperture: 6-1/4 (15.9)
Ceiling Opening: 7-1/8 (18.1)
Overlap Trim: 7-1/2 (19.1)

LDN6SQ 2000 - 3000 LUMENS

11 3/16 (28.4)
9 7/16 (24.0)
6 1/8 (15.6)
6 9/16 (16.7)

Aperture: 6-1/4 (15.9)
Ceiling Opening: 7-1/8 (18.1)
Overlap Trim: 7-1/2 (19.1)

LDN6SQ 4000 - 5000 LUMENS

11 3/16 (28.4)
9 7/16 (24.0)
6 1/8 (15.6)
6 9/16 (16.7)
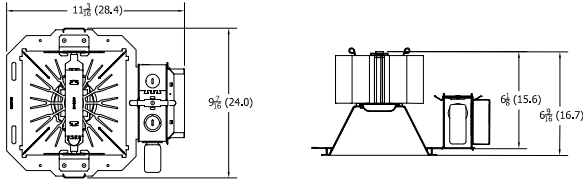
Marked Spacing: 24 x 24 x 10
Aperture: 6-1/4 (15.9)
Ceiling Opening: 7-1/8 (18.1)
Overlap Trim: 7-1/2 (19.1)

LDN6 CP

21 5/16 (54.1)
14 9/16 (11.6)
16 13/16 (42.7)
9 1/16 (23.0)

LDN6 EL

20 5/16 (51.6)
19 1/16 (48.5)
5 9/16 (14.1)
6 (15.2)
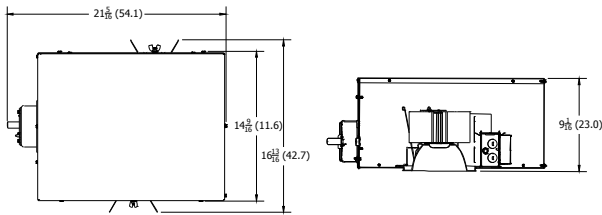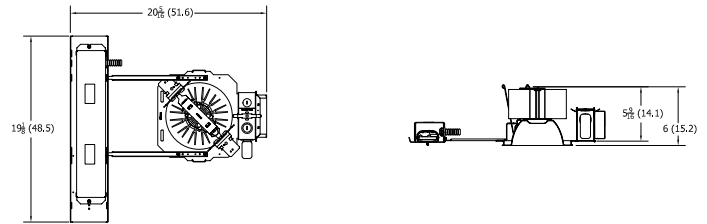
Marked Spacing over 3000 Lumens: 24 x 24 x 10
Aperture: 6-1/4 (15.9)
Ceiling Opening: 7-1/8 (18.1)
Overlap Trim: 7-1/2 (19.1)

LDN6SQ

Nominal Lumens	Lumens	Wattage	Lm/W
500	498	5.8	85.4
750	715	8.9	80.2
1000	896	10.4	85.8
1500	1428	17.5	81.5
2000	1892	22.5	84.0
2500	2362	28.3	83.6
3000	2850	34.8	82.0
4000	3781	44.3	85.4
5000	4694	57.7	81.4

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Ouput power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.
The LPW rating is also available at Designlight Consortium.

LUMEN OUTPUT MULTIPLIERS - FINISH

	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

LUMEN OUTPUT MULTIPLIERS - CCT

|	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

Notes
- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

LITHONIA LIGHTING®

ADDITIONAL DATA

JOT
JUST ONE TOUCH

The Sensor Switch JOT enabled solution offers a wireless, app-free approach to single room lighting control. JOT enabled products use Bluetooth® Low Energy (BLE) technology to enable wireless dimming and switching.

Diagram
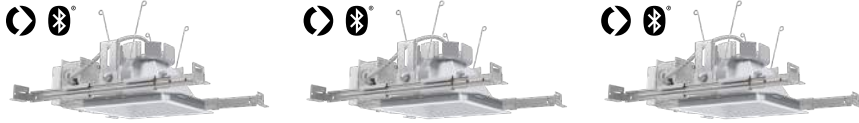
LDN6SQ Series

Sensor Switch
WSXA JOT

1. **Power:** Install JOT enabled fixtures and controls as instructed.
2. **Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
3. **Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DVTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis 0A2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

⟨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.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

LITHONIA LIGHTING®

EXAMPLE
Group Fixture Control*
*Appiication diagram applies for fixtures with eldoLED drivers only.

nPS 80 EZ Dimming/Control Pack (qty: 2 required)
nPODM 2P DX Dual On/Off/Dim Push-Button WallPod
nCM ADCX Daylight Sensor with Automatic Dimming Control
nCM PDT 9 Dual Technology Occupancy Sensor

Description: This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in Row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.

WIRING KEY

CAT-5e Cable (A)	Line Power (B)	Low Voltage Dimming Wires (C)
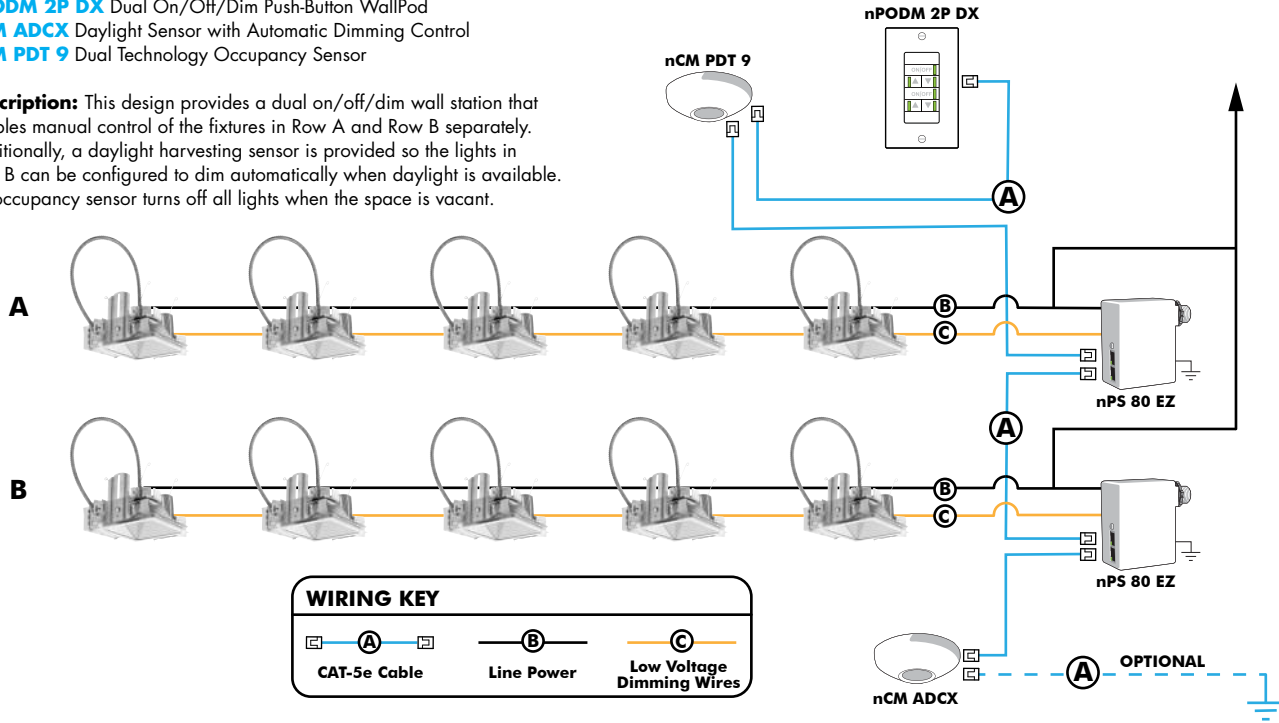
Choose Wall Controls
nLight offers multiple styles of wall controls - each with varying features and user experience.

Push-Button Wallpod
Traditional tactile buttons and LED user feedback

Graphic Wallpod
Full color touch screen provides a sophisticated look and feel

nLight® Wired Controls Accessories:

WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
Photocell controls	**Model Number**	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	**Cat-5 cables (plenum rated)**	**Model Number**
		10', CAT5 10FT	CAT5 10FT J1
		15, CAT5 15FT	CAT5 15FT J1

nLight® AIR Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH[1]

Notes
1   Can only be ordered with the RES7Z zone control sensor version.

nLight AIR
nLight AIR is the ideal solution for retrofit or new construction spaces where adding communication is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each Lithonia LDN Luminaire. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

Simple as 1,2,3
1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome
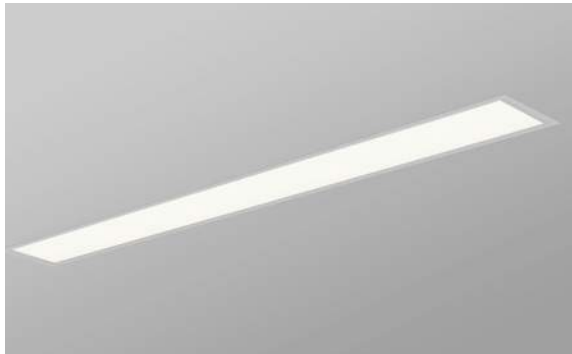
nLight AIR rPODB 2P DX   Mobile Device

LITHONIA LIGHTING®

LDN6SQ

VIA 4 SEAL

RECESSED
DIRECT
STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

LUMENWERX

5 YEAR WARRANTY

Project: _____
_____

Type: _____

DESCRIPTION

Sealed with silicone gaskets, Via Seal fixtures are intended for wet locations and can be pendant, surface, wall, or recessed mounted. They can act alone as discrete luminaires, or be arranged in continuous lines or patterns. Via 4 Seal is suitable for wet locations where temperatures are moderate and in which spaces are regularly wiped down and frequently in contact with debris and/or moisture. The fixture can be used to create continuous, unbroken lines of light. Via 4 Seal is also offered as Wet Listed certified by ETL (Electrical Testing Laboratories), in which case, it is able to withstand smaller particles of debris and light water infiltration. Via 4 Seal Wet Listed can also be used to create continuous lines of light, but with subtle breaks at 12-foot increments. See separate spec sheets for patterns and other available mountings.

LEVEL 1   LEVEL 2

IC RATED   **Up to 113 lm/W performance**

Order Guide

LUM. ID	DISTRIB.	ENVIRONMENT [1]	OPTIC	LIGHT SOURCE [4]	CRI
V4SEALR	**D**				
V4SEALR - Via 4" Seal Recessed	**D** - Direct	**WET [2]** - Wet Suitable (IP44) **WETL [2][3]** - Wet Listed (IP54) [1] See page 2 for more information on each environment option. [2] Suitable for outdoor environments only when installed under canopy. Not suitable for extreme weather environments. Consult factory for low temperature applications. [3] Can be slightly exposed to water. A minimal shadow line visible at every 12'.	**EPDO** - Environmentally Protected Direct Optic **ASDO** - Asymmetric Soft Direct Optic	**SW** - Static white **BIOSST** - Static biologically-optimized lighting **BIOSDY** - Dynamic biologically-optimized lighting [4] Chromawerx Sola and Duo also available. Consult other spec sheet.	**80** - 80 CRI **90 [5]** - 90 CRI [5] Not available with BIOS.

LUMEN PACKAGE	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE	DRIVER [10]
500 - Low output 500 lm/ft **750 [6]** - Medium output 750 lm/ft **1000 [6]** - High output 1000 lm/ft [6] Not available with BIOS.	**27 [7]** - 2700K **30** - 3000K **35** - 3500K **40** - 4000K **50 [7]** - 5000K [7] Not available with BIOS.	**#FT#IN [8]** - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' - 12' Continuous runs: lengths over 12' [8] With **BIOSDY**, specify in 2' increments only.	**120** - 120V **277** - 277V **UNV** - 120V-277V **347 [9]** - 347V [9] Available with D1 only.	**D1** - 1% 0-10V **DA [11]** - DALI **LTEA2W** - Lutron 1% - 2 wire FP 120V **LDE1 [11]** - Lutron Hi-lume 1% Eco **LDE5 [11]** - Lutron 5% EcoSystem **ELD1** - eldoLED 1% ECOdrive **ELD0** - eldoLED 0.1% SOLOdrive [10] PoE (Power-over-Ethernet) compatible. Consult factory for details. [11] On-site commissioning is required.

ELECTRICAL	EMERGENCY SECTIONS (optional) [16][17]	MOUNTING	FINISH	POWER FEED	OPTION
1C - 1 circuit **#MC [12] -** Multi circuit **EC -** Emergency fixture **NL -** Night light fixture **GTD [13][14][15] -** Generator transfer device fixture [12] Specify total number of circuits (#), including any circuits required for optional emergency sections. Provide drawing or layout specifications. Minimum 4' section per circuit. [13] Minimum 4' fixture. [14] Not available with 347V. [15] Not available for environments where the ambient temperature falls below 0°C (32°F).	**#EC## [18] -** Emergency light section **#NL## [18] -** Night light section **#GTD## [18][19][20][21] -** Generator transfer device section **#EMB [20][21][22] -** Emergency battery [16] Specify with multi circuit (#MC) electrical option only. [17] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [18] Specify quantity (#), and section length in feet (##). [19] Minimum 4' section. [20] Not available with 347V. [21] Not available for environments where the ambient temperature falls below 0°C (32°F). [22] Specify quantity (#). Each battery powers a 4' section.	**TG9** - Tegular 9/16" **TG15** - Tegular 15/16" **TB9** - T-bar 9/16" **TB15** - T-bar 15/16" **ST** - Screw slot T-bar **DTR** - Drywall trim **DTL** - Drywall trimless **DMF** - Drywall mud flange	**W** - Matte white **AL** - Aluminum **WA** - White antimicrobial Silverwerx **CF#** - Custom finish, specify RAL#	**TF** - Top feed **EF** - End feed	**NAT** - Natatorium finish **CRF** - Corrosion-resistant finish

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

ETL LISTED Intertek

VIA4SEAL-RECESSED-SPEC-REV0   December 15, 2020

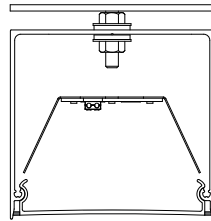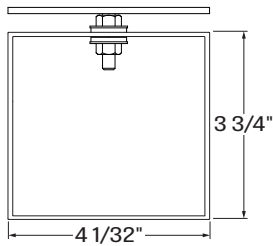bios   PoE   WELL   WELL

VIA 4 SEAL

RECESSED
DIRECT
STATIC WHITE, BIOS ST/DY
VIA WEATHER SERIES
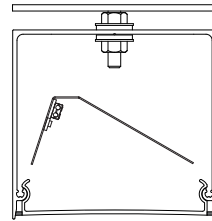
LUMENWERX

Project: _____

_____

Type: _____

Section Views

EPDO

ASDO

3 3/4"

4 1/32"

Environment Options

The Via Weather Series offers four levels of protective sealing: Level 1, Level 2, Level 3, and Level 4.
Via 4 Seal is available with two environment options: Wet Suitable (WET) at Level 1, and Wet Listed (WETL) at Level 2.
For other levels of protective sealing, please see Via Wet spec sheets for Level 3, and Via Splash spec sheets for Level 4.

FEATURES	Wet Suitable (IP44) (WET)	Wet Listed (IP54) (WETL)
Indoor application that requires wipe down	●	●
Healthcare application	●	●
Outdoor application with restrictions: under canopy only	●	●
Outdoor application with restrictions: under canopy, slightly exposed	x	●
Continuous line of light over 12 ft	●	x
Water and dust resistant	●	●
Water and dust protected	x	●
Not suitable for extreme weather applications	●	●
Damp listed	●	x
Wet listed	x	●

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

ETL LISTED Intertek

bios   PoE Powered Ethernet   WELL   WELL

VIA 4 SEAL

RECESSED
DIRECT
STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES
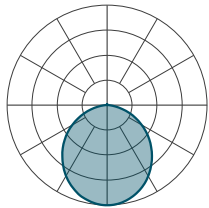
Photometrics

LUMENWERX

Project: _____

_____

Type: _____

MULTIPLIER TABLES

Please follow the multiplier tables to ensure correct lumen value. Lensing, CCT and CRI, will change the lumen output.

Multiplier - CCT/CRI

CCT (K)	Watts		LPW	
	CRI80	CRI90	CRI80	CRI90
2700	1.06	1.27	0.94	0.79
3000	1.02	1.23	0.98	0.81
3500	1.00	1.19	1.00	0.84
4000	1.00	1.18	1.00	0.85
5000	0.95	1.12	1.05	0.89

EPDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
500	2000	19.8	101
750	3000	30.7	98
1000	4000	42.3	95
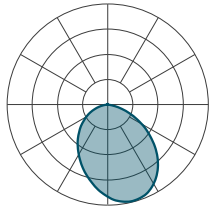
ASDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
500	2000	17.7	113
750	3000	27.9	107
1000	4000	39	103

ETL LISTED Intertek

bios PoE WELL WELL

VIA 4 SEAL

RECESSED
DIRECT
STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

LUMENWERX

Project: _____

_____

Type: _____

Technical Specifications

OPTICS

Environmentally Protected Direct Optic (EPDO)
The Environmentally Protected Direct Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. This extruded snap-in lens has a gasket to ensure proper sealing. The lens is 1/16" thick and made of frosted polycarbonate. Internally, white, side kicking reflectors guide the light through the lens. The EPDO suits moderate climate environments.

Asymmetric Soft Direct Optic (ASDO)
The Asymmetric Soft Direct Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. This extruded snap-in lens has a gasket to ensure proper sealing. The lens is 1/16" thick and made of frosted polycarbonate. Internally, white, side kicking reflectors specifically angled to guide the light through the lens to create a nice asymmetric distribution. The ASDO suits moderate climate environments.

LIGHT SOURCE
Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K and 5000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.
All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being.
The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.

BIOS 3500K
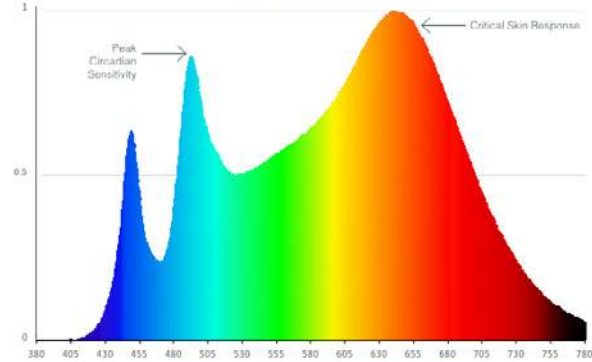
WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:
- Feature 54 or L03 when BIOS LED is selected
- Feature 55 or L04 meets WELL glare category (c-d) (not applicable with 1000 lm/ft)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.

WELL for Mind -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information, please contact well@lumenwerx.com

Intertek

bios   PoE   WELL   WELL

VIA 4 SEAL

RECESSED
DIRECT
STATIC WHITE, BIOS ST/DY
VIA WEATHER SERIES

# LUMENWERX

Project: _____

_____

Type: _____

LUMINAIRE LENGTH

Via 4 Seal is available in standard lengths of 2' to 12'. Continuous runs are available for run lengths over 12'. Exact run length must be noted in the product code. The minimum length is 2' and can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx joiner kits are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

JOINING SYSTEM

All individual sections are joined together onsite using the ¼"-20 screws and nuts provided. With the Wet Suitable (WET) option, the junction between two adjacent sections creates a continuous line of light without shadows. With the Wet Listed (WETL) option, the junction between two adjacent sections is sealed with a silicone gasket, creating a slight visible break in the line of light every 12 ft.

Wet Suitable - WET
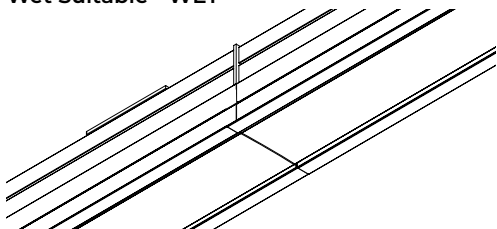
Continuous line of light

Wet Listed - WETL
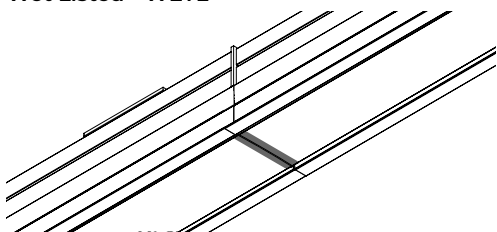
Visible break in line of light

LUMINAIRE MAINTENANCE

LED arrays and drivers are accessible through the optical chamber and easily replaced.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), Lutron 5-Series (5% Ecosystem), eldoLED 1% ECOdrive, eldoLED 0.1% SOLOdrive, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

EMERGENCY OPTIONS

Emergency and battery section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional emergency sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Emergency sections

Options for emergency sections include emergency light (#EC##), night light (#NL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in feet (##).

Example 1: A 32' Direct fixture with two 8' emergency light sections on a second circuit.
Code: 2MC-2EC8

Example 2: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD4

Battery

Each emergency battery (#EMB) powers a 4' section. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours. Suited for ambient temperatures of 0°C (32°F) to 55°C (131°F).

Generator Transfer Device (GTD)

A UL924 listed shunt relay that can bypass both line voltage (120-277V) and a 0-10V dimming signal. Suited for ambient temperatures of 0°C (32°F) to 60°C (140°F).
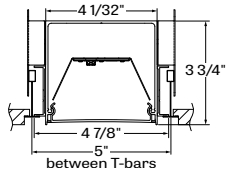
3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Intertek

bios   PoE   WELL   WELL

VIA 4 SEAL

RECESSED
DIRECT
STATIC WHITE, BIOS ST/DY
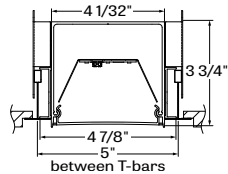
VIA WEATHER SERIES

LUMENWERX

Project: _____

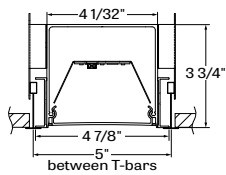_____

Type: _____

MOUNTING OPTIONS

Recessed mount into exposed or concealed T-bar or tegular ceiling.
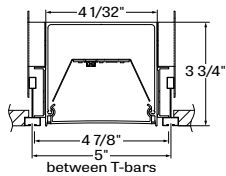

TG9 - Tegular 9/16"   **TG15** - Tegular 15/16"
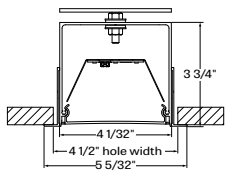
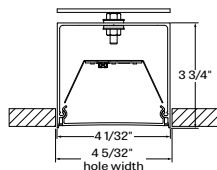**TB9** - T-bar 9/16"   **TB15** - T-bar 15/16"
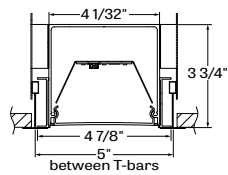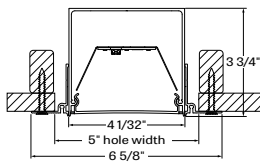
ST - Screw slot T-bar

Recessed mount in drywall ceilings with trim, trimless, or mud flange options.

DTR - Drywall trim   **DTL** - Drywall trimless

DMF - Drywall mud flange

FINISH

Interior - 95%, reflective matte powder coated white paint
Exterior - Powder-coat paint in matte white or aluminum. Custom finishes are also available. Optional antimicrobial finish.

CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content
Interior brackets - Die-formed cold rolled sheet steel 18 gauge thick
Joining system (WETL) - 16 gauge steel joiners and closed-cell silicone foam joiner gasket
Reflectors - Cold rolled steel 0.024" thick precisely die-formed, 95% reflective matte white painted
Recessed flanges - Extruded aluminum (0.060" nominal) up to 90% recycled content
Mud flange - Extruded aluminum (0.060" nominal) up to 90% recycled content
End cap - Die-cast aluminum (0.100" nominal)
End cap gasket - 1/16" closed-cell silicone foam
Mounting bracket - 1/8" thick aluminum, stainless steel PEM stud, and steel and neoprene sealing washer

WEIGHT

Via 4 Seal 4ft - 15.0 lbs - 6.8 kg
Via 4 Seal 8ft - 27.6 lbs - 12.5 kg
Via 4 Seal 12ft - 40.1 lbs - 18.2 kg

CERTIFICATIONS

ETL - WET environment option is rated for dry/damp locations. WETL environment option is ETL Wet Listed. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0. During the installation of WETL fixtures, the contractor is responsible for properly sealing all mounting and electrical connection points.
IC rated - Suitable for direct contact with insulation.

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.
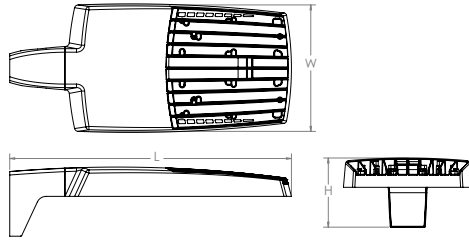
ETL LISTED Intertek

bios   PoE   WELL   WELL

RSX2 LED
Area Luminaire

Catalog Number

Notes

Type

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

Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX2 delivers 11,000 to 31,000 lumens allowing it to replace 250W to 1000W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

Specifications

EPA (ft²@0°): 0.69 ft² (0.06 m²)

Length: 29.3" (74.4 cm) (SPA mount)

Width: 13.4" (34.0 cm)

Height: 3.0" (7.6 cm) Main Body
7.2" (18.3 cm) Arm

Weight: (SPA mount) 30.0 lbs (13.6 kg)

Ordering Information

EXAMPLE: RSX2 LED P6 40K R3 MVOLT SPA DDBXD

RSX2 LED

Series	Performance Package	Color Temperature		Distribution		Voltage		Mounting	
RSX2 LED	P1 P2 P3 P4 P5 P6	30K 40K 50K	3000K 4000K 5000K	R2 R3 R3S R4 R4S R5 R5S AFR AFRR90 AFRL90	Type 2 Wide Type 3 Wide Type 3 Short Type 4 Wide Type 4 Short Type 5 Wide [1] Type 5 Short [1] Automotive Front Row Automotive Front Row Right Rotated Automotive Front Row Left Rotated	MVOLT HVOLT XVOLT **(use specific voltage for options as noted)** 120 [3] 208 [3] 240 [3]	(120V-277V) [2] (347V-480V) [3] (277V-480V) [4] 277 [5] 347 [5] 480 [5]	SPA RPA MA IS WBA WBASC AASP AARP AAWB AAWSC	Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°) Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) Mast arm adaptor (fits 2-3/8" OD horizontal tenon) Adjustable slipfitter (fits 2-3/8" OD tenon) [6] Wall bracket [1] Wall bracket with surface conduit box Adjustable tilt arm square pole mounting [6] Adjustable tilt arm round pole mounting [6] Adjustable tilt arm with wall bracket [6] Adjustable tilt arm wall bracket and surface conduit box [6]

Options

Shipped Installed

HS	House-side shield [7]
PE	Photocontrol, button style [8,9]
PEX	Photocontrol external threaded, adjustable [9,10]
PER7	Seven-wire twist-lock receptacle only (no controls) [9,11,12,13]
CE34	Conduit entry 3/4"NPT (Qty 2)
SF	Single fuse (120, 277, 347) [5]
DF	Double fuse (208, 240, 480) [5]
SPD20KV	20KV Surge pack (10KV standard)
FAO	Field adjustable output [9,13]
DMG	0-10V dimming extend out back of housing for external control (control ordered separate) [9,13]
DS	Dual switching [9,14]

Shipped Installed

*Standalone and Networked Sensors/Controls (factory default settings, see table page 9)

NLTAIR2	nLight AIR generation 2 [13,15,16]
PIRHN	Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) [13,14,17]

*Note: PIRHN with nLight Air can be used as a standalone dimming sensor with out-of-box settings or as a wireless networked solution. See factory default settings table. Sensor coverage pattern is affected when luminaire is tilted.

Shipped Separately (requires some field assembly)

EGS	External glare shield [6]
EGFV	External glare full visor (360° around light aperture) [7]
BS	Bird spikes [18]

Finish

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured Dark Bronze
DBLBXD	Textured Black
DNATXD	Textured Natural Aluminum
DWHGXD	Textured White

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com
© 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED
Rev. 02/24/21
Page 1 of 9

Ordering Information

Accessories
Ordered and shipped separately.

RSX2HS	RSX2 House side shield (includes 2 shields)
RSX2EGS (FINISH) U	External glare shield (specify finish)
RSX2HSAFRR (FINISH) U	RSX2 House side shields for AFR rotated optics (includes 2 shields)
RSX2EGFV (FINISH) U	External glare full visor (specify finish)
RSXRPA (FINISH) U	RSX Universal round pole adaptor plate (specify finish)
RSXWBA (FINISH) U	RSX WBA wall bracket (specify finish) [1]
RSXSCB (FINISH) U	RSX Surface conduit box (specify finish, for use with WBA, WBA not included)
DLL127F 1.5 JU	Photocell –SSL twist-lock (120-277V) [19]
DLL347F 1.5 JU	Photocell –SSL twist-lock (347V) [19]
DLL480F 1.5 CUL JU	Photocell –SSL twist-lock (480V) [19]
DSHORT SBK U	Shorting cap [19]

NOTES
1. Any Type 5 distribution, is not available with WBA.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
3. HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
4. XVOLT driver operates on any line voltage from 277V-480V (50/60 Hz). XVOLT not available with fusing (SF or DF) and not available with PE or PEX.
5. Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
6. Maximum tilt is 90° above horizontal.
7. It may be ordered as an accessory.
8. Requires MVOLT or 347V.
9. Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, DS, PIRHN).
10. Requires 120V, 208V, 240V, or 277V.
11. Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use.
12. For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010.
13. Two or more of the following options cannot be combined including DMG, DS, PER7, FAO and PIRHN.
14. DS only available on performance package P5 and P6.
15. Must be ordered with PIRHN.
16. Requires MVOLT or HVOLT.
17. Must be ordered with NLTAIR2. For additional information on PIRHN visit here.
18. Must be ordered with fixture for factory pre-drilling.
19. Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

External Shields
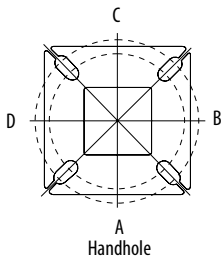
House Side Shield

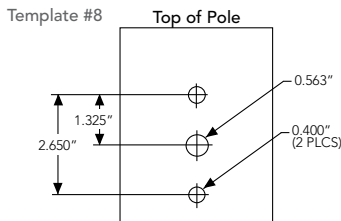**External Glare Shield**

External 360 Full Visor

Pole/Mounting Informatiion

Accessories including bullhorns, cross arms and other adpaters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit Accessories.
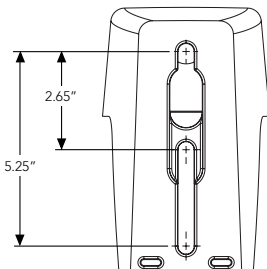
HANDHOLE ORIENTATION

```
        C
    D       B
        A
    Handhole
```

RSX POLE DRILLING
Template #8

Top of Pole

0.563"
1.325"
2.650"
0.400" (2 PLCS)

RSX STANDARD ARM & ADJUSTABLE ARM

2.65"
5.25"

Round Tenon Mount - Pole Top Slipfitters

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

Drill/Side Location by Configuration Type

Drilling Template	Mounting Option	Single	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
	Head Location	Side B	Side B & D	Side B & C	Round Pole Only	Side B, C & D	Side A, B, C & D
#8	Drill Nomenclature	DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS

RSX2 - 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	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
Mounting Type	Tilt									
SPA - Square Pole Adaptor	0°	0.69	1.22	1.27	1.8	1.61	2.39	1.37	2.06	2.74
RPA - Round Pole Adaptor		0.74	1.27	1.37	1.9	1.71	2.49	1.42	2.16	2.84
MA - Mast Arm Adaptor		0.61	1.14	1.11	1.64	1.45	2.23	1.29	1.9	2.58
IS - Integral Slipfitter AASP/AARP - Adjustable Arm Square/Round Pole	0°	0.69	1.22	1.27	1.8	1.61	2.39	1.37	2.06	2.74
	10°	0.53	1.06	1.05	1.58	1.37	2.08	1.06	1.59	2.12
	20°	0.52	1.02	1.03	1.52	1.33	2.02	1.03	1.55	2.07
	30°	0.64	1.11	1.18	1.63	1.45	2.21	1.27	1.91	2.54
	40°	0.81	1.21	1.35	1.74	1.65	2.39	1.62	2.43	3.23
	45°	0.91	1.25	1.5	1.81	1.75	2.48	1.82	2.73	3.64
	50°	1.34	1.83	2.17	2.61	2.56	3.62	2.68	4.02	5.36
	60°	2.2	2.97	3.57	4.24	4.17	5.89	4.41	6.61	8.82
	70°	2.86	4.13	4.7	5.89	5.71	8.21	5.71	8.57	11.42
	80°	3.4	5.13	5.67	7.34	7.09	10.21	6.79	10.19	13.59
	90°	3.85	5.96	6.55	8.58	8.31	11.88	7.70	11.56	15.41

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com
© 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED
Rev. 02/24/21
Page 2 of 9

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RSX Area homepage.

Isofootcandle plots for the RSX2 LED P6 40K. Distances are in units of mounting height (30').

LEGEND
- 0.1 fc
- 0.5 fc
- 1.0 fc
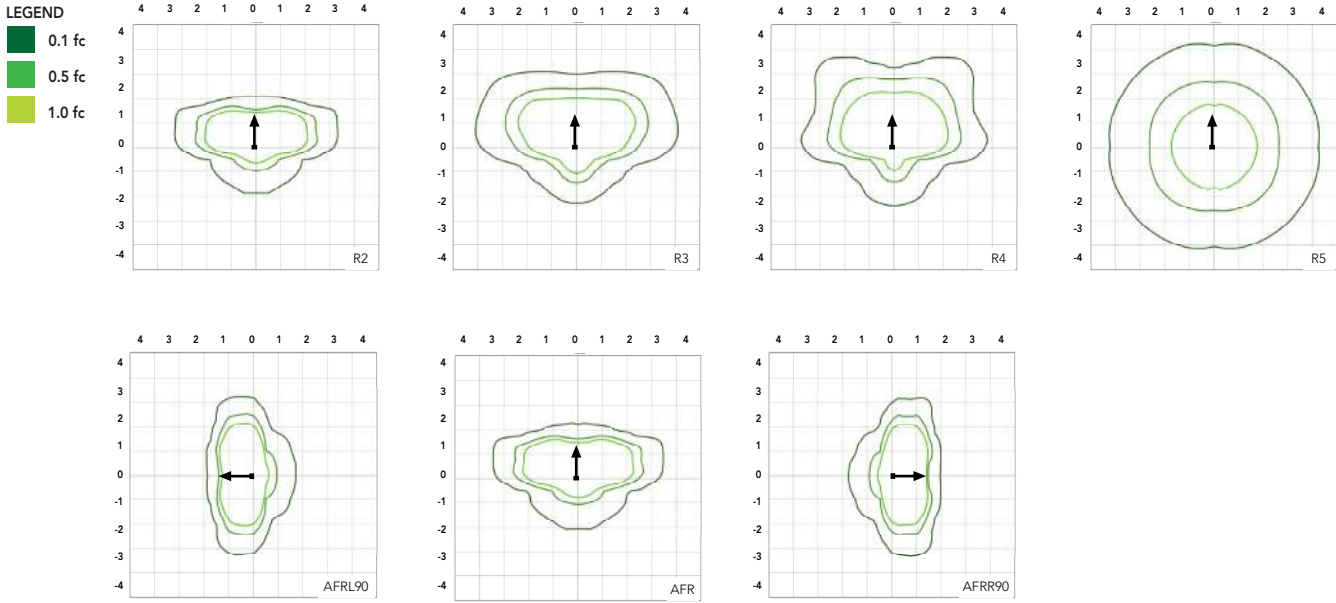
Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97
45°C	113°F	0.96
50°C	122°F	0.95

Electrical Load

Performance Package	System Watts (W)	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	71W	0.59	0.34	0.30	0.26	0.20	0.15
P2	111W	0.93	0.53	0.46	0.40	0.32	0.23
P3	147W	1.23	0.70	0.61	0.53	0.42	0.31
P4	187W	1.55	0.90	0.78	0.68	0.53	0.38
P5	210W	1.75	1.01	0.87	0.76	0.60	0.44
P6	244W	2.03	1.17	1.01	0.88	0.70	0.51

Projected LED Lumen Maintenance

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.97	>0.95	>0.92

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

## 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	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	71W	R2	10,040	2	0	1	139	11,031	2	0	1	153	11,031	2	0	1	153
		R3	10,005	2	0	2	141	10,992	2	0	2	155	10,992	2	0	2	155
		R3S	10,271	2	0	2	143	11,285	2	0	2	157	11,285	2	0	2	157
		R4	10,136	2	0	2	143	11,136	2	0	2	157	11,136	2	0	2	157
		R4S	9,779	2	0	2	138	10,744	2	0	2	151	10,744	2	0	2	151
		R5	10,271	4	0	2	145	11,285	4	0	2	159	11,285	4	0	2	159
		R5S	10,544	3	0	1	149	11,585	3	0	2	163	11,585	3	0	2	163
		AFR	10,026	2	0	1	141	11,016	2	0	1	155	11,016	2	0	1	155
		AFRR90	10,122	3	0	2	140	11,121	3	0	2	154	11,121	3	0	2	154
		AFRL90	10,164	3	0	2	141	11,167	3	0	2	155	11,167	3	0	2	155
P2	111W	R2	15,712	2	0	2	138	17,263	2	0	2	151	17,263	2	0	2	151
		R3	15,657	2	0	3	141	17,202	3	0	3	155	17,202	3	0	3	155
		R3S	16,075	2	0	2	141	17,661	2	0	2	155	17,661	2	0	2	155
		R4	15,862	2	0	3	143	17,427	2	0	3	157	17,427	2	0	3	157
		R4S	15,304	2	0	2	138	16,815	2	0	2	151	16,815	2	0	2	151
		R5	16,075	4	0	2	145	17,661	5	0	3	159	17,661	5	0	3	159
		R5S	16,502	4	0	2	149	18,130	4	0	2	163	18,130	4	0	2	163
		AFR	15,691	2	0	2	141	17,240	2	0	2	155	17,240	2	0	2	155
		AFRR90	15,841	3	0	3	139	17,404	4	0	3	153	17,404	4	0	3	153
		AFRL90	15,907	3	0	3	139	17,477	4	0	3	153	17,477	4	0	3	153
P3	147W	R2	19,855	3	0	2	132	21,814	3	0	2	145	21,814	3	0	2	145
		R3	19,785	3	0	3	135	21,737	3	0	4	148	21,737	3	0	4	148
		R3S	20,312	3	0	3	135	22,317	3	0	3	149	22,317	3	0	3	149
		R4	20,044	3	0	3	136	22,022	3	0	4	150	22,022	3	0	4	150
		R4S	19,339	3	0	3	132	21,247	3	0	3	145	21,247	3	0	3	145
		R5	20,313	5	0	3	138	22,317	5	0	3	152	22,317	5	0	3	152
		R5S	20,852	4	0	2	142	22,910	4	0	2	156	22,910	4	0	2	156
		AFR	19,828	3	0	2	135	21,785	3	0	2	148	21,785	3	0	2	148
		AFRR90	20,017	4	0	3	133	21,992	4	0	3	147	21,992	4	0	3	147
		AFRL90	20,101	4	0	3	134	22,084	4	0	3	147	22,084	4	0	3	147
P4	187W	R2	22,836	3	0	2	120	25,090	3	0	2	132	25,090	3	0	2	132
		R3	22,756	3	0	4	122	25,002	3	0	4	134	25,002	3	0	4	134
		R3S	23,363	3	0	3	123	25,668	3	0	3	135	25,668	3	0	3	135
		R4	23,054	3	0	4	123	25,329	3	0	4	135	25,329	3	0	4	135
		R4S	22,243	3	0	3	119	25,059	3	0	3	134	25,059	3	0	3	134
		R5	23,363	5	0	3	125	25,669	5	0	4	137	25,669	5	0	4	137
		R5S	23,983	4	0	2	128	26,350	4	0	2	141	26,350	4	0	2	141
		AFR	22,806	3	0	2	122	25,056	3	0	2	134	25,056	3	0	2	134
		AFRR90	23,023	4	0	3	121	25,295	4	0	3	133	25,295	4	0	3	133
		AFRL90	23,120	4	0	3	122	25,401	4	0	3	134	25,401	4	0	3	134
P5	210W	R2	26,141	3	0	2	122	28,721	3	0	2	135	28,721	3	0	2	135
		R3	26,049	3	0	4	124	28,620	3	0	4	136	28,620	3	0	4	136
		R3S	26,744	3	0	3	125	29,383	3	0	4	138	29,383	3	0	4	138
		R4	26,390	3	0	4	126	28,994	3	0	4	138	28,994	3	0	4	138
		R4S	25,462	3	0	3	121	27,974	3	0	3	133	27,974	3	0	3	133
		R5	26,744	5	0	4	127	29,383	5	0	4	140	29,383	5	0	4	140
		R5S	27,454	4	0	2	131	30,163	4	0	2	144	30,163	4	0	2	144
		AFR	26,106	3	0	2	124	28,682	3	0	2	137	28,682	3	0	2	137
		AFRR90	26,354	4	0	3	123	28,955	5	0	3	136	28,955	5	0	3	136
		AFRL90	26,465	4	0	3	124	29,077	5	0	3	136	29,077	5	0	3	136
P6	244W	R2	27,646	3	0	2	112	30,374	3	0	2	123	30,374	3	0	2	123
		R3	27,549	3	0	4	113	30,267	3	0	4	124	30,267	3	0	4	124
		R3S	28,283	3	0	3	115	31,075	3	0	4	126	31,075	3	0	4	126
		R4	27,909	3	0	4	114	30,663	3	0	4	126	30,663	3	0	4	126
		R4S	26,928	3	0	3	110	29,585	3	0	3	121	29,585	3	0	3	121
		R5	28,284	5	0	4	116	31,075	5	0	4	127	31,075	5	0	4	127
		R5S	29,035	4	0	2	119	31,900	5	0	3	131	31,900	5	0	3	131
		AFR	27,608	3	0	2	112	30,332	3	0	2	123	30,332	3	0	2	123
		AFRR90	27,872	4	0	3	113	30,622	5	0	3	124	30,622	5	0	3	124
		AFRL90	27,989	4	0	3	113	30,751	5	0	3	125	30,751	5	0	3	125

LITHONIA LIGHTING

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com
© 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

COMMERCIAL OUTDOOR

Lithonia RSX2 Area LED
Rev. 02/24/21
Page 4 of 9

Dimensions & Weights

Luminaire Weight by Mounting Type

| Mounting Configuration	Total Luminaire Weight
SPA	30 lbs
RPA	32 lbs
MA	30 lbs
WBA	33 lbs
WBASC	36 lbs
IS	33 lbs
AASP	33 lbs
AARP	35 lbs
AAWB	36 lbs
AAWSC	39 lbs

RSX2 with Round Pole Adapter (RPA)
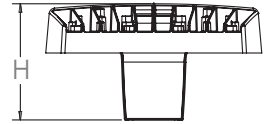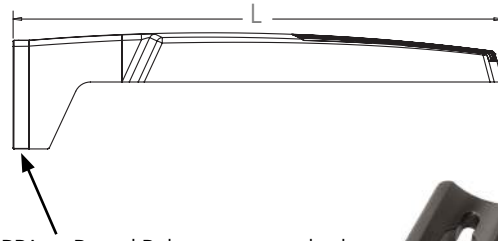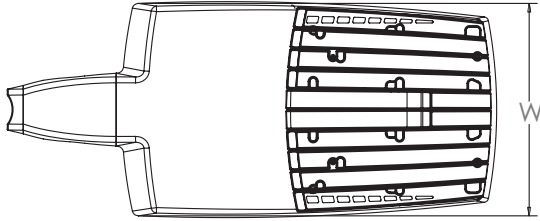
Length: 30.3" (77.0 cm)
Width: 13.4" (34.0 cm)
Height: 3.0" (7.6 cm) Main Body
7.2" (18.3 cm) Arm

Note: RPA — Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.

RSX2 with Mast Arm Adapter (MA)

7/16" locking thru bolt/nut provided
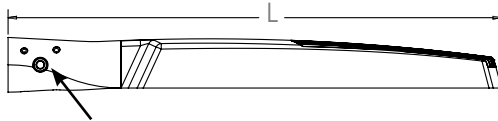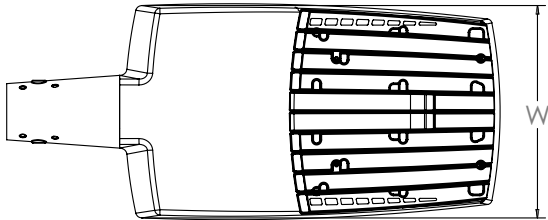
Length: 30.6" (77.7 cm)
Width: 13.4" (34.0 cm)
Height: 3.0" (7.6 cm) Main Body
3.5" (8.9 cm) Arm

RSX2 with Adjustable Slipfitter (IS)

7/8" KO - fits 1/2" NPT water- tight fitting
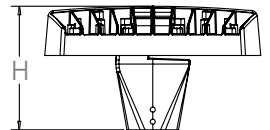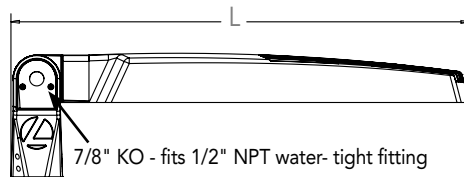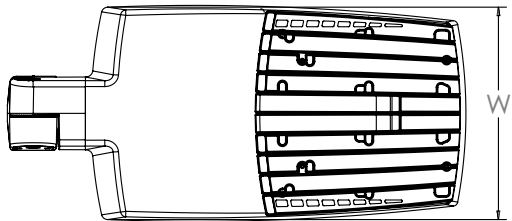
Length: 28.3" (71.9 cm)
Width: 13.4" (34.0 cm)
Height: 3.0" (7.6 cm) Main Body
7.6" (19.3 cm) Arm

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com
© 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED
Rev. 02/24/21
Page 5 of 9

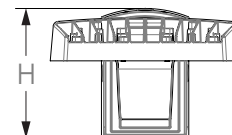### RSX2 with Wall Bracket (WBA)
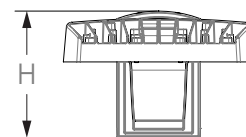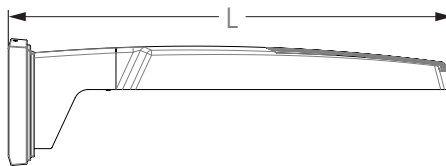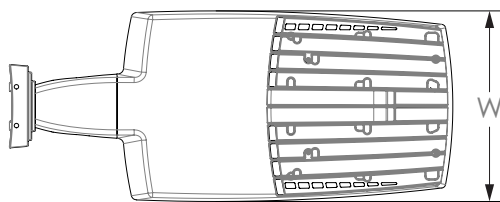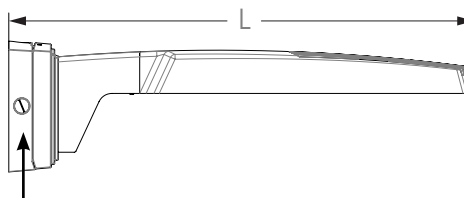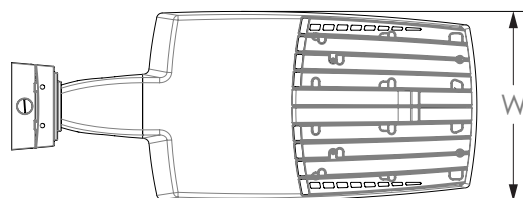
Length: 31.2" (79.2 cm)
Width: 13.4" (41.7 cm)
Height: 3.0" (7.6 cm) Main Body
        8.9" (22.6 cm) Arm
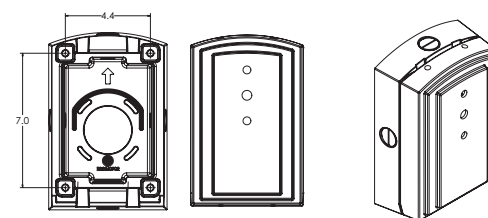
Wall Bracket (WBA) Mounting Detail

4.5

7.0
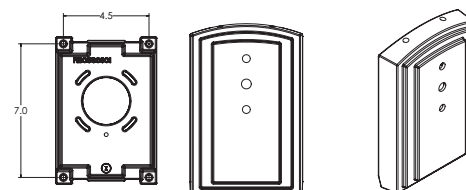
RSX2 with Wall Bracket with Surface Conduit Box (WBASC)
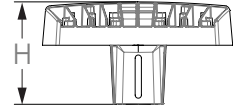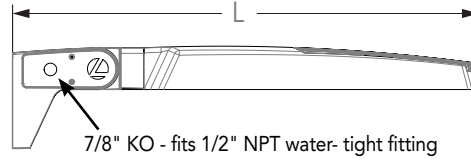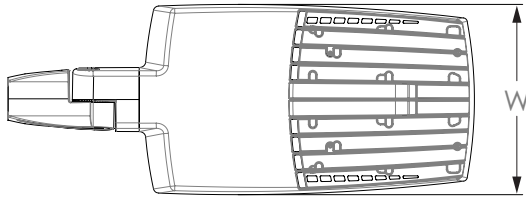
3/4" NPT taps with plugs - Qty (4) provided

Length: 32.8" (83.3 cm)
Width: 13.4" (41.7 cm)
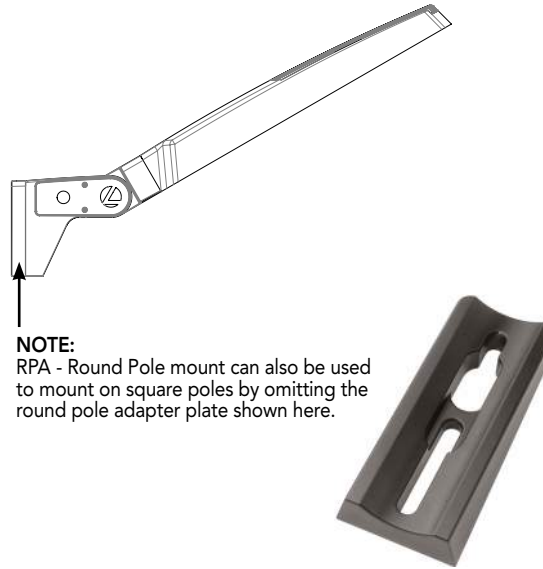Height: 3.0" (7.6 cm) Main Body
        9.2" (23.4 cm) Arm

Surface Conduit Box (SCB) Mounting Detail

4.4

7.0

LITHONIA LIGHTING

COMMERCIAL OUTDOOR

Dimensions

RSX2 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)

7/8" KO - fits 1/2" NPT water- tight fitting

Length: 32.8" (83.3 cm) **AASP**
         33.8" (85.9 cm) **AARP**
Width: 13.4" (34.0 cm)
Height: 3.0" (7.6 cm) Main Body
         7.2" (18.2 cm) Arm

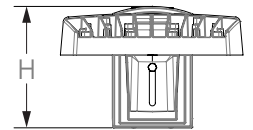**NOTE:**
RPA - Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.

Notes

AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°.

AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

RSX2 with Adjustable Tilt Arm with Wall Bracket (AAWB)

7/8" KO - fits 1/2" NPT water- tight fitting

Wall Bracket (WBA) Mounting Detail
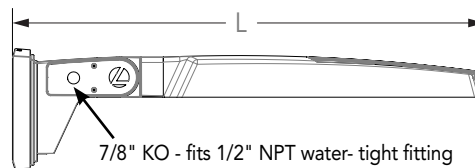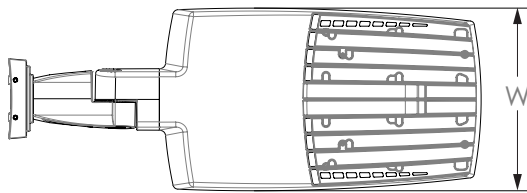
Length: 34.7" (88.0 cm)
Width: 13.4" (34.0 cm)
Height: 3.0" (7.6 cm) Main Body
         8.9" (22.6 cm) Arm

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com
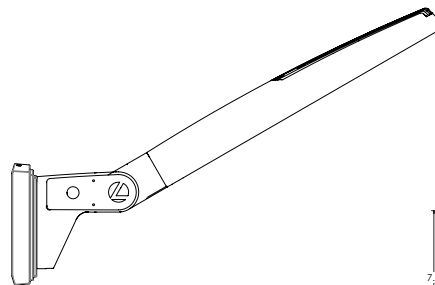
RSX2 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)

W

L

7/8" KO - fits 1/2" NPT water- tight fitting

H

3/4" NPT taps
with plugs - Qty (4)
provided

Surface Conduit Box (SCB) Mounting Detail

4.4

7.0

Length: 36.2" (91.9 cm)
Width: 13.4" (40.0 cm)
Height: 3.0" (7.6 cm) Main Body
          9.2" (23.4 cm) Arm
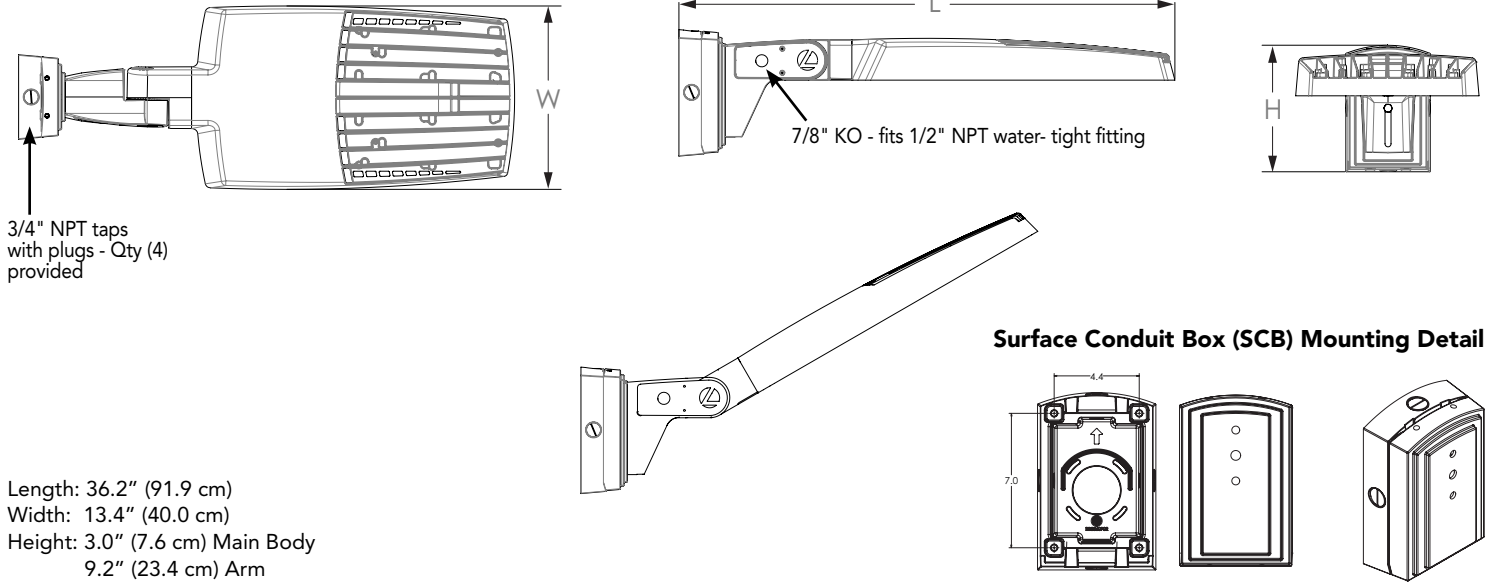
Additional Reference Drawings

1.4

Option CE34 Reference Dimensions

3.6
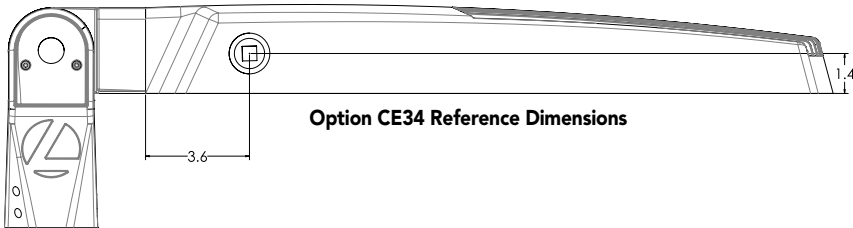
Automotive Front Row - Rotated Optics (AFRL90/R90)

AFRR90

AFRL90
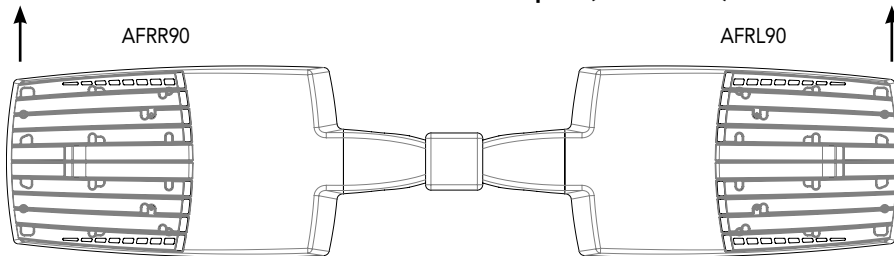
(Example: 2@180 - arrows indicate direction of light exiting the luminaire)

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com
© 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

LITHONIA LIGHTING
COMMERCIAL OUTDOOR

Lithonia RSX2 Area LED
Rev. 02/24/21
Page 8 of 9

Fixture 0D

nLight Control - Sensor Coverage and Settings

NLTAIR2 PIRHN nLight Sensor Coverage Pattern

nLight PIRHN

Top

Side

Motion Sensor Default Settings - Option PIRHN						
Option	Dimmed State (unoccupied)	High Level (when occupied)	Photocell Operation	Dwell Time (occupancy time delay)	Ramp-up Time (from unoccupied to occupied)	Ramp-down Time (from occupied to unoccupied)
NLTAIR2 PIRHN	Approx. 30% Output	100% Output	Enabled @ 1.5FC	7.5 minutes	3 seconds	5 minutes

*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is tilted.

FEATURES & SPECIFICATIONS

INTENDED USE
The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the one-for-one replacement of existing metal halide or high pressure sodium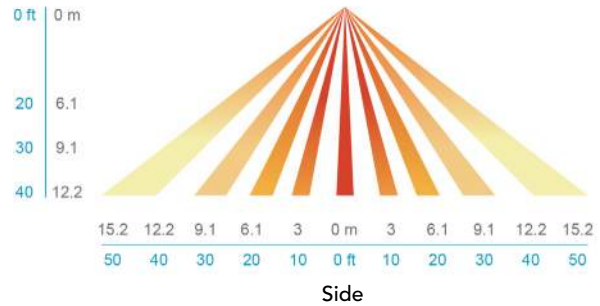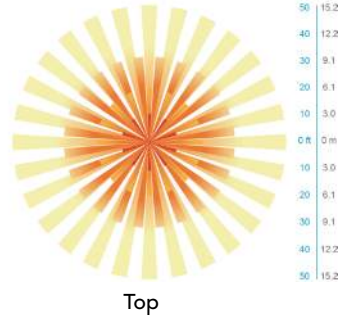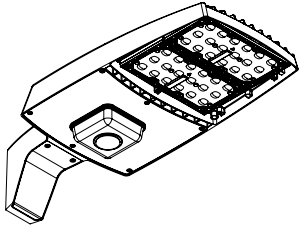 lighting. The RSX2 delivers 11,000 to 31,000 lumens and is ideal for replacing 250W to 1000W HID pole-mounted luminaires in parking lots and other area lighting applications.

CONSTRUCTION AND DESIGN
The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heat-dissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP66. The low-profile design results in a low EPA, allowing pole optimization. Vibration rated per ANSI C136.31: 3G Mountings: Include SPA, RPA, MA, IS, AASP, AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration.

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 superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel.

OPTICS
Precision acrylic refractive lenses are engineered for superior application efficiency, distributing the light to where it is needed most. Available in short and wide pattern distributions including Type 2, Type 3, Type 3S, Type 4, Type 4S, Type 5, Type 5S, AFR (Automotive Front Row) and AFR rotated AFRR90 and ARFL90.

ELECTRICAL
Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. LED lumen maintenance is >L92/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS
The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

nLIGHT AIR CONTROLS
The RSX 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 with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can be 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 "no-drill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a 2 3/8" horizontal mast arm or the "IS" option for an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

LISTINGS
CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. 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 3000K color temperature only.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/customer-support/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.

LITHONIA LIGHTING

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com
© 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

Lithonia RSX2 Area LED
Rev. 02/24/21
Page 9 of 9

LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — **These specifications are for USA standards only.** Square Straight Steel is a general purpose light pole for up to 39-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

CONSTRUCTION — **Pole Shaft:** The pole shaft is of uniform dimension and wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 55 KSI (11-gauge, .1196"), or 50 KSI (7-gauge, .1793"). Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5" and 6".

Pole Top: A flush non-metalic black top cap is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with PT option.

Handhole: A reinforced handhole with grounding provision is provided at 18" from the base on side A. Positioning the handhole lower may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. Every handhole includes a cover and cover attachment hardware. The handhole has a nominal dimension of 2.5" x 5".

Base Cover: A durable ABS plastic two-piece full base cover, finished to match the pole, is provided with each pole assembly. Additional base cover options are available upon request.

Anchor Base/ Bolts: Anchor base is fabricated from steel that meets ASTM A36 standards and can be altered to match existing foundations; consult factory for modifications. Anchor bolts are manufactured to ASTM F1554 Standards grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Top threaded portion (nominal 12") is hot-dipped galvanized per ASTM A-153.

HARDWARE – All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

FINISH – Extra durable standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

WARRANTY — 1-year limited warranty. 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. Specifications subject to change without notice.

Catalog Number	
Notes	
Type	

Anchor Base Poles

SSS

SQUARE STRAIGHT STEEL

See footnotes next page.

Fixture 0B (Pole)

SSS Square Straight Steel Poles

SSS

Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness[1]	Mounting[2]		Options	Finish[10]
SSS	10'-39' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) See technical information table for complete ordering information.)	4C 4" 11g (.1196") 4G 4" 7g (.1793") 5C 5" 11g (.1196") 5G 5" 7g (.1793") 6G 6" 7g (.1793") See technical information table for complete ordering information.)	**Tenon mounting** PT Open top (includes top cap) T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) **KAC/KAD/KSE/KSF/KVR/KVF Drill mounting**[3] DM19 1 at 90° DM28 2 at 180° DM28 PL 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° **CSX/DSX/RSX/AERIS™/OMERO™/ HLA/KAX Drill mounting**[3] DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90° **RAD drill mounting**[3] DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM32RAD 3 at 120° DM39RAD 3 at 90° DM49RAD 4 at 90° **ESX Drill mounting**[3] DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90°	**AERIS™ Suspend drill mounting**[3,4] DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90° **OMERO™ Suspend drill mounting**[3,4] DM19MRT_ 1 at 90° DM28MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90°	**Shipped installed** L/AB Less anchor bolts (Include when anchor bolts are not needed) VD Vibration damper TP Tamper resistant handhole cover fasteners HAxy Horizontal arm bracket (1 fixture)[5,6] FDLxy Festoon outlet less electrical[5] CPL12/xy 1/2" coupling[5] CPL34/xy 3/4" coupling[5] CPL1/xy 1" coupling[5] NPL12/xy 1/2" threaded nipple[5] NPL34/xy 3/4" threaded nipple[5] NPL1/xy 1" threaded nipple[5] EHHxy Extra handhole[5,7] MAEX Match existing[8] USPOM United States point of manufacture[9] IC Interior coating[10] UL UL listed with label (Includes NEC compliant cover) NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) **Shipped separately (replacement kit available)** (blank) FBC Full base cover (plastic) (blank) TC Top cap (blank) HHC Handhole cover	**Standard colors** DDBXD Dark bronze DWHXD White DBLXD Black DMBXD Medium bronze DNAXD Natural aluminum **Classic colors** DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue **Architectural Colors and Special Finishes**[11] Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes available.

NOTES:

1. Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-Gauge) in nomenclature. "C" - 0.1196 | "G" - 0.1793".
2. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20.
   The combination includes a required extra handhole.
3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
4. Insert "1" or "2" to designate fixture size; e.g. DM19AST**2**.
5. Specify location and orientation when ordering option.
   For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".
   Example: 5ft = 5 and 20ft 3in = 20-3
   For "y": Specify orientation from handhole (A,B,C,D)
   Refer to the Handhole Orientation diagram below.
   Example: 1/2" coupling at 5'8", orientation C = CPL12/5-8C
6. Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 2-3/8" O.D. If ordering two horizontal arm at the same height, specify with HAxyy. Example: HA20BD.
7. Combination of tenon-top and drill mount includes extra handhole.
8. Must add original order number of existing pole(s).
9. Use when mill certifications are required.
10. Provides enhanced corrosion resistance.
11. Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.

Catalog Number	Nominal Shaft Length (ft.)*	Pole Shaft Size (Base in. x Top in. x ft.)	Wall thick (in)	Gauge	EPA (ft²) with 1.3 gust						Bolt circle (in)	Bolt size (in. x in. x in.)	Approximate ship weight (lbs.)
					80 MPH	Max. weight	90 MPH	Max. weight	100 MPH	Max. weight			
SSS 10 4C	10	4.0 x 10.0	0.1196	11	30.6	765	23.8	595	18.9	473	8--9	3/4 x 18 x 3	75
SSS 12 4C	12	4.0 x 12.0	0.1196	11	24.4	610	18.8	470	14.8	370	8--9	3/4 x 18 x 3	90
SSS 14 4C	14	4.0 x 14.0	0.1196	11	19.9	498	15.1	378	11.7	293	8--9	3/4 x 18 x 3	100
SSS 16 4C	16	4.0 x 16.0	0.1196	11	15.9	398	11.8	295	8.9	223	8--9	3/4 x 18 x 3	115
SSS 18 4C	18	4.0 x 18.0	0.1196	11	12.6	315	9.2	230	6.7	168	8--9	3/4 x 18 x 3	125
SSS 20 4C	20	4.0 x 20.0	0.1196	11	9.6	240	6.7	167	4.5	150	8--9	3/4 x 18 x 3	140
SSS 20 4G	20	4.0 x 20.0	0.1793	7	14	350	11	275	8	200	8--9	3/4 x 30 x 3	198
SSS 20 5C	20	5.0 x 20.0	0.1196	11	17.7	443	12.7	343	9.4	235	10--12	1 x 36 x 4	185
SSS 20 5G	20	5.0 x 20.0	0.1793	7	28.1	703	21.4	535	16.2	405	10--12	1 x 36 x 4	265
SSS 25 4C	25	4.0 x 25.0	0.1196	11	4.8	150	2.6	100	1	50	8--9	3/4 x 18 x 3	170
SSS 25 4G	25	4.0 x 25.0	0.1793	7	10.8	270	7.7	188	5.4	135	8--9	3/4 x 30 x 3	245
SSS 25 5C	25	5.0 x 25.0	0.1196	11	9.8	245	6.3	157	3.7	150	10--12	1 x 36 x 4	225
SSS 25 5G	25	5.0 x 25.0	0.1793	7	18.5	463	13.3	333	9.5	238	10--12	1 x 36 x 4	360
SSS 30 4G	30	4.0 x 30.0	0.1793	7	6.7	168	4.4	110	2.6	65	8--9	3/4 x 30 x 3	295
SSS 30 5C	30	5.0 x 30.0	0.1196	11	4.7	150	2	50	--	--	10--12	1 x 36 x 4	265
SSS 30 5G	30	5.0 x 30.0	0.1793	7	10.7	267	6.7	167	3.9	100	10--12	1 x 36 x 4	380
SSS 30 6G	30	6.0 x 30.0	0.1793	7	19	475	13.2	330	9	225	11--13	1 x 36 x 4	520
SSS 35 5G	35	5.0 x 35.0	0.1793	7	5.9	150	2.5	100	--	--	10--12	1 x 36 x 4	440
SSS 35 6G	35	6.0 x 35.0	0.1793	7	12.4	310	7.6	190	4.2	105	11--13	1 x 36 x 4	540
SSS 39 6G	39	6.0 x 39.0	0.1793	7	7.2	180	3	75	--	--	11--13	1 x 36 x 4	605

TECHNICAL INFORMATION — EPA (ft2) with 1.3 gust

* EPA values are based ASCE 7-93 wind map. For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

BASE DETAIL
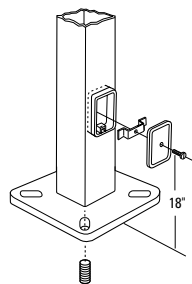
POLE DATA

Shaft base size	Bolt circle A	Bolt projection B	Base diameter C	Base plate thickness	Template description	Anchor bolt description	Anchor bolt and template number	Anchor bolt description
4"C	8" – 9"	3.25"- 3.75"	8"- 8.25"	0.75"	ABTEMPLATE PJ50004	AB18-0	ABSSS-4C	3/4"x18"x3"
4"G	8" – 9"	3.38"- 3.75"	8"- 8.25"	0.875"	ABTEMPLATE PJ50004	AB30-0	ABSSS-4G	3/4"x30"x3"
5"	10" – 12"	3.5"- 4"	11"	1"	ABTEMPLATE PJ50010	AB36-0	ABSSS-5	1"x36"x4"
6"	11" – 13"	4"- 4.50"	12.5"	1"	ABTEMPLATE PJ50011	AB36-0	N/A	1"x36"x4"
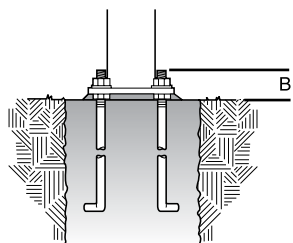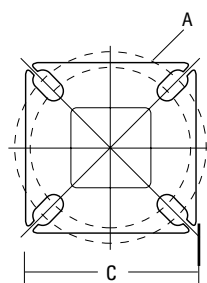
HANDHOLE ORIENTATION
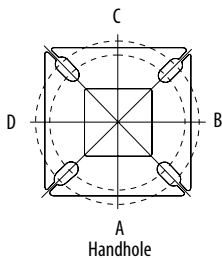
Default DM19 is on side B.

IMPORTANT INSTALLATION NOTES:
• **Do not** erect poles without having fixtures installed.
• Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
• If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
• Lithonia Lighting is not responsible for the foundation design.

WDGE2 LED
Architectural Wall Sconce

Catalog Number	
Notes	
Type	

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

Specifications

Depth (D1):	7 "
Depth (D2):	1.5 "
Height:	9 "
Width:	11.5 "
Weight: (without options)	13.5 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, providin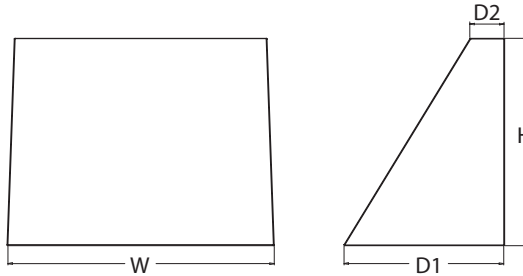g a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 delivers up to 6,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

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

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package		Color Temperature		CRI	Distribution		Voltage	Mounting	
WDGE2 LED	P1[1] P2[1] P3[1] P4[1] P5[1]	P1SW P2SW P3SW Door with small window (SW) is required to accommodate sensors. See page 2 for more details.	27K 30K 35K 40K 50K[2]	2700K 3000K 3500K 4000K 5000K	80CRI 90CRI	VF VW	Visual comfort forward throw Visual comfort wide	MVOLT 347[3] 480[3]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[7]	**Shipped separately** AWS 3/8inch Architectural wall spacer PBBW S urface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options

E4WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
PE[4]	Photocell, Button Type
DS[5]	Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)
DMG[6]	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.

Standalone Sensors/Controls (only available with P1SW, P2SW & P3SW)

PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls (only available with P1SW, P2SW & P3SW)

NLTAIR2 PIR	nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
NLTAIR2 PIRH	nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.

See page 4 for out of box functionality

Finish

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

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR
© 2019-2021 Acuity Brands Lighting, Inc. All rights reserved.

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

WDGE2 LED
Rev. 01/04/21

Fixture 0E

Accessories
Ordered and shipped separately.

|	
WDGEAWS DDBXD U	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PBBW DDBXD U	WDGE2 surface-mounted back box (specify finish)

NOTES
1. P1-P5 not available with sensors/controls. Sensors/controls only available with P1SW, P2SW and P3SW.
2. 50K not available in 90CRI
3. 347V and 480V not available with E4WH, E10WH, E20WC or DS.
4. PE not available in 480V or with sensors/controls
5. DS option not available with E4WH, E10WH, E20WC or sensors/controls.
6. DMG option not available with sensors/controls
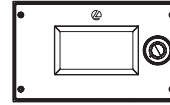7. Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
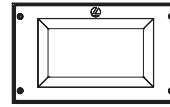
Default configuration with no sensors/controls.

Power Packages: P1, P2, P3, P4, P5
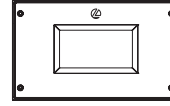
Small Window (SW) configuration

Power Packages: P1SW, P2SW, P3SW

Configuration with sensors/controls

Power Packages: P1SW, P2SW, P3SW

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
P1 / P1SW	10W	VF	1,166	119	0	0	0	1,209	123	0	0	0	1,251	128	0	0	0	1,256	128	0	0	0	1,254	128	0	0	0
		VW	1,197	122	0	0	0	1,241	126	0	0	0	1,284	131	0	0	0	1,289	131	0	0	0	1,286	131	0	0	0
P2 / P2SW	15W	VF	1,878	129	1	0	0	1,947	134	1	0	0	2,015	139	1	0	0	2,023	139	1	0	0	2,019	139	1	0	0
		VW	1,927	133	1	0	0	1,997	137	1	0	0	2,067	142	1	0	0	2,075	143	1	0	0	2,071	143	1	0	0
P3 / P3SW	23W	VF	2,908	129	1	0	0	3,015	134	1	0	0	3,119	138	1	0	0	3,132	139	1	0	0	3,126	139	1	0	0
		VW	2,983	132	1	0	0	3,093	137	1	0	0	3,200	142	1	0	0	3,213	143	1	0	0	3,206	142	1	0	0
P4	35W	VF	4,096	117	1	0	1	4,247	121	1	0	1	4,394	126	1	0	1	4,412	126	1	0	1	4,403	126	1	0	1
		VW	4,202	120	1	0	0	4,357	125	1	0	1	4,508	129	1	0	1	4,526	129	1	0	1	4,517	129	1	0	1
P5	48W	VF	5,567	115	1	0	1	5,772	119	1	0	1	5,972	123	1	0	1	5,996	124	1	0	1	5,984	124	1	0	1
		VW	5,711	118	1	0	1	5,921	122	1	0	1	6,127	126	1	0	1	6,151	127	1	0	1	6,139	127	1	0	1

Electrical Load

Performance Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1 / P1SW	10W	0.082	0.049	0.043	0.038	--	--
	13W	--	--	--	--	0.046	0.033
P2 / P2SW	15W	0.132	0.081	0.072	0.064	--	--
	18W	--	--	--	--	0.056	0.041
P3 / P3SW	23W	0.195	0.114	0.100	0.088	--	--
	26W	--	--	--	--	0.079	0.058
P4	35W	0.302	0.175	0.152	0.134	--	--
	38W	--	--	--	--	0.115	0.086
P5	48W	0.434	0.241	0.211	0.184	--	--
	52W	--	--	--	--	0.157	0.119

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
E10WH	VF	1,658
	VW	1,701
E20WC	VF	2,840
	VW	2,913

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 = 10ft
Grid = 10ft x 10ft

WDGE2 LED P3 40K 80CRI VW

WDGE2 LED P3 40K 80CRI VF
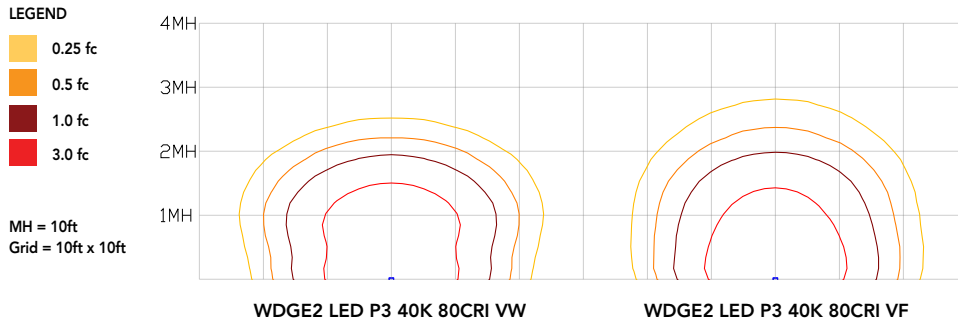
Emergency Egress Options

### 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 examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E10WH or E20WC and VF distribution.

Grid = 10ft x 10ft

WDGE2 LED xx 40K 80CRI VF MVOLT E10WH

WDGE2 LED xx 40K 80CRI VF MVOLT E20WC
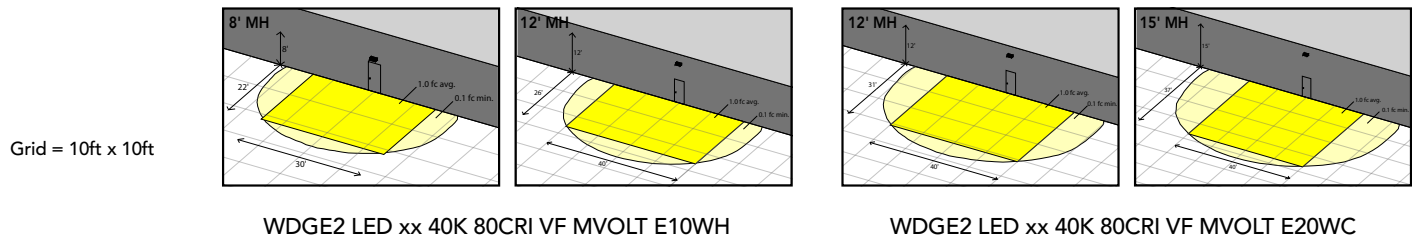
Dual Switching (DS) Option

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. This option is typically used with a back generator or inverter providing emergency power.

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

Driver1   Driver2

LITHONIA LIGHTING.

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
© 2019-2021 Acuity Brands Lighting, Inc. All rights reserved.

WDGE2 LED
Rev. 01/04/21

Control / Sensor Options
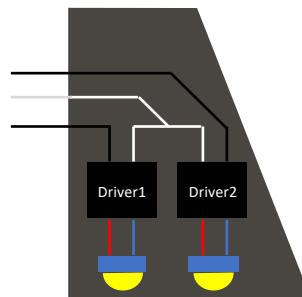
Motion/Ambient Sensor (PIR_, PIRH_)

Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture,   900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR

HIGH VIEW
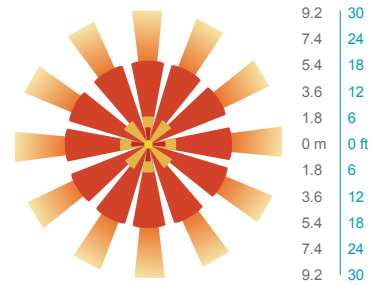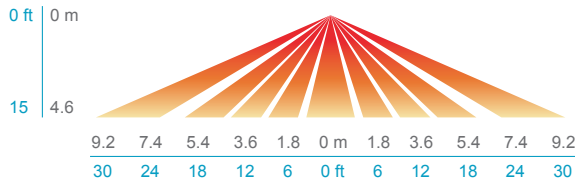
PIRH

SIDE VIEW
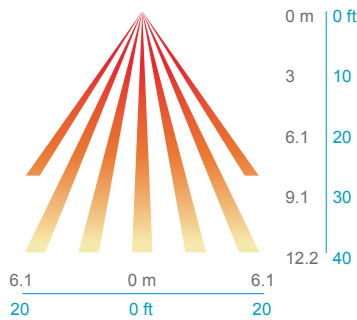
TOP VIEW
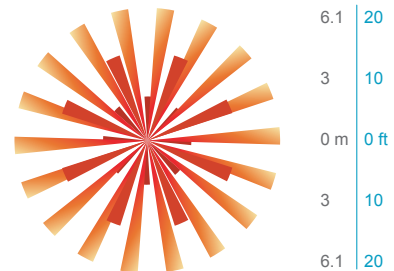
Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

NLTAIR2 PIR – nLight AIR Motion/Ambient Sensor

D = 7"

H = 11"

W = 11.5"

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

D = 1.75"

H = 9"

W = 11.5"

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).

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.
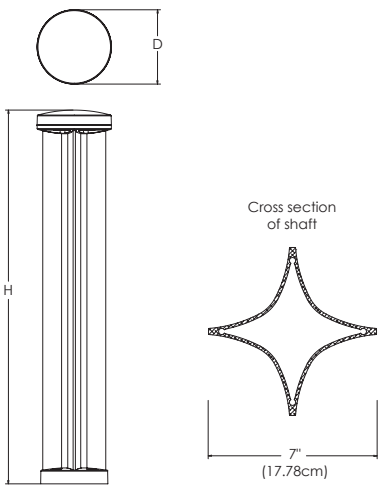
WARRANTY
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

RADEAN Bollard
LED Site Luminaire

Catalog Number

Notes

Type

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

Specifications

Diameter: D = 8.25" (20.96cm)

Height: H = 41.5" Standard (105.41cm)

Weight (max): 20lbs (9.07Kg)

Cross section of shaft

7" (17.78cm)

Introduction

The Radean LED Bollard is an award-winning, energy-saving, long-life solution designed to perform the way a bollard should.

The Radean LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.

BTS and BCC   BTT and BCC   BTS and BCF   BTT and BCF
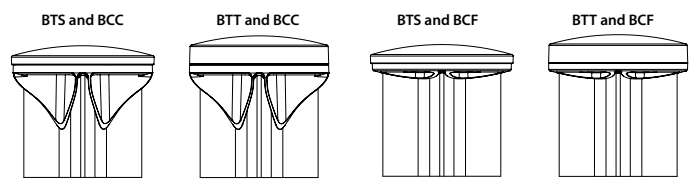
Ordering Information

EXAMPLE: RADB LED P4 30K SYM MVOLT BTS BCCDNATXD DBLXD

RADB LED

Series	Performance Package	Color temperature	Distribution	Voltage	Control options	Bollard top *(required)*		
RADB LED	P1 P2 P3 P4 P5[1]	27K 2700 K 30K 3000 K 35K 3500 K 40K 4000 K 50K 5000 K	ASY Asymmetric[2] SYM Symmetric[1]	MVOLT[3] 120 208[3] 240[3] 277 347 480	**Shipped installed** PE Photoelectric cell, button type[4,5] DMG 0-10V dimming driver (no controls) E7WH Emergency battery backup, Certified in CA Title 20 MAEDBS1[6,7] FAO Field adjustable output[5] PIR Motion sensor Bi-level[3,5,6,7]	**Slim Top** BTS Slim top, painted to match shaft[5,8] BTSDWHXD Slim top, white[5,8] BTSDBLBXD Slim top, black texture[5,8] BTSDBLXD Slim top, black[5,8] BTSDDBTXD Slim top, dark bronze textured[5,8] BTSDDBXD Slim top, dark bronze[5,8] BTSDNATXD Slim top, natural aluminum textured[5,8] BTSDNAXD Slim top, natural aluminum[5,8] BTSDWHGXD Slim top, white textured[8]	**Tall Top** BTT Tall top painted to match shaft[8] BTTDBLBXD Tall top, black textured[8] BTTDBLXD Tall top, black[8] BTTDDBTXD Tall top, dark bronze textured[8] BTTDDBXD Tall top, dark bronze[8] BTTDNATXD Tall top, natural aluminum textured[8] BTTDNAXD Tall top, natural aluminum[8] BTTDWHGXD Tall top, white textured[8] BTTDWHXD Tall top, white[8]	

Bollard crown *(required)*				Other options	Finish *(required)*	
Deep Crown		**Flat Crown**		H24[6,9] 24" overall height	DDBXD	Dark bronze
BCC	Deep crown, painted to match shaft[8]	BCF	Flat crown, painted to match shaft[8]	H30[6,9] 30" overall height	DBLXD	Black
BCCDWHXD	Deep crown, white[8]	BCFDBLBXD	Flat crown, black textured[8]	H36[6,9] 36" overall height	DNAXD	Natural aluminum
BCCDBLXD	Deep crown, black[8]	BCFDBLXD	Flat crown, black[8]	L/AB Without anchor bolts	DWHXD	White
BCCDBLBXD	Deep crown, black textured[8]	BCFDDBTXD	Flat crown, dark bronze textured[8]		DDBTXD	Textured dark bronze
BCCDDBTXD	Deep crown, dark bronze textured[8]	BCFDDBXD	Flat crown, dark bronze[8]		DBLBXD	Textured black
BCCDDBXD	Deep crown, dark bronze[8]	BCFDNATXD	Flat crown, natural aluminum textured[8]		DNATXD	Textured natural aluminum
BCCDNATXD	Deep crown, natural aluminum textured[8]	BCFDNAXD	Flat crown, natural aluminum[8]		DWHGXD	Textured white
BCCDNAXD	Deep crown, natural aluminum[8]	BCFDWHGXD	Flat crown, white textured[8]			
BCCDWHGXD	Deep crown, white textured[8]	BCFDWHXD	Flat crown, white[8]			

Accessories
Ordered and shipped separately.

RADBAB U	Anchor bolts (4)	RK1RADB BCKIT (FINISH) U	Base cover with bolt caps
RADBABC DDBXD U	Replacement anchor bolt covers (specify finish) (4)	RK1RADB EMTESTMAG U	Emergency test stylus

NOTES
1. P5 only available in SYM distribution.
2. ASY has only two illuminated quadrants driven at higher drive currents to generate similar output as the SYM-4-quadrant product.
3. PIR not available with 208V or 240V.
4. PE only available with ASY.
5. PE, PIR and FAO not available with BTS.
6. E7WH and PIR only available in full height. Not available with H24, H30 or H36.
7. PIR not available with E7WH.
8. Architectural and custom colors available (additional leadtimes and cost may apply).
9. 42" Height is standard. H24, H30 and H36 have longer leadtimes.

Options

PIR	FAO	E7WH	PE

PIR OPTION
AVAILABLE WITH PE OPTION

PIR MOTION SENSOR

FAO OPTION
AVAILABLE WITH PE OPTION

FAO DEVICE FIELD ADJUSTABLE OUTPUT

EMERGENCY INDICATOR LIGHT

EMERGENCY MAGNETIC SWITCH

PHOTOELECTRIC CELL BUTTON TYPE

Only available with BTT tops | Only available with BTT tops | Only available with ASY | Only available with ASY
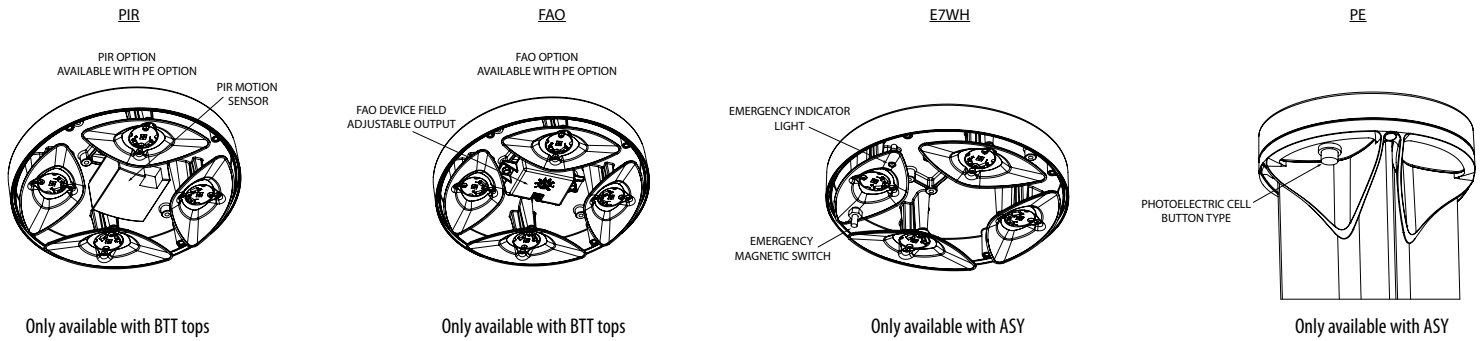
Performance Data

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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Performance Data DNAXD FInish*

Light Engines	Performance Package	System Watts	2700K					3000K					3500K					4000K					5000K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
"Symmetric (4 light engines)"	P1	5	345	0	1	0	66	362	0	1	0	69	370	0	1	0	71	380	0	1	0	73	382	0	1	0	73
	P2	8	644	0	1	0	81	677	0	1	0	85	692	0	1	0	87	711	0	1	0	89	713	0	1	0	89
	P3	13	1036	1	1	0	77	1088	1	1	0	81	1112	1	1	0	83	1142	1	1	0	85	1146	1	1	0	85
	P4	19	1460	1	1	0	79	1534	1	1	0	83	1568	1	1	0	84	1610	1	1	0	87	1616	1	1	0	87
	P5	32	2314	1	1	0	72	2430	1	1	0	75	2484	1	1	0	77	2551	1	1	0	79	2561	1	1	0	79
"Asymmetric (2 light engines)"	P1	5	312	0	1	0	60	328	0	1	0	63	335	0	1	0	64	344	0	1	0	66	346	0	1	0	66
	P2	8	584	0	1	0	73	613	0	1	0	77	627	0	1	0	78	644	0	1	0	81	646	0	1	0	81
	P3	13	938	0	1	0	70	985	0	1	0	73	1007	0	1	0	75	1035	0	1	0	77	1038	0	1	0	77
	P4	19	1323	0	1	0	71	1390	0	1	0	75	1420	0	1	0	76	1459	0	1	0	78	1464	0	1	0	79

*Note: Lumen output varies based on finish. Silver color shown, for black (worst) or white (best) photometry, see specific photometric files downloadable from www.acuitybrands.com

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.

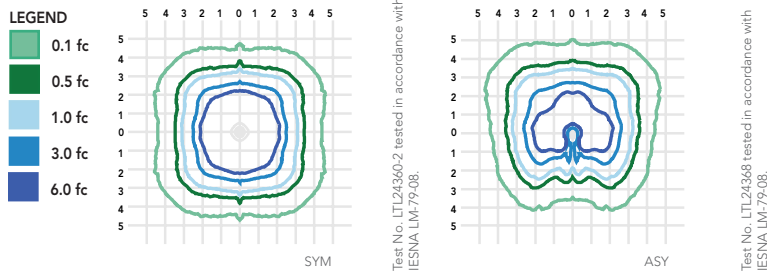| Projected LED Lumen Maintenance				
	25,000	50,000	75,000	100,000
P1	0.94	0.89	0.85	0.80
P2	0.94	0.89	0.85	0.80
P3	0.94	0.89	0.85	0.80
P4	0.94	0.89	0.85	0.80
P5	0.94	0.89	0.85	0.80

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average temperatures from 0-40°C (32-104°F).

Ambient		LAT Factor
0	32°F	1.03
5	41°F	1.03
10	50°F	1.02
15	59°F	1.01
20	68°F	1.01
25	77°F	1
30	86°F	0.99
35	95°F	0.99
40	104°F	0.98

Electrical Load

	Watts @120V (W)	Watts @277V (W)	Current (Amp)				Watts (@347V)	Watts (@480V)	Current (Amp)	
			@120V (A)	@208V (A)	@240V (A)	(@277V) (A)			(@347V) (A)	(@480V)
P1 ASY	5	6	0.0445	0.0299	0.0276	0.0262	10	10	0.0443	0.0319
P2 ASY	9	10	0.0751	0.0471	0.0429	0.0399	14	14	0.0505	0.0364
P3 ASY	14	15	0.1147	0.0699	0.0627	0.0571	18	18	0.0611	0.0441
P4 ASY	19	19	0.1586	0.0928	0.0819	0.0735	23	23	0.0709	0.0513
P1 SYM	5	6	0.0444	0.0301	0.0279	0.0265	9	9	0.0441	0.0319
P2 SYM	9	10	0.0734	0.0461	0.0421	0.0391	13	13	0.0502	0.0363
P3 SYM	13	14	0.112	0.067	0.0598	0.0544	18	18	0.0602	0.0435
P4 SYM	18	19	0.1535	0.0902	0.0796	0.0713	22	22	0.0691	0.0499
P5 SYM	31	31	0.2597	0.1527	0.1326	0.1149	35	36	0.1079	0.079

LITHONIA LIGHTING

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RADEAN Bollard homepage.

Isofootcandle plots for the RADB. Distances are in units of mounting height (3.5').

LEGEND
- 0.1 fc
- 0.5 fc
- 1.0 fc
- 3.0 fc
- 6.0 fc

SYM

Test No. LTL24360-2 tested in accordance with IESNA LM-79-08.

ASY

Test No. LTL24368 tested in accordance with IESNA LM-79-08.

FEATURES & SPECIFICATIONS

INTENDED USE
The rugged construction and maintenance-free performance of the Radean LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

CONSTRUCTION
One-piece extruded aluminum shaft with thick side walls for extreme durability, and die-cast reflector and top cap. Four 3/8" x 7" anchor bolts with double nuts and washers and 5-2/3" max. bolt circle template ensure stability. Overall height is 42" standard.

FINISH
Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Two optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination. Light engines are available in 2700K, 3000K, 3500K, 4000K or 5000K.

ELECTRICAL
Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L80/100,000 hours at P5 at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Emergency battery backup rated for -10°C minimum ambient. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color or less.

WARRANTY
Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
© 2012-2021 Acuity Brands Lighting, Inc. All rights reserved.

RADB-LED
Rev. 1/20/21