

RSX1 LED Area Luminaire











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

Specifications

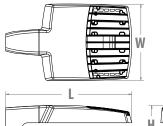
EPA (ft²@0°): 0.57 ft² (0.05 m²)

Length: 21.8" (55.4 cm) (SPA mount)

Width: 13.3" (33.8 cm)

Height: 3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm

Weight (max): 25.0 lbs (11.3 kg)





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 RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W 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 and an adjustable integral slip-fitter are also available.

Ordering Information

EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

RSX1 LED					
Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX1 LED	P1 P2 P3 P4	30K 3000K 40K 4000K 50K 5000K	R3 Type 3 Wide R4 Type 4 Wide R5 Type 5 Wide R5S Type 5 Short AFR Automotive Front Row	MVOLT (120V-277V) ¹ HVOLT (347V-480V) ² (use specific voltage for options as noted) 120 ³ 277 ³ 208 ³ 347 ³ 240 ³ 480 ³	SPA Square pole mounting (Min. 3.0" SQ for 1 at 90°, Min. 3.5" SQ for 2, 3, 4 at 90°) RPA Round pole mounting (3.2" min pole dia. for 1,2,3 or 4 at 90°) MA Mast arm adaptor (fits 2–3/8" OD horizontal tenon) IS Adjustable slipfitter (fits 2–3/8" OD tenon) 4 WBA Wall bracket

Options			Finish	
Shipped Insta HS PE PEX PER7 CE34 SF DF SPD20KV FAO DMG	House-side shield Photocontrol, button style ^{5,7} Photocontrol external threaded, adjustable ^{6,7} Seven-wire twist-lock receptacle only (no controls) ^{7,8,9} Conduit entry 3/4" NPT (Qty 2) Single fuse (120, 277, 347) ³ Double fuse (208, 240, 480) ³ 20KV Surge pack (10KV standard) Field adjustable output 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)	*Standalone and Networked Sensors/Controls (factory default settings, see table page 5) NLTAIR2	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark Bronze Black Natural Aluminum White Textured Dark Bronze Textured Black Textured White
Shipped Sepa EGS EGFV BS	External glare shield assembly) External glare shield External glare full visor (360° around light aperture) Bird spikes ¹²	*Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.		



Ordering Information

Accessories

RSX1 House side shield (includes 1 shield) RSX1HS RSX1EGS U External glares hield (specify finish) RSX1FGFV U External glare full visor (specify finish) RSXRPA U RSX Universal round pole adaptor plate (specify finish) DI I 127F 1 5 III Photocell -SSL twist-lock (120-277V) 13

DLL347F 1.5 CUL JU Photocell -SSL twist-lock (347V) 13 DLL480F 1.5 CUL JU Photocell -SSL twist-lock (480V) 13

DSHORT SBK U Shorting cap 13

- NOTES

 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).

 2 HVOLT driver operates on any line voltage from 347-480V (50/60
- nz). Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. IS maximum tilt is 90° above horizontal. Requires MOVLT or 347V.

- Requires 120V, 208V, 240V, 277V or 347V.

 Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, PIRHN).
- 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.
- For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010. Must be ordered with PIRIN. Must be ordered with NLTAIR2. For additional information on PIRHN

- vist nere.

 Must be ordered with fixture for factory pre-drilling.

 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

 Two or more of the following options cannot be combined including DMG, PER7, FAO and PIRHIN.

 Requires MVOLT or HVOLT.

External Shields



House Side Shield



External Glare Shield

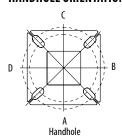


External 360 Full Visor

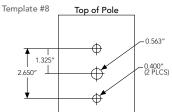
Pole/Mounting Informatiion

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.

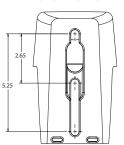
HANDHOLE ORIENTATION



RSX POLE DRILLING



RSX STANDARD ARM



Tenon Adapters

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Pole Drilling Nomenclature

N	Number of heads at degree from handhole (default side A)											
DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS							
1 @ 90°	1 @ 90° 2 @ 280° 2 @ 90° 3 @ 120° 3 @ 90° 4 @ 90°											
Side B	Side B Side B & D Side B & C Round pole only Side B, C, & D Sides A, B, C, D											
Note: Review II	ıminaire snec she	et for specific nor	nenclature									

RSX1 - Luminaire EPA

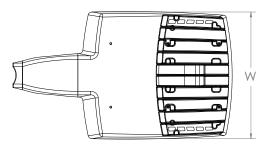
*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration Mounting Type Tilt		Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
		-	-1			Y	+	•	-	•
SPA - Square Pole Adaptor	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.13	1.7	2.26
RPA - Round Pole Adaptor	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.13	1.7	2.26
MA - Mast Arm Adaptor	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.13	1.7	2.26
	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
	10°	0.68	1.34	1.33	2	1.74	2.64	1.35	2.03	2.71
	20°	0.87	1.71	1.73	2.56	2.26	3.42	1.75	2.62	3.49
	30°	1.24	2.19	2.3	3.21	2.87	4.36	2.49	3.73	4.97
	40°	1.81	2.68	2.98	3.85	3.68	5.3	3.62	5.43	7.24
IS - Integral Slipfitter	45°	2.11	2.92	3.44	4.2	4.08	5.77	4.22	6.33	8.44
	50°	2.31	3.17	3.72	4.52	4.44	6.26	4.62	6.94	9.25
	60°	2.71	3.66	4.38	5.21	5.15	7.24	5.43	8.14	10.86
	70°	2.78	3.98	4.54	5.67	5.47	7.91	5.52	8.27	11.03
	80°	2.76	4.18	4.62	5.97	5.76	8.31	5.51	8.27	11.03
	90°	2.73	4.25	4.64	6.11	5.91	8.47	5.45	8.18	10.97



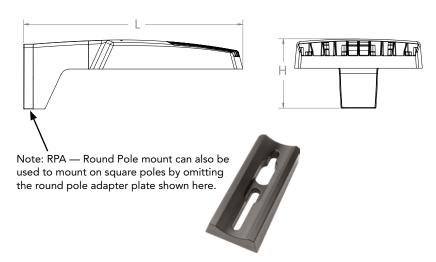
Dimensions

RSX1 with Round Pole Adapter (RPA)

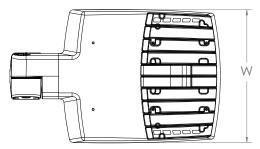


Length: 22.8" (57.9 cm) Width: 13.3" (33.8 cm)

Height: 3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm

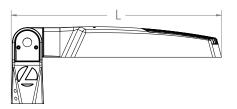


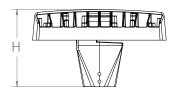
RSX1 with Adjustable Slipfitter (IS)



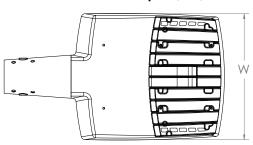
Length: 20.7" (52.7 cm) Width: 13.3" (33.8 cm)

Height: 3.0" (7.6 cm) Main Body 7.6" (19.3 cm) Arm



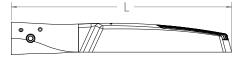


RSX1 with Mast Arm Adapter (MA)



Length: 23.2" (59.1 cm) Width: 13.3" (33.8 cm)

Height: 3.0" (7.6 cm) Main Body 3.5" (8.9 cm) Arm



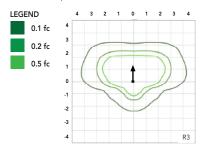


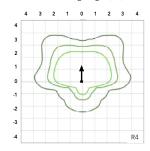


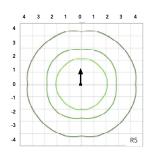
Photometric Diagrams

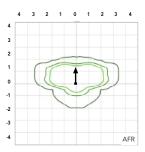
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RSX Area homepage.

Isofootcandle plots for the RSX1 LED P4 40K. Distances are in units of mounting height (20').









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

		Current (A)								
Performance Package	System Watts (W)	120V	208V	240V	277V	347V	480V			
P1	51W	0.42	0.25	0.21	0.19	0.14	0.11			
P2	72W	0.60	0.35	0.30	0.26	0.21	0.15			
P3	109W	0.91	0.52	0.45	0.39	0.31	0.23			
P4	133W	1.11	0.64	0.55	0.48	0.38	0.27			

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.

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.

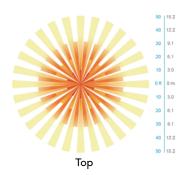
Performance Package	System Watts	Distribution.	30К (3000К, 70 CRI)				40K (4000K, 70 CRI)				50K (5000K, 70 CRI)						
Таскауе		Туре	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW
		R3	6,459	1	0	2	127	7,096	1	0	2	139	7,096	1	0	2	139
		R4	6,543	1	0	2	128	7,189	1	0	2	141	7,189	1	0	2	141
P1	51W	R5	6,631	3	0	2	130	7,286	3	0	2	143	7,286	3	0	2	143
		R5S	6,807	3	0	1	133	7,479	3	0	1	147	7,479	3	0	1	147
		AFR	6,473	1	0	1	127	7,112	1	0	1	139	7,112	1	0	1	139
		R3	8,959	2	0	2	124	9,843	2	0	2	137	9,843	2	0	2	137
		R4	9,077	2	0	2	126	9,972	2	0	2	139	9,972	2	0	2	139
P2	72W	R5	9,198	4	0	2	128	10,106	4	0	2	140	10,106	4	0	2	140
		R5S	9,443	3	0	1	131	10,374	3	0	1	144	10,374	3	0	1	144
		AFR	8,979	2	0	1	125	9,865	2	0	1	137	9,865	2	0	1	137
		R3	12,763	2	0	2	117	14,023	2	0	2	129	14,023	2	0	2	129
		R4	12,930	2	0	2	119	14,206	2	0	2	130	14,206	2	0	2	130
P3	109W	R5	13,104	4	0	2	120	14,397	4	0	2	132	14,397	4	0	2	132
		R5S	13,452	3	0	2	123	14,779	3	0	2	136	14,779	3	0	2	136
		AFR	12,791	2	0	1	117	14,053	2	0	2	129	14,053	2	0	2	129
		R3	14,890	2	0	3	112	16,360	2	0	3	123	16,360	2	0	3	123
		R4	15,085	2	0	3	113	16,574	2	0	3	125	16,574	2	0	3	125
P4	133W	R5	15,287	4	0	2	115	16,796	4	0	2	126	16,796	4	0	2	126
		R5S	15,693	4	0	2	118	17,242	4	0	2	130	17,242	4	0	2	130
		AFR	14,923	2	0	2	112	16,395	2	0	2	123	16,395	2	0	2	123

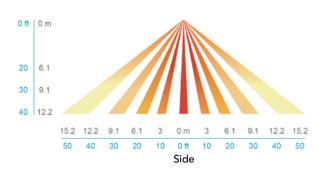


nLight Control - Sensor Coverage and Settings

PIRHN nLight Sensor Coverage Pattern







	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)							
PIRHN	Approx. 30% Output	100% Output	Enabled @ 1.5FC	7.5 minutes	3 seconds	5 minutes							

*Note: PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App.

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 RSX1 delivers 7,000 to 17,000 lumens and is ideal for replacing 70W to 400W HID pole-mounted luminaires in parking lots and other area lighting applications.

CONSTRUCTION

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. All mountings are rated for a 1.5 G vibration load per ANSI C136.31.

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 3, Type 4, Type 5, Type 5S and AFR (Automotive Front Row).

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumen maintenance is >192/100,000 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. See chart above for motion sensor default out-of-box settings. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION

Integral "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 slip fitter has an integral junction box and offers easy installation. IS adjustable slipfitter is not rated for tilting above 90° or mounting within 4 feet of ground. Can be tilted up to 90° above horizontal.

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.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/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.

