



# RSXF2 LED Floodlight Luminaire

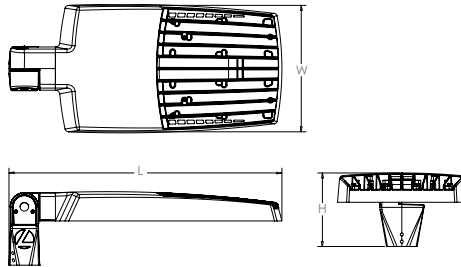


Catalog Number
Notes
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Hit the Tab key or mouse over the page to see all interactive elements.

## Specifications

EPA (ft <sup>2</sup> @45°):	0.9 ft <sup>2</sup> (0.08 m <sup>2</sup> )
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
Weight (max):	33.0 lbs (15.0 kg)



## Introduction

The new RSXF LED Flood family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSXF2 delivers 11,000 to 31,000 lumens allowing it to replace 250W to 1000W HID luminaires.

The RSXF features an adjustable integral slip-fitter that allows the luminaire to be mounted on a 2-3/8" OD tenon. Integral cover/wire box serves as an approved splice compartment allowing for fast, easy mounting and wiring without opening the electrical compartment.

## Ordering Information

**EXAMPLE: RSXF2 LED P4 40K WFL MVOLT IS DDBXD**

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSXF2 LED	P1	30K 3000K	AWFD Area Wide Forward	MVOLT (120V-277V) <sup>1</sup>	IS Adjustable slipfitter (fits 2-3/8" OD tenon) <sup>4</sup>
	P2	40K 4000K	WFL Wide Flood	HVOLT (347V-480V) <sup>2</sup>	
	P3	50K 5000K	MFL Medium Flood	(use specific voltage for options as noted)	
	P4		NFL Narrow Flood	120 <sup>3</sup> 277 <sup>3</sup>	
	P5		SP Spot	208 <sup>3</sup> 347 <sup>3</sup>	
	P6		NSP Narrow Spot	240 <sup>3</sup> 480 <sup>3</sup>	

Options	Finish
<b>Shipped Installed</b> HS House-side shield PE Photocontrol, button style <sup>5,7</sup> PEX Photocontrol external threaded, adjustable <sup>6,7</sup> PER7 Seven-wire twist-lock receptacle only (no controls) <sup>7,8,9</sup> DS Dual Switching <sup>10</sup> CE34 Conduit entry 3/4" NPT (Qty 2) SF Single fuse (120, 277, 347) <sup>3</sup> DF Double fuse (208, 240, 480) <sup>3</sup> SPD20KV 20KV Surge pack (10KV standard) FAO Field adjustable output DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured Dark Bronze DBLBXD Textured Black DNATXD Textured Natural Aluminum DWHGXD Textured White
<b>Shipped Separately (requires some field assembly)</b> FV Full Visor (360° around light aperture) UBV Upper/bottom visor	
<b>Shipped Installed</b> <b>*Standalone Sensors Controls (factory default settings, see table page 5)</b> PIRS Motion/ambient sensor for 8-20' mounting heights <sup>7,14,15</sup> PIRHS Motion/ambient sensor for 20-40' mounting heights <sup>7,14,15</sup>  <b>*Networked Sensors/Controls</b> NL TAIR2 nLight AIR generation 2 <sup>11,15</sup> PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) <sup>7,12,14,15</sup>	
<b>*Note: Sensor coverage pattern is affected when luminaire is tilted.</b>	



## Ordering Information

### Accessories

Ordered and shipped separately.

RSXF2FV U	Full visor (specify finish)
RSXF2UBV U	Upper/bottom visor (specify finish)
RCPIRS	Remote control PIRS/PIRHS field programmer
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>13</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>13</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>13</sup>
DSHORT SBK U	Shorting cap <sup>13</sup>

### 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 Hz).
- 3 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 4 IS maximum tilt is 90° above horizontal.
- 5 Requires MVOLT or 347V.
- 6 Requires 120V, 208V, 240V, 277V or 347V.
- 7 Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, PIRS, PIRHS, PIRHN).
- 8 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.
- 9 For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010.
- 10 Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details. Provides 50/50 fixture operation via (2) independent drivers. Not available with PE, PEX, PER7, PIRS, PIRSH or PIRHN.
- 11 Must be ordered with PIRHN.
- 12 Must be ordered with NLTAR2. For additional information on PIRHN visit [here](#).
- 13 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- 14 Two or more of the following options cannot be combined including DMG, PER7, FAO, PIRS, PIRHS and PIRHN.
- 15 Requires MVOLT or HVOLT.

## External Shields



UBV Visor - Top Mounted



UBV Visor - Bottom Mounted



Full Visor - 360°

## Pole/Mounting Information

Accessories including bullhorns, cross arms and other adapters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit [Accessories](#).

## RSXF2 - Luminaire EPA

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

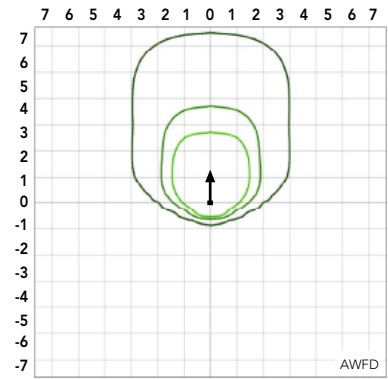
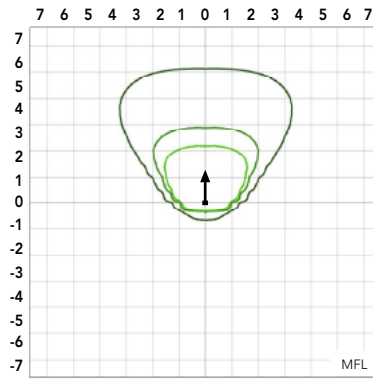
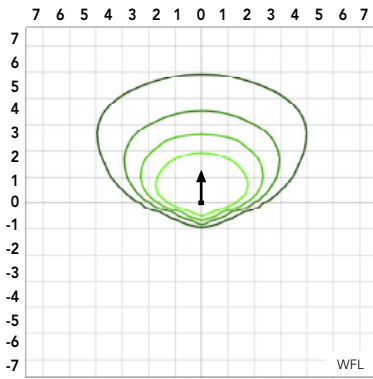
Fixture Quantity & Mounting Configuration		EPA (ft <sup>2</sup> )								
		Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
Mounting Type	Tilt									
	0°	0.69	1.22	1.27	1.8	1.61	2.39	1.37	2.06	2.74
	10°	0.53	1.06	1.05	1.58	1.37	2.08	1.06	1.59	2.12
	20°	0.52	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
IS - Integral Slipfitter	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
	85°	3.85	5.96	6.55	8.58	8.31	11.88	7.7	11.56	15.41
	90°	3.85	5.96	6.55	8.58	8.31	11.88	7.7	11.56	15.41

Isofootcandle plots for the RSXF2 LED P6 40K. Distances are in units of mounting height (30').

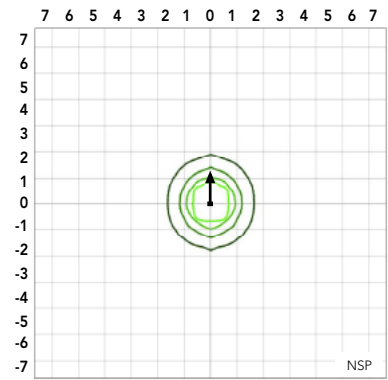
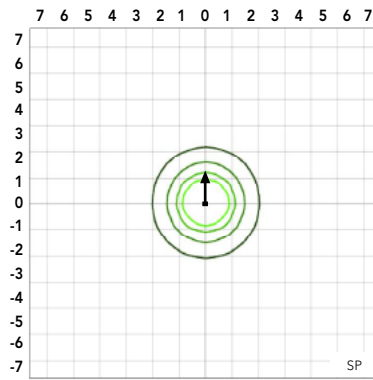
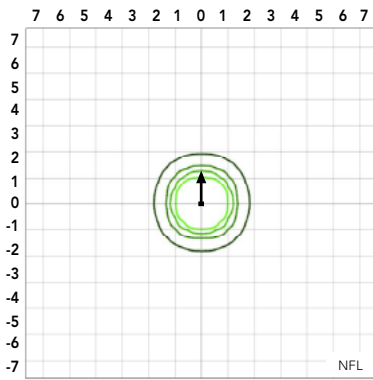
**LEGEND**

- 0.1 fc
- 0.5 fc
- 1.0 fc

**Luminaires tilted at 45°**



**Luminaires tilted at 0°**



## 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.

### Lumen Output

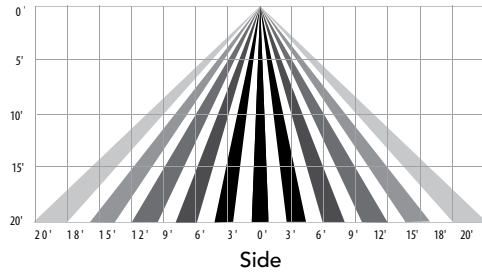
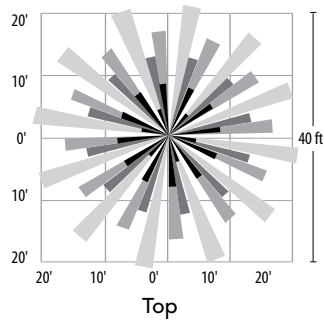
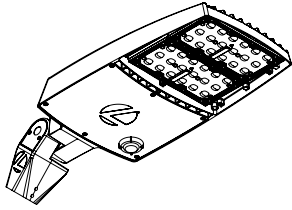
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		30K (3000K, 70 CRI)			40K (4000K, 70 CRI)			50K (5000K, 70 CRI)		
			°H	°V	°H	°V	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD
			P1	71W	AWFD	119	120	69	41	9,663	136	7,915	10,616	150	8,696
		WFL	133	129	116	80	9,467	133	4,031	10,401	146	4,428	10,401	146	4,428
		MFL	105	110	91	96	9,873	139	4,482	10,847	153	4,924	10,847	153	4,924
		NFL	78	79	44	45	9,529	134	14,090	10,469	147	15,480	10,469	147	15,480
		SP	48	48	27	27	9,223	130	29,378	10,133	143	32,277	10,133	143	32,277
		NSP	42	44	19	21	9,385	132	49,553	10,311	145	54,443	10,311	145	54,443
P2	111W	AWFD	119	120	69	41	15,094	136	12,364	16,584	149	13,584	16,584	149	13,584
		WFL	133	129	116	80	14,788	133	6,296	16,248	146	6,918	16,248	146	6,918
		MFL	105	110	91	96	15,422	139	7,001	16,944	153	7,692	16,944	153	7,692
		NFL	78	79	44	45	14,885	134	22,010	16,354	147	24,182	16,354	147	24,182
		SP	48	48	27	27	14,407	130	45,891	15,828	143	50,418	15,828	143	50,418
		NSP	42	44	19	21	14,660	132	77,406	16,107	145	85,046	16,107	145	85,046
P3	147W	AWFD	119	120	69	41	19,007	129	15,569	20,883	142	17,106	20,883	142	17,106
		WFL	133	129	116	80	18,622	127	7,928	20,460	139	8,711	20,460	139	8,711
		MFL	105	110	91	96	19,420	132	8,816	21,337	145	9,687	21,337	145	9,687
		NFL	78	79	44	45	18,744	128	27,716	20,594	140	30,451	20,594	140	30,451
		SP	48	48	27	27	18,142	123	57,788	19,932	136	63,490	19,932	136	63,490
		NSP	42	44	19	21	18,461	126	97,475	20,282	138	107,090	20,282	138	107,090
P4	187W	AWFD	119	120	69	41	22,974	123	18,819	25,241	135	20,676	25,241	135	20,676
		WFL	133	129	116	80	22,509	120	9,583	24,730	132	10,529	24,730	132	10,529
		MFL	105	110	91	96	23,474	126	10,657	25,790	138	11,708	25,790	138	11,708
		NFL	78	79	44	45	22,656	121	33,500	24,892	133	36,807	24,892	133	36,807
		SP	48	48	27	27	21,928	117	69,848	24,092	129	76,741	24,092	129	76,741
		NSP	42	44	19	21	22,314	119	117,820	24,516	131	129,446	24,516	131	129,446
P5	210W	AWFD	119	120	69	41	24,722	118	20,251	26,786	128	21,941	26,786	128	21,941
		WFL	133	129	116	80	24,222	115	10,312	26,612	127	11,330	26,612	127	11,330
		MFL	105	110	91	96	25,260	120	11,468	27,752	132	12,599	27,752	132	12,599
		NFL	78	79	44	45	24,380	116	36,050	26,786	128	39,607	26,786	128	39,607
		SP	48	48	27	27	23,597	112	75,164	25,925	123	82,580	25,925	123	82,580
		NSP	42	44	19	21	24,012	114	126,785	26,381	126	139,294	26,381	126	139,294
P6	244W	AWFD	119	120	69	41	27,637	113	22,638	30,364	124	24,872	30,364	124	24,872
		WFL	133	129	116	80	27,077	111	11,528	29,749	122	12,666	29,749	122	12,666
		MFL	105	110	91	96	28,237	116	12,819	31,024	127	14,085	31,024	127	14,085
		NFL	78	79	44	45	27,254	112	40,299	29,944	123	44,277	29,944	123	44,277
		SP	48	48	27	27	26,378	108	84,023	28,981	119	92,314	28,981	119	92,314
		NSP	42	44	19	21	26,842	110	141,728	29,491	121	155,715	29,491	121	155,715

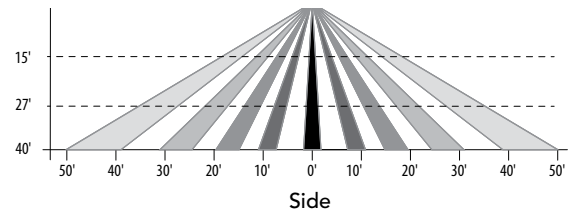
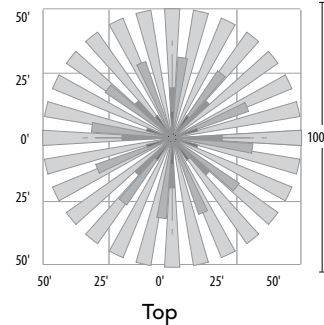
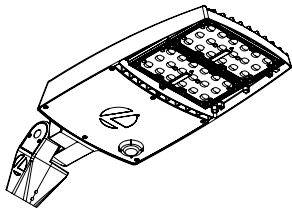
## Sensor Coverage

Motion Sensor Default Settings (PIRS and PIRHS only)						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIRS or PIRHS	Approx. 37% Output	100% Output	Enabled @ 5FC	5 minutes	3 seconds	20 seconds

### PIRS Coverage Patterns

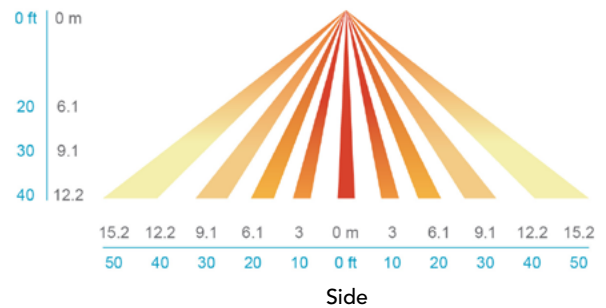
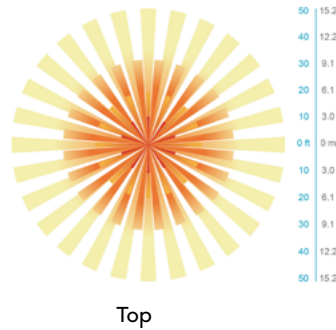
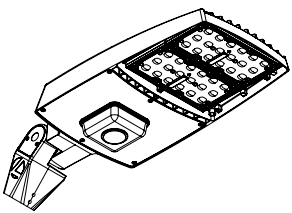


### PIRHS Coverage Pattern



### PIRHN nLight Sensor Coverage Pattern

#### nLight PIRHN



## FEATURES & SPECIFICATIONS

### INTENDED USE

The RSX LED flood 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 RSXF1 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

The RSX LED flood 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 adjustable slipfitter mounts on a 2 3/8" OD tenon. The adjustable slip fitter has an integral junction box for easy installation. 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 warranted 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 Wide Flood, Medium Flood, Narrow Flood, Spot, Narrow Spot and Area Wide/Forward.

### 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 >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 flood 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. Integrated motion sensors with on-board photocells feature remote control sensor programming and are suitable for mounting heights up to 40 feet.

### nLIGHT AIR CONTROLS

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

### INSTALLATION

The integral "IS" mount offers 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, wiring and distribution pattern aiming. 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. 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](http://www.designlights.org/QPL) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**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.

