



RSXF3 LED Floodlight Luminaire

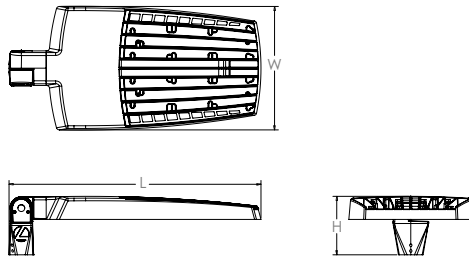


Catalog Number
Notes
Type

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

Specifications

EPA (ft ² @45°):	3.7 ft ² (0.3 m ²)
Length:	32.8" (83.3 cm)
Width:	16.1" (40.9 cm)
Height:	3.0" (7.6 cm) Main Body 7.6" (19.3 cm) Arm
Weight (max):	42.0 lbs (19.1 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 RSXF3 delivers 25,000 to 41,000 lumens allowing it to replace 400W 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: RSXF3 LED P4 40K WFL MVOLT IS DDBXD

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSXF3 LED	P1 P2 P3 P4	30K 3000K 40K 4000K 50K 5000K	AWFD Area Wide Forward WFL Wide Flood MFL Medium Flood NFL Narrow Flood SP Spot NSP Narrow Spot	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	IS Adjustable slipfitter (fits 2-3/8" OD tenon) ⁴

Options	Finish	
<p>Shipped Installed</p> <p>PE Photocontrol, button style^{5,7}</p> <p>PEX Photocontrol external threaded, adjustable^{6,7}</p> <p>PER7 Seven-wire twist-lock receptacle only (no controls)^{7,8,9}</p> <p>CE34 Conduit entry 3/4" NPT (Qty 2)</p> <p>SF Single fuse (120, 277, 347)³</p> <p>DF Double fuse (208, 240, 480)³</p> <p>SPD20KV 20KV Surge pack (10KV standard)</p> <p>FAO Field adjustable output</p> <p>DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)</p> <p>Shipped Separately (requires some field assembly)</p> <p>FV Full Visor (360° around light aperture)</p> <p>UBV Upper/bottom visor</p>	<p>Shipped Installed</p> <p>*Standalone and Networked Sensors/Controls (factory default settings, see table page 5)</p> <p>NLTAIR2 nLight AIR generation 2^{10,14}</p> <p>PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2)^{7,11,13,14}</p> <p>*Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.</p>	<p>DDBXD Dark Bronze</p> <p>DBLXD Black</p> <p>DNAXD Natural Aluminum</p> <p>DWHXD White</p> <p>DDBTXD Textured Dark Bronze</p> <p>DBLTXD Textured Black</p> <p>DNATXD Textured Natural Aluminum</p> <p>DWHGXD Textured White</p>

Ordering Information

Accessories

Ordered and shipped separately.

RSXF3FV U	Full visor (specify finish)
RSXF3UBV U	Upper/bottom visor (specify finish)
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹²
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹²
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹²
DSHORT SBK U	Shorting cap ¹²

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 MOVLT 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, 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 Must be ordered with PIRHN.
- 11 Must be ordered with NLTAIR2.
- 12 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- 13 Two or more of the following options cannot be combined including DMG, PER7, FAO and PIRHN.
- 14 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.

RSXF3 - 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 ²)								
		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									
IS - Integral Slipfitter	0°	0.7	1.32	1.37	2	1.76	2.62	1.39	2.09	2.8
	10°	0.96	1.85	1.84	2.76	2.4	3.64	1.92	1.92	3.84
	20°	1.34	2.58	2.64	3.83	3.35	5.11	2.68	2.68	5.36
	30°	2.04	3.52	3.79	5.2	4.7	7.03	4.09	4.09	8.16
	40°	3.12	4.54	5.23	6.6	6.33	9.02	6.23	6.23	12.48
	45°	3.72	5.05	6.12	7.35	7.15	10.01	7.45	7.45	14.88
	50°	4.01	5.49	6.6	7.87	7.81	10.88	8.02	8.02	16.04
	60°	4.72	6.36	7.69	9.09	9.11	12.61	9.44	9.44	18.88
	70°	4.9	7.01	8.05	10.02	9.78	13.94	9.80	9.80	19.6
	80°	4.95	7.4	8.23	10.61	10.26	14.75	9.90	9.90	19.8
90°	4.91	7.55	8.34	10.88	10.54	15.05	9.82	9.82	19.64	

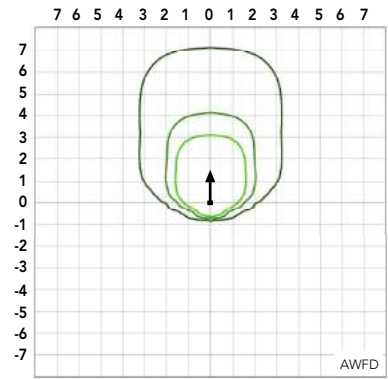
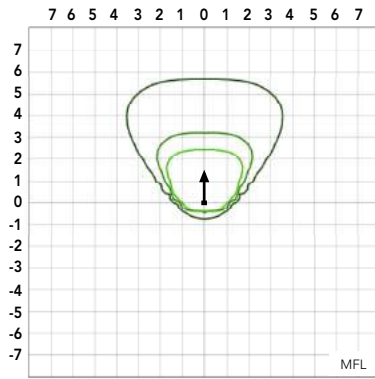
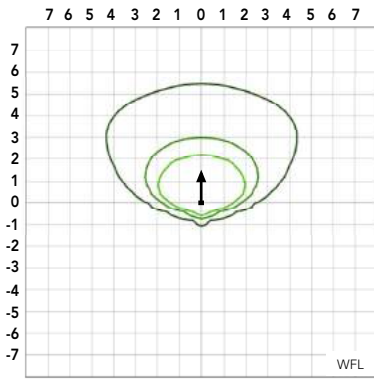
Photometric Diagrams

Isofootcandle plots for the RSXF3 LED P4 40K. Distances are in units of mounting height (30').

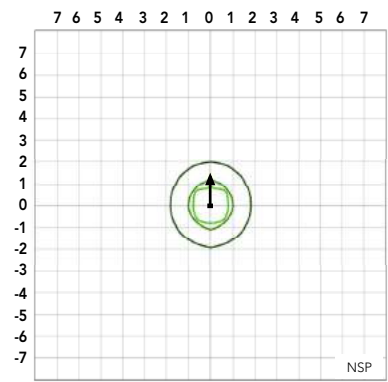
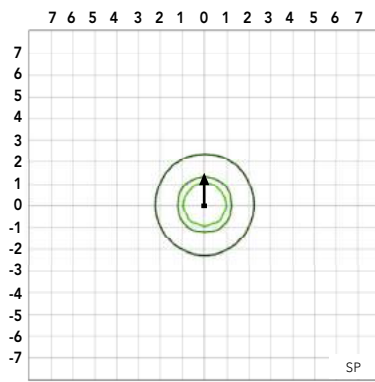
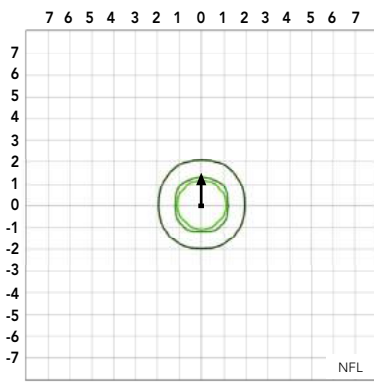
LEGEND

- 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	194W	1.61	0.92	0.80	0.69	0.56	0.40
P2	222W	1.85	1.06	0.92	0.80	0.63	0.45
P3	266W	2.22	1.27	1.10	0.95	0.76	0.55
P4	312W	2.60	1.49	1.29	1.11	0.89	0.64

Projected LED Lumen Maintenance

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

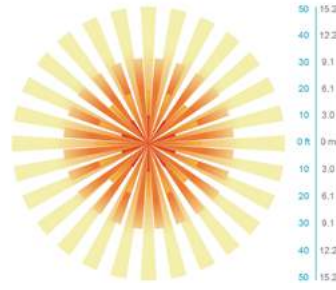
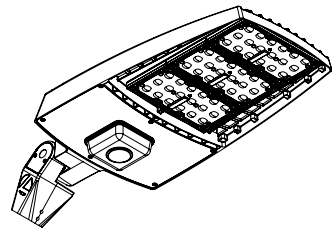
Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Lumen Output

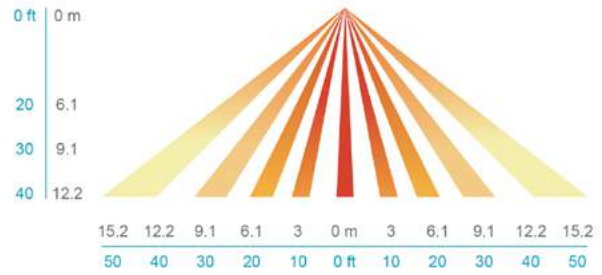
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

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	194W	AWFD	119	120	69	41	24,880	128	20,380	27,336	141	22,392	27,336	141	22,392
		WFL	133	129	116	80	24,376	126	10,378	26,782	138	11,402	26,782	138	11,402
		MFL	105	110	91	96	25,421	131	11,541	27,930	144	12,680	27,930	144	12,680
		NFL	78	79	44	45	24,536	126	36,280	26,957	139	39,860	26,957	139	39,860
		SP	48	48	27	27	23,747	122	75,642	26,091	134	83,109	26,091	134	83,109
P2	222W	NSP	42	44	19	21	24,165	125	127,593	26,550	137	140,186	26,550	137	140,186
		AWFD	119	120	69	41	27,942	126	22,888	30,700	138	25,147	30,700	138	25,147
		WFL	133	129	116	80	27,376	123	11,655	30,078	135	12,806	30,078	135	12,806
		MFL	105	110	91	96	28,549	129	12,961	31,367	141	14,240	31,367	141	14,240
		NFL	78	79	44	45	27,555	124	40,744	30,275	136	44,766	30,275	136	44,766
P3	266W	SP	48	48	27	27	26,670	120	84,953	29,302	132	93,337	29,302	132	93,337
		NSP	42	44	19	21	27,139	122	143,296	29,817	134	157,436	29,817	134	157,436
		AWFD	119	120	69	41	32,398	122	26,538	35,596	134	29,158	35,596	134	29,158
		WFL	133	129	116	80	31,742	119	13,514	34,875	131	14,848	34,875	131	14,848
		MFL	105	110	91	96	33,103	124	15,028	36,369	137	16,511	36,369	137	16,511
P4	312W	NFL	78	79	44	45	31,950	120	47,243	35,103	132	51,905	35,103	132	51,905
		SP	48	48	27	27	30,923	116	98,500	33,975	128	108,222	33,975	128	108,222
		NSP	42	44	19	21	31,467	118	166,148	34,572	130	182,543	34,572	130	182,543
		AWFD	119	120	69	41	36,634	117	30,008	40,249	129	32,969	40,249	129	32,969
		WFL	133	129	116	80	35,892	115	15,281	39,434	126	16,789	39,434	126	16,789
P4	312W	MFL	105	110	91	96	37,430	120	16,993	41,124	132	18,670	41,124	132	18,670
		NFL	78	79	44	45	36,127	116	53,419	39,692	127	58,691	39,692	127	58,691
		SP	48	48	27	27	34,966	112	111,379	38,416	123	122,368	38,416	123	122,368
		NSP	42	44	19	21	35,581	114	187,870	39,092	125	206,409	39,092	125	206,409

PIRHN nLight Sensor Coverage Pattern



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)
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 Clarity Pro App.

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 RSXF3 delivers 25,000 to 41,000 lumens and is ideal for replacing 400W to 100W 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 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 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.

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 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 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.

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. 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.

WARRANTY

5-year limited warranty.

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.