RSXF1 LED
Floodlight

Catalog Number

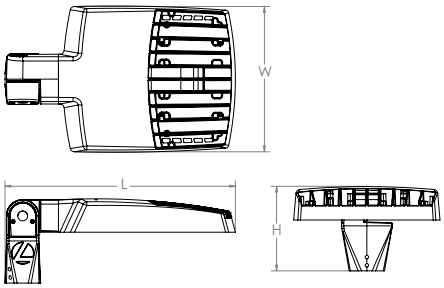
Notes

Type

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

Specifications

EPA (ft²@45°):	2.1 ft² (0.2 m²)
Length:	20.7" (52.6 cm)
Width:	13.3" (33.8 cm)
Height:	3.0" (7.6 cm) Main Body 7.6" (19.3 cm) Arm
Weight (max):	31 lbs (14.1 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 RSXF1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID floodlights.

The RSXF features an adjustable integral slipfitter 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. A yoke and other mounting configurations are available.

Ordering Information

EXAMPLE: RSXF1 LED P4 40K WFL MVOLT IS DDBXD

RSXF1 LED

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSXF1 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] XVOLT (277V-480V) [4] **(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) [5] YKC62 Yoke with 16-3 SO cord, 2ft [5] AASP Adjustable tilt arm square pole mounting [5] AARP Adjustable tilt arm round pole mounting [5] AAWB Adjustable tilt arm with wall bracket [5] AAWSC Adjustable tilt arm wall bracket and surface conduit box [5]

Options

Shipped Installed

PE	Photocontrol, button style [6,8]
PEX	Photocontrol external threaded, adjustable [7,8]
PER7	Seven-wire twist-lock receptacle only (no controls) [8,9,10,11]
CE34	Conduit entry 3/4" NPT (Qty 2)
SF	Single fuse (120, 277, 347) [3]
DF	Double fuse (208, 240, 480) [3]
SPD20KV	20KV Surge pack (10KV standard)
FAO	Field adjustable output [8,11]
DMG	0-10V dimming extend out back of housing for external control (control ordered separate) [8,11]

Shipped Separately (requires some field assembly)

FV	Full Visor (360° around light aperture)
UBV	Upper/bottom visor
BS	Bird Spikes [12]

Shipped Installed

***Standalone and Networked Sensors/Controls (factory default settings, see table page 5)**

NLTAIR2	nLight AIR generation 2 [11,13,14]
PIRHN	Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) [8,11,13,15]

*Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.

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

Ordering Information

Accessories
Ordered and shipped separately.

RSXF1FV U	Full visor (specify finish)
RSXF1UBV U	Upper/bottom visor (specify finish)
RSXWBA U	RSX WBA wall bracket (specify finish)
RSXSCB U	RSX Surface conduit box (specify finish, for use with WBA, WBA not included)
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [16]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [16]
DLL480F 1.5 CUL JU	Photocell -SSL twist-lock (480V) [16]
DSHORT SBK U	Shorting cap [16]

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. XVOLT driver not available with P1 or P2. 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. Maximum tilt is 90° above horizontal.
6. Requires MOVLT or 347V.
7. Requires 120V, 208V, 240V, 277V or 347V.
8. Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, PIRHN).
9. 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.
10. For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010.
11. Two or more of the following options cannot be combined including DMG, PER7, FAO and PIRHN.
12. Must be ordered with fixture for factory pre-drilling.
13. Must be ordered with PIRHN.
14. Requires MVOLT or HVOLT.
15. Must be ordered with NLTAIR2. For additional information on PIRHN visit here.
16. Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

External Shields

UBV Visor - Top Mounted

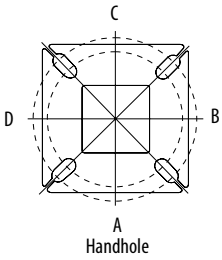
UBV Visor - Bottom Mounted

Full Visor - 360°

Pole/Mounting Informatiion

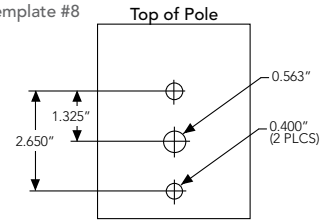
Accessories including bullhorns, cross arms and other adpaters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit Accessories.

HANDHOLE ORIENTATION

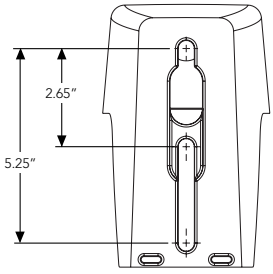


RSX POLE DRILLING

Template #8



RSXF ADJUSTABLE ARM



Round Tenon Mount - Pole Top Slipfitters

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

RSXF1 - 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 YK - Yoke AASP/AARP - Adjustable Arm Square/Round Pole	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
	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

Photometric Diagrams

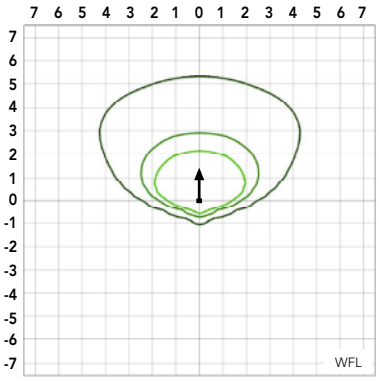
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RSX Area homepage.

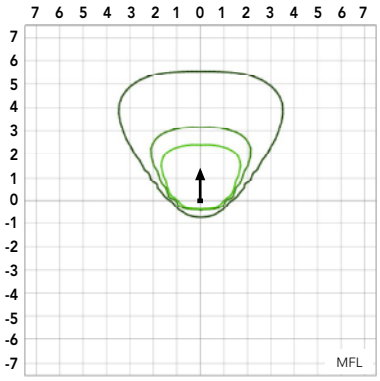
Isofootcandle plots for the RSXF1 LED P4 40K. Distances are in units of mounting height (20').

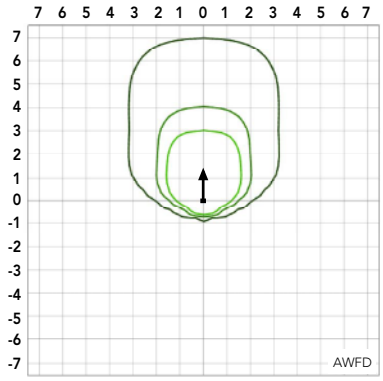
LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc

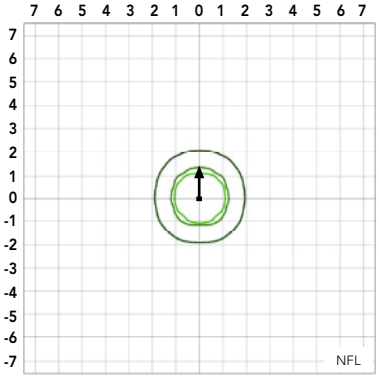
Luminaires tilted at 45°

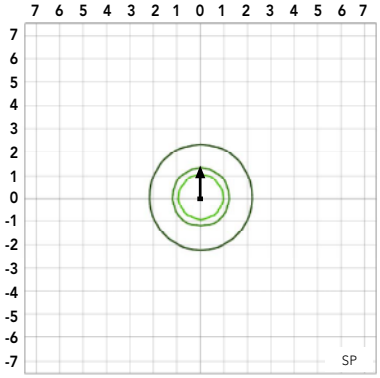


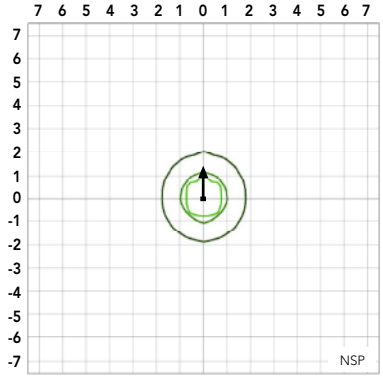




Luminaires tilted at 0°







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

		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.

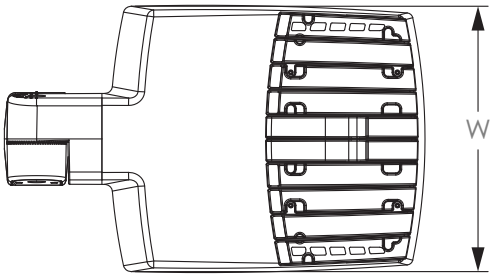
Lumen Output

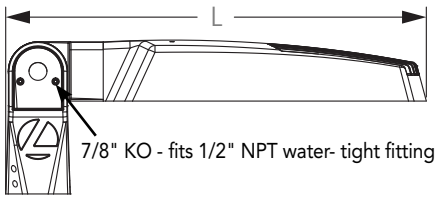
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

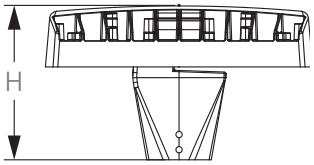
Performance Package	System Watts	Distribution. Type	Field Angle		Beam Angle		30K (3000K, 70 CRI)			40K (4000K, 70 CRI)			50K (5000K, 70 CRI)		
			°H	°V	°H	°V	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD
P1	51W	AWFD	119	120	69	41	6,660	131	5,455	7,318	143	5,994	7,318	143	5,994
		WFL	133	129	116	80	6,525	128	2,778	7,169	141	3,052	7,169	141	3,052
		MFL	105	110	91	96	6,805	133	3,089	7,477	147	3,394	7,477	147	3,394
		NFL	78	79	44	45	6,568	129	9,712	7,216	141	10,670	7,216	141	10,670
		SP	48	48	27	27	6,357	125	20,249	6,984	137	22,246	6,984	137	22,246
		NSP	42	44	19	21	6,469	127	34,157	7,107	139	37,525	7,107	139	37,525
P2	72W	AWFD	119	120	69	41	9,235	128	7,565	10,146	141	8,311	10,146	141	8,311
		WFL	133	129	116	80	9,048	126	3,852	9,941	138	4,232	9,941	138	4,232
		MFL	105	110	91	96	9,436	131	4,284	10,367	144	4,707	10,367	144	4,707
		NFL	78	79	44	45	9,107	126	13,466	10,006	139	14,795	10,006	139	14,795
		SP	48	48	27	27	8,814	122	28,076	9,684	135	30,847	9,684	135	30,847
		NSP	42	44	19	21	8,969	125	47,357	9,854	137	52,030	9,854	137	52,030
P3	109W	AWFD	119	120	69	41	13,149	121	10,771	14,447	133	11,834	14,447	133	11,834
		WFL	133	129	116	80	12,883	118	5,485	14,154	130	6,026	14,154	130	6,026
		MFL	105	110	91	96	13,435	123	6,099	14,761	135	6,701	14,761	135	6,701
		NFL	78	79	44	45	12,967	119	19,174	14,247	131	21,066	14,247	131	21,066
		SP	48	48	27	27	12,550	115	39,976	13,789	127	43,923	13,789	127	43,923
		NSP	42	44	19	21	12,771	117	67,432	14,031	129	74,085	14,031	129	74,085
P4	133W	AWFD	119	120	69	41	15,279	115	12,515	16,786	126	13,750	16,786	126	13,750
		WFL	133	129	116	80	14,969	113	6,373	16,446	124	7,002	16,446	124	7,002
		MFL	105	110	91	96	15,611	117	7,087	17,151	129	7,786	17,151	129	7,786
		NFL	78	79	44	45	15,067	113	22,279	16,554	124	24,478	16,554	124	24,478
		SP	48	48	27	27	14,583	110	46,452	16,022	120	51,036	16,022	120	51,036
		NSP	42	44	19	21	14,839	112	78,351	16,304	123	86,086	16,304	123	86,086

Dimensions

RSXF1 with Adjustable Slipfitter (IS)

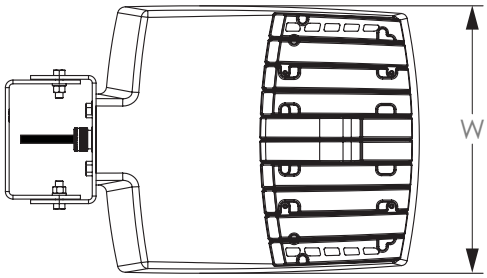


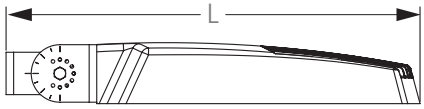




Length: 20.7" (52.7 cm)
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
7.6" (19.3 cm) Arm

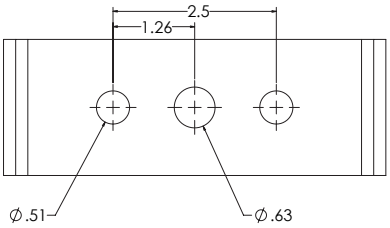
RSXF1 with Yoke (YKC62)





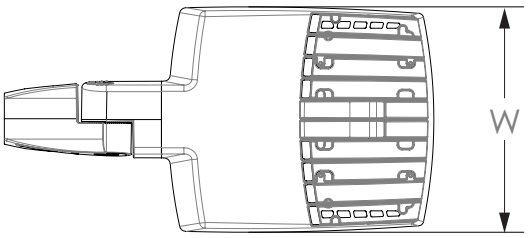
Length: 20.5" (52.1 cm)
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body

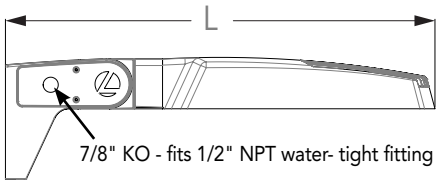
Yoke (YK) Mounting Detail

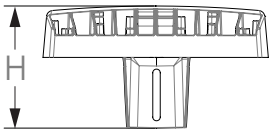


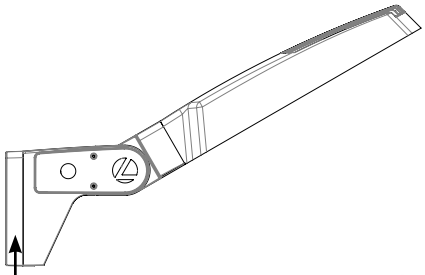
Dimensions

RSXF1 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)









Length: 25.3" (65.3 cm) **AASP**
26.3" (66.8 cm) **AARP**
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
7.2" (18.2 cm) Arm

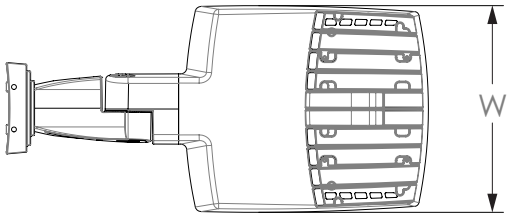
NOTE:
RPA - Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.

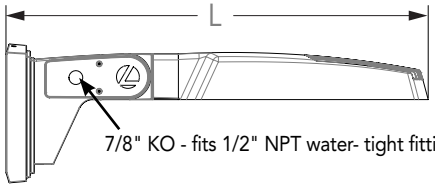
Notes

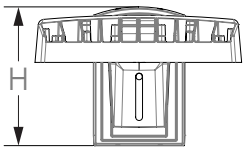
AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°.

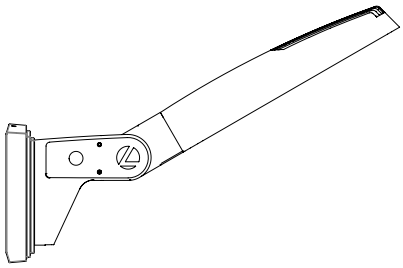
AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

RSXF1 with Adjustable Tilt Arm with Wall Bracket (AAWB)



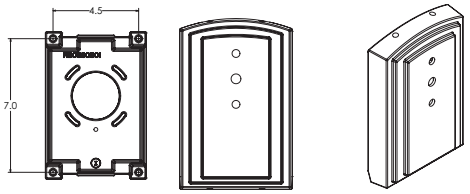






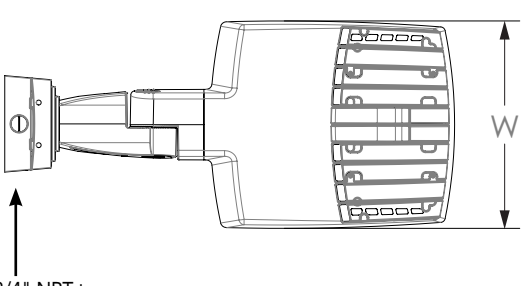
Length: 27.1" (68.8 cm)
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
8.9" (22.6 cm) Arm

Wall Bracket (WBA) Mounting Detail

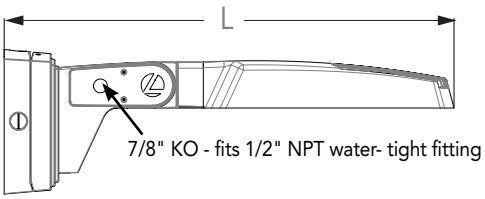


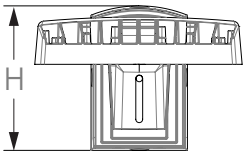
Dimensions

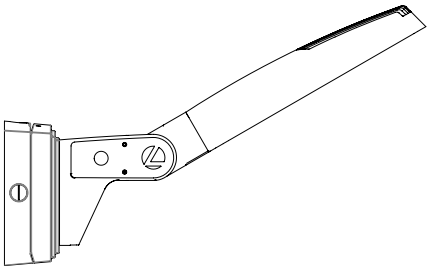
RSXF1 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)



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

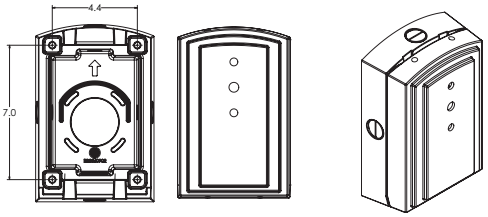




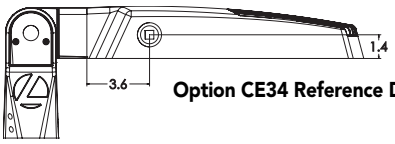


Length: 28.8" (73.2 cm)
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
9.2" (23.4 cm) Arm

Surface Conduit Box (SCB) Mounting Detail



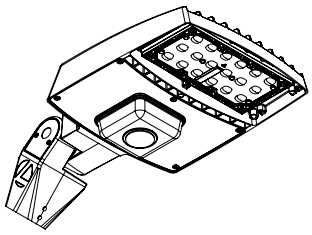
Additional Reference Drawings

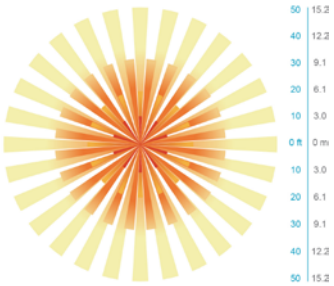


Option CE34 Reference Dimensions

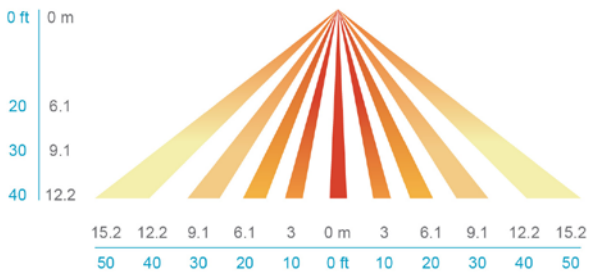
PIRHN nLight Sensor Coverage Pattern

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)
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 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 7,000 to 17,000 lumens and is ideal for replacing 70W to 400W HID floodlights 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 slipfitter 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. Vibration rated per ANSI 136.31: RSXF and mountings rated for 3G vibration include IS, YK, AASP and AARP. RSXF and mountings rated for 1.5G vibration include AAWB and AAWSC.

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 an Area Wide/Forward distribution pattern featuring a strong forward throw reach that is ideal for lighting large areas from the perimeter.

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 RSXF LED flood luminaire is also available with nLight® AIR which can be used for simple motion occupancy dimming or 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
The integral "IS" mount offers an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation, wiring and precision distribution pattern aiming. A steel yoke mount is also available and includes a water-tight cord grip and cord. Additional mountings are available including an adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications. All mountings are adjustable in 5° increments. RSXF 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 to confirm which versions are qualified.

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.