

RATIO FLOODLIGHT

MEDIUM AND LARGE

Cat.#

Job

Type



HUBBELL
Outdoor Lighting

Approvals

SPECIFICATIONS

Intended Use:

Medium and Large LED flood with a variety of NEMA distribution for lighting applications such as safety/security, accent, flag pole, columns, or signs

Construction:

- Corrosion resistant, rugged die-cast aluminum housing with powder coat paint finish
- High impact UV stabilized acrylic outer lens protects LEDs and allows for cleaning and debris removal
- Internal venting fins create optimal heat dissipation and allow all water to drain from the face of the luminaire
- Visor, Louver and Vandal Lens options
- Easy maintenance access to electrical components with removal of 4 screws from back of fixture housing
- Lens hardware is internal to the fixture allowing for even pressure on the gasket for an optimal water tight seal

Optical/LED:

- 176 or 360 midpower LEDs
- Ambient operating temperature -40°C to 40°C
- Stock Versions: 4000K and 5000K CCT
- Variety of NEMA distributions: - N (3x3), M (4x4), and W (6x6) - for wide range of lighting applications; Stock version Wide (6x6) only
- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance.

Electrical:

- 120-277V operation, 50/60Hz
- Driver IP66 and RoHS compliant driver
- 0-10V dimming driver standard, continuous dimming option to have leads pulled out for easy connection
- Drivers have 90% power factor and less than 20% THD

Electrical (cont'd):

- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- 10kA surge protector optional

Controls:

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V dimming leads available for use with control devices (provided by others, must specify lead length)
- SiteSync™ wireless control system is available via 7-pin and can be ordered separately. See ordering information and details at: www.hubbellighting.com/sitesync

Installation:

- Interchangeable knuckle and trunnion mounting options
- Knuckle arm fitter option available for 2-3/8" OD tenon. 180 degrees of adjustability (with no options). 4 degree adjustable increments
- Trunnion option available for surface and cross-arm mounting using (1) 3/4" or (2) 1/2" size through bolts

Listings:

- Fixture is IP66 rated
- Listed to UL1598 for use in wet locations

Warranty:

5 year limited warranty, for more information visit: <http://www.hubbellighting.com/resources/warranty/>

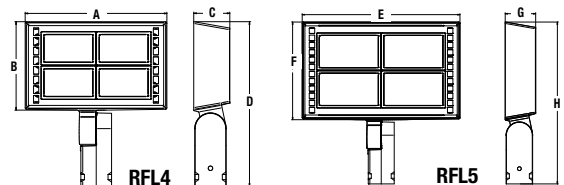
PRODUCT IMAGE(S)



RFL4

RFL5

DIMENSIONS



A	B	C	D	E
13.8"	8.6"	3.5"	16.0"	18.1"
351mm	218mm	89mm	406mm	460mm

F	G	H
6.0"	2.9"	9.3"
152mm	74mm	236mm

RFL4 EPA(Front/Side)	RFL5 EPA(Front/Side)
1.24ft ² / 0.43ft ²	2.00ft ² / 0.50ft ²

CERTIFICATIONS/LISTINGS



ORDERING INFORMATION

ORDERING EXAMPLE: RFL4-176-95-4KL-M-UNV-K-GYS

SERIES	# LEDS	WATTS	CCT/CRI	DISTRIBUTION	VOLTAGE	COLOR	CONTROL OPTIONS	OPTIONS
RFL4	Ratio Flood Size 4	176 176 LEDs 120 15,000 lm	95 12,000 lm 4K7 4000K, 70 CRI	N Narrow, 2x2 M Medium Flood, 4x4	UNV Universal 120-277 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	GYS Light gray smooth DB Dark bronze textured BL Black textured GT Graphite Textured WH White textured CC Custom Color	NXWE NX Wireless Enabled (module + radio) NXSPW_F ¹ NX Wireless, PIR Occ. Sensor, Daylight Harvesting, 14' NXSP_F ¹ NX, PIR Occ. Sensor, Daylight Harvesting, 14'	SP Surge Protector F Fusing PCL Polycarbonate Lens
RFL5	Ratio Flood Size 5	360 360 LEDs 130 18,000 lm 190 25,000 lm 265 32,000 lm	5K7 5000K, 70 CRI	W Wide Flood, 6x6			CONTROL OPTIONS OTHER SCP_F ² Programmable occupancy sensor 7PR 7-Pin twist lock receptacle 7PR-SC 7-Pin receptacle with shorting cap 7PR-MD_F ² Low voltage sensor for 7PR 7PR-TL 7-Pin PCR with photo control	

MOUNTING

- K Knuckle
- T Trunnion

¹ Replace " " with "14" for up to 14' mounting height, "30F" for 15-30' mounting height
² Replace " " with "8" for up to 8' mounting height, "40F" for 9-40' mounting height

STOCK ORDERING INFORMATION NEXT PAGE



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Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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ORDERING INFORMATION - STOCK

CATALOG DESCRIPTION	MOUNTING	DISTRIBUTION	WATTAGE	VOLTAGE	CCT	LUMENS	WEIGHT LBS. (KG)	FINISH
RFL4-176L-120-5K-W-U-K-DB*	Knuckle	Wide	124	120-277V	5000K	14432	16.0 (7.26)	Bronze
RFL4-176L-120-4K-W-U-K-DB*	Knuckle	Wide	124	120-277V	4000K	14360	16.0 (7.26)	Bronze
RFL4-176L-120-5K-W-U-T-DB*	Trunnion	Wide	124	120-277V	5000K	14432	16.0 (7.26)	Bronze
RFL4-176L-120-4K-W-U-T-DB*	Trunnion	Wide	124	120-277V	4000K	14360	16.0 (7.26)	Bronze
RFL5-360L-265-5K-W-U-K-DB*	Knuckle	Wide	266	120-277V	5000K	30649	25.7 (11.66)	Bronze
RFL5-360L-265-4K-W-U-K-DB*	Knuckle	Wide	266	120-277V	4000K	30496	25.7 (11.66)	Bronze
RFL5-360L-265-5K-W-U-T-DB*	Trunnion	Wide	266	120-277V	5000K	30649	25.7 (11.66)	Bronze
RFL5-360L-265-4K-W-U-T-DB*	Trunnion	Wide	266	120-277V	4000K	30496	25.7 (11.66)	Bronze

*Also available with Photocontrol

ACCESSORIES/REPLACEMENT PARTS - Order Separately

Catalog Number	Description
RFL4-TV	Top Visor - RFL4
RFL4-FL	Louver - RFL4
RFL5-TV	Top Visor - RFL5
RFL5-FL	Louver - RFL5
TRN-XX ¹	Trunnion adaptor for 1/2" threaded knuckle mount

¹ Specify finish color to match fixture, e.g. DB - Bronze.



Visor

Louver

Hubbell Control Solutions - Accessories (sold separately)

Catalog Number	Description	HCS System
NXOFM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE® Lighting Control

SiteSync 7-Pin Module



- All of the SiteSync Features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Available on all products that have a 7-Pin receptacle



PERFORMANCE DATA

Series	Nominal wattage	SYSTEM WATTS	DIST. TYPE	NEMA	FIELD ANGLE H° X V°	5K (5000K nominal, 70 CRI)			4K (4000K nominal, 70 CRI)			3K (3000K nominal, 70 CRI)		
						LUMENS	LPW ¹	MAX BEAM CANDLEPOWER	LUMENS	LPW ¹	MAX BEAM CANDLEPOWER	LUMENS	LPW ¹	MAX BEAM CANDLEPOWER
RFL4	165	104W	N	2 x 2	20° x 20°	13817	133		13748	132		12529	120	
			M	4 x 4	57° x 57°	13972	134		13902	134		12670	122	
			W	6 x 6	105° x 105°	13661	131		13594	131		12388	119	
	210	124W	N	2 x 2	20° x 20°	14596	118		14523	118		14523	118	
			M	4 x 4	57° x 57°	14760	120		14686	119		14686	119	
			W	6 x 6	105° x 105°	14432	117		14360	116		14360	116	
RFL5	115	136W	N	2 x 2	20° x 20°	18564	137		18472	136		17846	131	
			M	4 x 4	57° x 57°	18773	138		18680	137		18046	133	
			W	6 x 6	105° x 105°	18773	138		18680	137		17645	130	
	166	196W	N	2 x 2	20° x 20°	26039	133		25910	132		24488	125	
			M	4 x 4	57° x 57°	26332	134		26201	134		24763	126	
			W	6 x 6	105° x 105°	26332	134		26201	134		24213	124	
	220	266W	N	2 x 2	20° x 20°	30997	117		30843	116		30843	116	
			M	4 x 4	57° x 57°	31345	118		31189	117		31189	117	
			W	6 x 6	105° x 105°	30648	115		30496	115		30496	115	

¹ - Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.



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ELECTRICAL DATA

# LED's	Input Voltage [Volts]	Oper. Current [Amps]	System Power [Watts]
RFL4	120	0.87	104
	208	0.50	
	240	0.43	
	277	0.38	
RFL4	120	1.03	124
	208	0.60	
	240	0.52	
	277	0.45	
RFL5	120	1.13	136
	208	0.65	
	240	0.57	
	277	0.49	
RFL5	120	1.63	196
	208	0.94	
	240	0.82	
	277	0.71	
RFL5	120	2.22	266
	208	1.28	
	240	1.11	
	277	0.96	

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	OPERATING HOURS - FSL-7					Calculated L70 (HOURS)
	0	25,000	50,000	¹ TM-21-11 60,000	100,000	
25°C / 77°F	1.00	0.96	0.94	0.91	0.83	>191,000
40°C / 104°F	0.99	0.95	0.93	0.93	0.81	>173,000

¹ - Samsung LM101B, 250mA

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

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

