

RATIO Flood

MEDIUM AI	ND LARGE
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LOCATION: DATE: PROJECT: TYPE: CATALOG #:

RFL4

RATIO

FEATURES

- · Medium and Large LED flood with a variety of NEMA distributions for lighting applications such as area safety/security, accent, flag pole columns, or signs
- · Part of the Ratio flood series, this luminaire was designed in cohesion with the site/area products to provide a sleek and timeless look
- · Features a dense optical array, providing reduced pixelation and increased visual comfort without compromising performance
- · Applications include safety/security, accent, flag pole, columns and signs



CONTROL TECHNOLOGY





SPECIFICATIONS

CONSTRUCTION

- Corrosion resistant, rugged die-cast aluminum housing with powder coatpaint 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 four screws from back of fixture housing
- · Lens hardware is internal to the fixture allowing for uniform pressure on the gasket for an optimal water tight seal

OPTICS

- 176 or 360 midpower LEDs
- Stock Versions: 4000K and 5000K CCT
- Variety of NEMA distributions: N (3x3), M (4x4), and W (6x6). 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

CONTROLS

· Photo control, occupancy sensor and wireless available for complete on/off dimming control

CONTROLS (CONTINUED)

- 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
- 0–10V dimming driver standard, continuous dimming option to have leads pulled out for easy connection
- SiteSync™ wireless control system is available via 7-pin and can be ordered separately. See ordering information and details at: www.hubbelllighting.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 crossarm mounting using (1) 3/4" or (2) 1/2" size through bolts

ELECTRICAL

- 120–480V operation, 50/60Hz
- Driver IP66 and RoHS compliant driver
- Ambient operating temperature -40°C to 40°C. (265W configuration rated for 25°C)
- · 7-pin module can limit backwards rotation of the luminaire
- Drivers have 90% power factor and less than 20% THD



RELATED PRODUCTS

8 RATIO Family	8 <u>RFL1</u>	8 <u>RFL2</u>	8 <u>RFL3</u>
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CATALOG PAGE Ø INSTALL INSTRUCTIONS

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BROCHURE

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ELECTRICAL (CONTINUED)

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

CERTIFICATIONS

- · Fixture is IP66 rated
- Listed to UL1598 for use in wet locations
- DLC[®] (DesignLights Consortium Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org
- · This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See Buy American Solutions

WARRANTY

- 5 year limited warranty
- See <u>HLI Standard Warranty</u> for additional information

KEY DATA						
Lumen Range	12,000–30,000					
Wattage Range	124–266					
Efficacy Range (LPW)	116–125					
Reported Life (Hours)	L70>191,000					
Weights lbs. (kg)	16.0–25.7 (7.2–11.66)					





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STOCK ORDERING INFORMATION

Catalog Number	Mounting	Distribution	Wattage	Voltage	ССТ	Lumens	LPW	Weight lbs. (KG)	Finish
RFL4–120–5K–K	Knuckle	Wide	124	120-277V	5000K	14746	122	16.0 (7.26)	Bronze
RFL4–120–4K–K	Knuckle	Wide	124	120–277V	4000K	15119	125	16.0 (7.26)	Bronze
RFL4-120-5K-T	Trunnion	Wide	124	120-277V	5000K	14746	122	16.0 (7.26)	Bronze
RFL4-120-4K-T	Trunnion	Wide	124	120-277V	4000K	15119	125	16.0 (7.26)	Bronze
RFL5–265–5K–K	Knuckle	Wide	266	120-277V	5000K	29362	116	25.7 (11.66)	Bronze
RFL5-265-4K-K	Knuckle	Wide	266	120–277V	4000K	30106	119	25.7 (11.66)	Bronze
RFL5–265–5K–T	Trunnion	Wide	266	120-277V	5000K	29362	116	25.7 (11.66)	Bronze
RFL5-265-4K-T	Trunnion	Wide	266	120–277V	4000K	30106	119	25.7 (11.66)	Bronze
RFL-TRN-XX ¹	Trunnion Acce	Trunnion Accessory Kit							

1 Specify finish color to match fixture

ORDERING GUIDE

odel	-	#1	.EDs Wa	attage	_	CCT/C	CRI		Distril	bution	_	Voltag	je	— Mo	unting
FL4 FL5	Ratio Flood Size 4 Ratio Flood Size 5	17 36 36	6L-95 6L-120 0L-130 0L-190 0L-265	360 LEDs-25000lm		3K7 4K7 5K7	3000K, 70 CRI 4000K, 70 CRI 5000K, 70 CRI		M	Narrow, 2x2 Medium Flood, 4x Wide Flood, 6x6	4	UNV 120 208 240 277 347 480	Universal 120–277 120V 208V 240V 277V 347V 480V	K	Knuckle Trunnion
					7_			_	С	Control Options					
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olor			Contro	ol Options		Optio	ns		Ν	NX Standalone					
	Black Matte Textured			ol Options Button style photocontrol		Optio SP	ns Surge Protector		Ν	NX Standalone NXSP14F ¹			. Sensor, Dayli	ght Har	vesting, up to
LT	Black Matte Textured Black Gloss Smooth		PC						<u>1</u>	NXSP14F ¹	mount	ing heigh	nt		<u> </u>
LT LS		Ŀ	PC	Button style photocontrol		SP	Surge Protector		1		mount NX, PI	ing heigh	nt Sensor, Dayli		<u> </u>
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LT LS PBT PBS GTT GS SS /HT	Black Gloss Smooth Dark Bronze Matte Textured Dark Brone Gloss Smooth Graphite Matte Textured Light Grey Gloss Smooth Platinum Silver Smooth White Matte Textured	ŧ	PC	Button style photocontrol		SP	Surge Protector		_	NXSP14F ¹ NXSP30F ¹ <u>NX Networked – V</u> NXSPW14F ¹	mount NX, PIF mount Vireles NX Wi Harves NX Wi Harves	ing heigh R BT Occ ing heigh <u>s</u> reless, Pll sting, up 1 reless, Pll	nt Sensor, Daylig It R, BT Occupar to 12' mounting R, BT Occupar -30' mounting	ght Han ncy Sen g height ncy Sen	vesting, 14'—31 sor, Daylight
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RATIO Flood MEDIUM AND LARGE

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ACCESSORIES AND REPLACEMENT PARTS (ORDERED SEPARATELY)

Catalog Number	Description
RFL4-TV-XX ¹	Top Visor - RFL4
RFL4–FL–XX ¹	Louver - RFL4
RFL5-TV-XX ¹	Top Visor - RFL5
RFL5-FL-XX ¹	Louver - RFL5

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

HUBBELL CONTROL SOLUTIONS ACCESSORIES

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 IntelligenceTM
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiCSCAPE [®] Lighting Control

CONTROL ACCESSORIES

Catalog Number	Description
SW7PR	SiteSyncTM on fixture module via 7PR
SWUSB	SiteSyncTM Software on USB
SWTAB	SiteSyncTM Windows Tablet
SWBRG	SiteSyncTM Wireless Bridge Node
SWFC	SiteSyncTM Field Commission Serv
SCPREMOTE	Order at least one per project location to program and control
WIR-RME-L	wiSCAPETM external control node; use with 7PR
NXOFM-1R1D-UNV	NX external control node; use with 7PR

PERFORMANCE DATA

					(5000)	5K K nomina	I, 70 CRI)	(400	4k IOK nomi	nal, 70 CRI)	(300	3ł OK nomi	(inal, 70 CRI)
Series	Nominal Watts	Dist. Type	NEMA	Field Angle H X V	Lumens	LPW ¹	Max Beam Candlepower	Lumens	LPW ¹	Max Beam Candlepower	Lumens	LPW ¹	Max Beam Candlepower
		N	2 x 2	20 x 20	12594	135	213259	12913	140	218652	12510	136	211825
	95	М	4 x 4	57 x 57	11894	128	28457	12196	131	29177	11816	127	82866
RFL4		W	6 x 6	105 x 105	12355	132	7037	12668	135	7215	12272	131	6990
RFL4		N	2 x 2	20 x 20	15031	127	254521	15411	130	260957	14931	126	252810
	120	М	4 x 4	57 x 57	14196	119	33912	14555	122	34770	14102	118	33684
		W	6 x 6	105 x 105	14746	122	8399	15119	125	8611	14647	121	8343
		Ν	2 x 2	20 x 20	19019	145	322063	19501	149	330208	18892	144	319898
	130	М	4 x 4	57 x 57	17963	136	44645	18419	140	45774	17843	135	44345
		W	6 x 6	105 x 105	18658	140	10628	19131	144	10897	18534	139	10557
		N	2 x 2	20 x 20	25278	134	428052	25918	139	438877	25110	133	425174
RFL5	190	М	4 x 4	57 x 57	23875	126	58831	24478	129	60319	23714	125	58436
		W	6 x 6	105 x 105	24799	129	14126	25427	133	14483	24634	128	14031
		N	2 x 2	20 x 20	29930	120	30685	30688	123	519638	29730	120	503414
	265	М	4 x 4	57 x 57	28268	113	68911	28983	119	70654	28078	112	68448
		W	6 x 6	105 x 105	29362	116	30106	30106	119	17148	29167	115	16612

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 enduser environment and application.





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CONTROLS

NX Distributed Intelligence[™] Lighting Controls:

Supports both indoor and outdoor applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync Color Tuning Technology.

NX Integrated Controls Reference								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
NX Standalone	NX Standalone							
NXSP14F	NXSMP-LMO	No	Yes	Yes	Yes	Yes	Yes	Yes
NXSP30F	NXSMP-HMO	No	Yes	Yes	Yes	Yes	Yes	Yes
NX Networked	NX Networked – Wired							
NXSPW14F	NXSMP-LMO	Yes	Yes	Yes	Yes	Yes	Yes	Yes, Bluetooth App
NXSPW30F	NXSMP-HMO	Yes	Yes	Yes	Yes	Yes	Yes	Yes, Bluetooth App
NXWE	N/A	Yes	Yes	No	No	Yes	Yes	No. See footnote

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

SiteSync

ELECTRICAL DATA

# LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (W)	
		120	0.78		
	95	208	0.45	00 5	
		240	0.39	93.5	
RFL4		277	0.34		
KFL4		120	1.00		
	120	208	0.58	120.2	
	120	240	0.50	120.2	
		277	0.43		
	130	120	1.11		
		208	0.58	132.6	
		240	0.50		
		277	0.43		
RFL5		120	1.59		
		208	0.92	191	
		240	0.80	191	
		277	0.69		
	265	120	2.10		
		208	1.21	252	
		240	1.05	202	
		277	0.91		

Ø NX Design & Application Guide

NX DISTRIBUTED^{**} INTELLIGENCE





RATIO Flood

DATE:	LOCATION:
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PROJECTED LUMEN MAINTENANCE

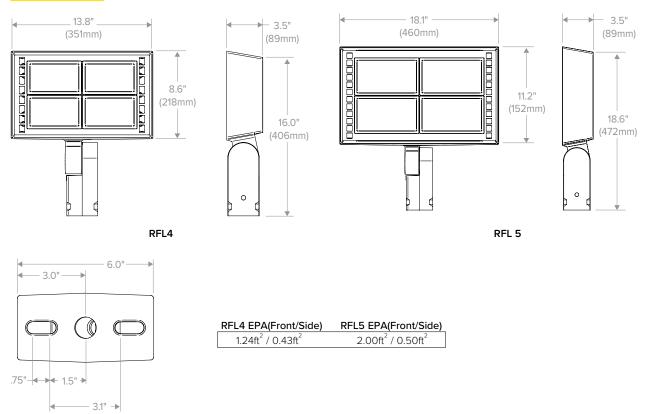
Ambient Temperature						
	0	25,000	50,000	TM-21-11 60,000 ¹	100,000	Calculated L70 (Hours)
25°C / 77°C	1.00	0.96	0.94	0.91	0.83	> 191,000
40°C / 104°F	0.99	0.95	0.93	0.93	0.81	> 173,000

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Te	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 $0-50^{\circ}C$ (32-122°F)

DIMENSIONS



Trunnion Mount





Flood MEDIUM AND LARGE

DATE:	LOCATION:
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ADDITIONAL INFORMATION

SHIPPING INFORMATION

Catalon Number		Carton Dimensions				
Catalog Number	G.W (kg)/CTN	Length Inch (cm)	Width Inch (cm)	Height Inch (cm)		
RFL4	15lbs (6.8kg)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)		
RFL5	19lbs (8.6kg)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)		

ACCESSORIES





Visor



CONTROL IMAGES



Occupancy Sensor



Hubbell Controls Solutions' NX Distributed Intelligence™



Photocontrol



7-Pin Receptacle

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