

# RATIO LED SERIES AREA/SITE LIGHTER

Cat.#

Job

Type



**HUBBELL**  
Outdoor Lighting

Approvals

## SPECIFICATIONS

### Intended Use:

Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots.

### Construction:

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications.
- Diecast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish

### Optics/LED:

- 80, 160, 320 or 480 midpower LEDs

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance

- 3000K, 4000K, or 5000K (70 CRI) CCT

- Zero uplight at 0 degrees of tilt

### Electrical:

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40° C to 40° C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20KA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is consumed

### 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](http://www.hubbellighting.com/sitesync)

### Installation:

- Standard square arm mounts
- Optional universal mounting block and round pole adapter also available as accessories
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (restrictions apply for 7-pin options)

### Warranty:

Five year limited warranty (for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>)

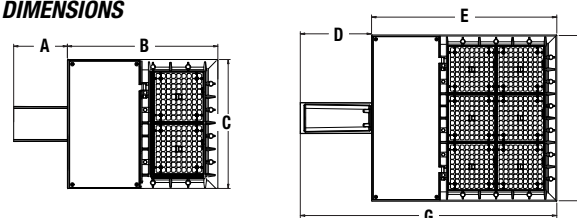
### Listings:

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt

## PRODUCT IMAGE(S)

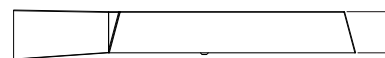
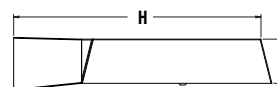


## DIMENSIONS



RAR-1

RAR-2



A	B	C	D	E	F	G	H	I	Weight
5.0"	14.0"	12.0"	7.5"	19.5"	17.39"				RAR-1 13.5 lbs (6.12 kgs)
127mm	355.6mm	304.8mm	190.5mm	495.3mm	441.7mm				RAR-2 24.0 lbs (10.8 kgs)
						27.0"	18.2"	3.25"	
						685.8mm	462.8mm	82.5mm	

## CERTIFICATIONS/LISTINGS



## ORDERING INFORMATION - STOCK CONFIGURATIONS

CATALOG DESCRIPTION	MOUNTING	DISTRIBUTION	WATTAGE	VOLTAGE	CCT	LUMENS	WEIGHT LBS. (KG)	Finish
RAR-1-160L-100-4K7-4-UNV-ASQ-DB	Arm	Type III	100W	120-277V	4000K	12,000	14 (6)	Bronze
RAR-1-160L-100-4K7-4-UNV-ASQ-DB	Arm	Type IV	100W	120-277V	4000K	12,000	14 (6)	Bronze
RAR-2-320L-140-4K7-3-UNV-ASQ-DB	Arm	Type III	140W	120-277V	4000K	18,000	24 (11)	Bronze
RAR-2-320L-140-4K7-4-UNV-ASQ-DB	Arm	Type IV	140W	120-277V	4000K	18,000	24 (11)	Bronze
RAR-2-320L-165-4K7-3-UNV-ASQ-DB	Arm	Type III	165W	120-277V	4000K	21,000	24 (11)	Bronze
RAR-2-320L-165-4K7-4-UNV-ASQ-DB	Arm	Type IV	165W	120-277V	4000K	21,000	24 (11)	Bronze

## CONFIGURABLE ORDERING INFORMATION NEXT PAGE



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## ORDERING INFORMATION

ORDERING EXAMPLE: RFL2-80L-3K7-FR-UNV-ASQ-BL-NXWE-BC

SERIES	# LEDS WATTAGE	OPTICS ROTATION	COLOR	CONTROL OPTIONS NETWORK	OPTIONS
<b>RAR1</b> Ratio Area Size 1	<b>80L-25</b> 80 LEDs - 25w <b>80L-50</b> 80 LEDs - 50w <b>160L-70</b> 160 LEDs - 70w <b>160L-100</b> 160 LEDs - 100w	Blank for no rotation <b>L</b> Optic rotation left <b>R</b> Optic rotation right	<b>BL</b> Black textured <b>DB</b> Dark bronze textured <b>GT</b> Graphite textured <b>GYS</b> Light gray smooth <b>PS</b> Platinum silver smooth <b>WH</b> White textured <b>CC</b> Custom Color	<b>NXWE</b> NX Wireless Enabled (module + radio) <b>NXSPW_F<sup>2</sup></b> NX Wireless, PIR Occ. Sensor, Daylight Harvesting <b>NXSP_F<sup>2</sup></b> NX, PIR Occ. Sensor, Daylight Harvesting	<b>BC</b> Backlight Control <b>SF</b> Single Fuse <b>DF</b> Double Fuse <b>TB</b> Terminal Block <b>2PF</b> 2 power feed with 2 drivers
<b>RAR2</b> Ratio Area Size 2	<b>320L-110</b> 320 LEDs - 110w <b>320L-140</b> 320 LEDs - 140w <b>320L-165</b> 320 LEDs - 165w <b>480L-185</b> 480 LEDs - 185w <b>480L-210</b> 480 LEDs - 210w <b>480L-240</b> 480 LEDs - 240w	<b>DISTRIBUTION</b> <b>2</b> IES TYPE II <b>3</b> IES TYPE III <b>4</b> IES TYPE IV <b>5</b> TYPE V	<b>VOLTAGE</b> <b>UNV</b> Universal 120-277V <b>347</b> 347V <b>480</b> 480V	<b>CONTROL OPTIONS OTHER</b> <b>SCP-F<sup>3</sup></b> Programmable occupancy sensor <b>7PR</b> 7-Pin twist lock receptacle <b>7PR-SC</b> 7-Pin receptacle with shorting cap <b>7PR-MD-F<sup>3</sup></b> Low voltage sensor for 7PR <b>7PR-TL</b> 7-Pin PCR with photocontrol	
	<b>CCT/CRI</b> <b>3K7</b> 3000K, 70 CRI <b>4K7</b> 4000K, 70 CRI <b>5K7</b> 5000K, 70 CRI		<b>MOUNTING</b> <b>ASQ</b> Arm mount for square pole/flat surface <b>ASQU</b> Universal Arm mount for square pole/flat surface		
			<b>MOUNTING ROUND POLES</b> <b>A_1</b> Arm mount for round pole <b>A_U</b> Universal arm mount for round point		
			<b>MOUNTING OTHER</b> <b>WB</b> Wall Bracket <b>MAF</b> Mast Arm Fitter for 2-3/8" OD horizontal arm <b>K</b> Knuckle		

<sup>1</sup> Replace " " with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole

<sup>2</sup> Replace " " with "14" for up to 14' mounting height, "30F" for 15-30' mounting height

<sup>3</sup> Replace " " with "8" for up to 8' mounting height, "40F" for 9-40' mounting height

## STOCK - ACCESSORIES/REPLACEMENT PARTS - Order Separately

Catalog Number	Description
RARRPA3DB	Round pole adapter 3.5" TO 4.13"
RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13"
RARBC80L	Ratio backlight control 80L
RARBC160L	Ratio backlight control 160L
RARBC320L	Ratio backlight control 320L
RARBC480L	Ratio backlight control 320L

## CONTROLS ACCESSORIES - Order Separately

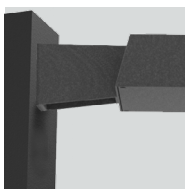
Catalog Number	Description
SW7PR	SiteSync™ on fixture module via 7PR
SWUSB	SiteSync™ Software on USB
SWTAB	SiteSync™ Windows Tablet
SWBRG	SiteSync™ Wireless Bridge Node
SWFC	SiteSync™ Field Commission Serv
SCPREMOTE	Order at least one per project location to program and control
WIR-RME-L	wiSCAPE™ external control node; use with 7PR
NX0FM-1R1D-UNV	NX external control node; use with 7PR

## ACCESSORIES/REPLACEMENT PARTS - Order Separately

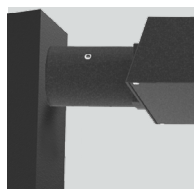
Catalog Number	Description
RAR-ASQU-XX	Universal arm mount for square pole/flat surface
RAR-A_U-XX	Universal arm mount for round poles
RAR-RPA-XX	Round pole adapter
TPLBARA3	Twin Parallel Luminaire Bracket
SETA2	4" square pole top tenon adapter, 2 3/8" OD slipfitter
RETA2	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90°); order 4" round pole adapters separately
TETA2	Three-sided pole top tenon adapter, 2 3/8" OD slipfitter
SPIKE	Bird Deterent
RARWB-XX	Wall Bracket - use with Mast Arm Fitter or Knuckle

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## MOUNTING



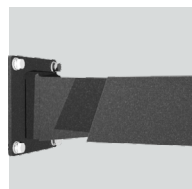
**Arm Mount** – Fixture ships with integral arm for ease of installation. Compatible with Hubbell Outdoor #2 drill pattern.



**MAF** – Fits 2-3/8" OD Roadway applications.



**Knuckle** – Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



**Wall Mount** – Wall mount bracket designed for building mount applications.



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