

# RATIO Series

RATIO LUMINAIRE AMBER



## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Uses true amber LED's unlike phosphor-converted amber LED's which still produce blue wavelength light that can still be disruptive to wildlife
- Control options including photo control, occupancy sensing, NX Lighting Controls™, and 7-Pin with networked controls
- Specially designed amber-colored LEDs produce light with a narrow spectral distribution that minimizes disruption to sea turtles and other wildlife
- LED's have a peak wavelength between 589-595 nm and a width of no more than 20nm at 50% power



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

### OPTICS

- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel
- Strike optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- 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)
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles

### 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 compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

### CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 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 Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard

### CONTROLS (CONTINUED)

- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor

### CERTIFICATIONS

- Meets FWC Guidelines for sea turtle nesting at coastal environments when combined with shielding
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- Fixture is IP66 rated
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225- 11). See Buy America(n) Solutions ([currentlighting.com/resources/america-solutions](http://currentlighting.com/resources/america-solutions)).

### WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	1421-13,610
Wattage Range	15-280
Efficacy Range (LPW)	48-84
Weight lbs. (kg)	13.7-30.9 (6.2-13.9)

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## STRIKE OPTIC – ORDERING GUIDE – AMBER ONLY

Example: RAR1-ST-36L-30-AM-2-UNV-ASQ-BLT

CATALOG # \_\_\_\_\_

RAR	Series	Size	Light Engine	CCT/CRI	Distribution	Optic Rotation	Voltage
RAR	Ratio	1 Size 1	<b>ST-36L-15</b> 15W 1,500 Lumens <sup>1</sup> <b>ST-36L-20</b> 20W 1,700 Lumens <sup>1</sup> <b>ST-36L-25</b> 25W 2,000 Lumens <sup>1</sup> <b>ST-36L-30</b> 30W 2,250 Lumens <sup>1</sup> <b>ST-36L-40</b> 40W 2,500 Lumens <b>ST-36L-50</b> 50W 2,800 Lumens <b>ST-36L-65</b> 65W 3,000 Lumens	AM monochromatic amber, 595nm	<b>FR</b> Auto Front Row <b>2</b> Type 2 <b>3</b> Type 3 <b>4F</b> Type 4 Forward <b>4W</b> Type 4 Wide <b>5QN</b> Type 5 Square Narrow <b>5QW</b> Type 5 Square Wide <b>5QM</b> Type 5 Square Medium <b>5W</b> Type 5 Wide (Round) <b>5RW</b> Type 5 Rectangular <b>C</b> Corner Optic <b>TC</b> Tennis Court Optic	<b>BLANK</b> <b>No Rotation</b> <b>L</b> Optic rotation left <b>R</b> Optic rotation right	<b>UNV</b> 120-277V <b>120</b> 120V <b>208</b> 208V <b>240</b> 240V <b>277</b> 277V <b>347</b> 347V <sup>2</sup> <b>480</b> 480V <sup>2</sup>
		2 Size 2	<b>ST-72L-35</b> 35W 2,900 Lumens <sup>1</sup> <b>ST-72L-45</b> 45W 3,500 Lumens <sup>1</sup> <b>ST-72L-55</b> 55W 4,000 Lumens <b>ST-72L-65</b> 65W 4,500 Lumens <b>ST-72L-80</b> 80W 5,000 Lumens <b>ST-72L-100</b> 100W 5,600 Lumens <b>ST-72L-125</b> 125W 6,000 Lumens <b>ST-108L-80</b> 80W 6,000 Lumens <sup>1</sup> <b>ST-108L-105</b> 105W 7,000 Lumens <b>ST-108L-130</b> 130W 8,000 Lumens <b>ST-108L-185</b> 185W 9,000 Lumens				
		3 Size 3	<b>ST-162L-120</b> 120W 9,000 Lumens <b>ST-162L-155</b> 155W 10,500 Lumens <b>ST-162L-200</b> 200W 12,000 Lumens <b>ST-162L-280</b> 280W 13,500 Lumens				

Mounting	Color	Options	Network Control Options
<b>A</b> Arm mount for square pole/flat surface <b>A_</b> Arm mount for round pole <sup>3</sup> <b>ASQU</b> Universal arm mount for square pole <b>A_U</b> Universal arm mount for round pole <sup>3</sup> <b>AAU</b> Adjustable arm for pole mounting (universal drill pattern) <b>AA_U</b> Adjustable arm mount for round pole <sup>3</sup> <b>ADU</b> Decorative upswept Arm (universal drill pattern) <b>AD_U</b> Decorative upswept arm mount for round pole <sup>3</sup> <b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm <b>K</b> Knuckle <b>T</b> Trunnion <b>WB</b> Wall Bracket, horizontal tenon with MAF	<b>BLT</b> Black Matte Textured <b>BLS</b> Black Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>DBS</b> Dark Bronze Gloss Smooth <b>GTT</b> Graphite Matte Textured <b>LGS</b> Light Grey Gloss Smooth <b>LGT</b> Light Grey Gloss Textured <b>PSS</b> Platinum Silver Smooth <b>WHT</b> White Matte Textured <b>WHS</b> White Gloss Smooth <b>VGT</b> Verde Green Textured <b>Color Option</b> <b>CC</b> Custom Color	<b>F</b> Fusing <b>2PF</b> Dual Power Feed <b>2DR</b> Dual Driver <b>BC</b> Backlight Control <b>TB</b> Terminal Block	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>4</sup> <b>NXWS40F</b> NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>4</sup> <b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>4</sup> <b>Stand Alone Sensors</b> <b>7PR</b> 7-Pin Receptacle <sup>5</sup> <b>7PR-SC</b> 7-Pin Receptacle with shunting cap <sup>5</sup> <b>3PR</b> 3-Pin twist lock <sup>5</sup> <b>3PR-SC</b> 3-Pin receptacle with shunting cap <sup>5</sup> <b>3PR-TL</b> 3-Pin PCR with photocontrol <sup>5</sup> <b>Programmed Controls</b> <b>ADD</b> AutoDim Timer Based Dimming <sup>5</sup> <b>ADT</b> AutoDim Time of Day Dimming <sup>5</sup> <b>SCP_</b> F Sensor Control Programmable, 8F or 40 <sup>6</sup>

1 – Not available with Dual Driver option  
 2 – Consult factory for availability in 347 or 480  
 3 – 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  
 4 – Networked Controls cannot be combined with other control options

5 – Not available with 2PF option  
 6 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft

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## OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

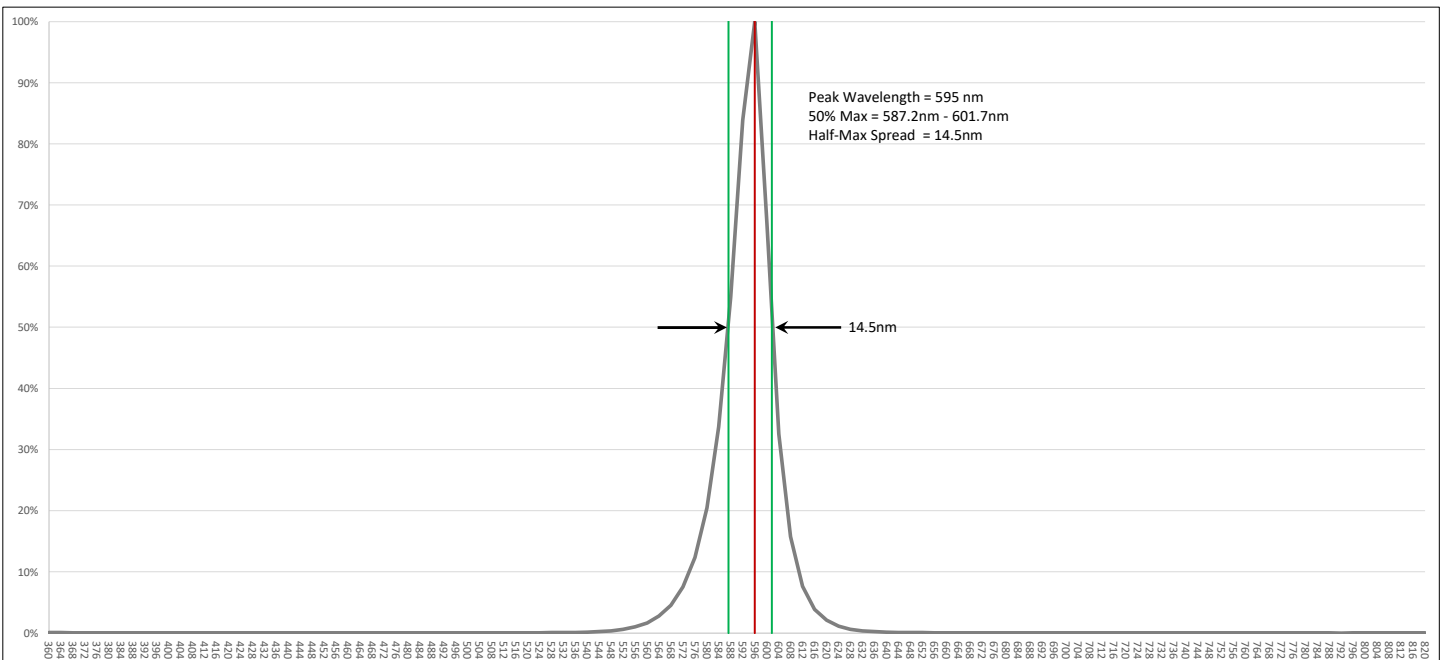
Catalog Number	Description
<input type="checkbox"/> RARRPA3DB	Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish
<input type="checkbox"/> RARA3UDB	Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish
<input type="checkbox"/> RARBC80L	Ratio backlight control 80L
<input type="checkbox"/> RARBC160L	Ratio backlight control 160L
<input type="checkbox"/> RARBC320L	Ratio backlight control 320L
<input type="checkbox"/> RARBC480L	Ratio backlight control 480L

## ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
<input type="checkbox"/> RAR-ASQU-XX	Universal arm mount for square pole/flat surface <sup>2</sup>
<input type="checkbox"/> RAR-A_U-XX	Universal arm mount for round poles <sup>1,2</sup>
<input type="checkbox"/> RAR-RPA_-XX	Round pole adapter <sup>1,2</sup>
<input type="checkbox"/> SETAVP-XX	4" square pole top tenon adapter, 2 3/8" OD slipfitter <sup>2</sup>
<input type="checkbox"/> RETAVP-XX	4" round pole top tenon adapter; 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately <sup>2</sup>
<input type="checkbox"/> BIRD-SPIKE-3	Ratio size 1 bird deterrent/spikes
<input type="checkbox"/> BIRD-SPIKE-4	Ratio size 2 bird deterrent/spikes
<input type="checkbox"/> RARWB-XX	Wall bracket - use with Mast Arm Fitter or Knuckle <sup>2</sup>

- 1 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
- 2 Replace "XX" with desired color/ paint finish

## SPECTRAL CHART











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## OUTDOOR LIGHTING CONTROLS OPTIONS    CONTROLS FUNCTIONALITY

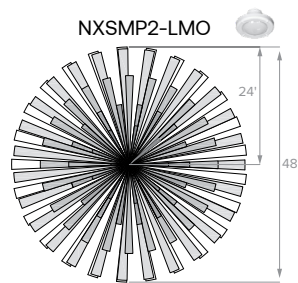
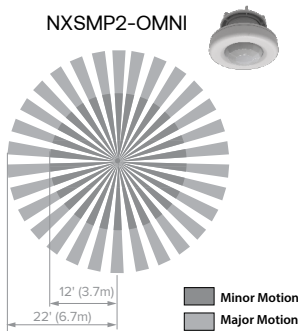
	Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components	
		Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
NX Wireless	NXOFMIRID-UNV	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM-IRID-UV
	NXW	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
	NXWS12F	✓	✓	✓	✓	✓	✓	✓	✓	12ft		NXSMP2-OMNI-O
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
Independent	BTSO-12F	-	-	-	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
	BTS-14F	-	-	-	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
	BTS-40F	-	-	-	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

### DEFAULT SETTINGS

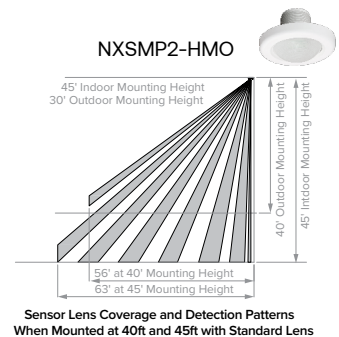
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	15 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0%
Daylight Sensor	Disabled
Bluetooth	Enabled
2.4GHz Wireless Mesh	On
"Passcode Factory Passcode: HubbN3T!"	Enabled

Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	8 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	50%
Daylight Sensor	Disabled

### NX WIRELESS COVERAGE PATTERNS



Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens



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## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&q=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&q=US)






Apple App

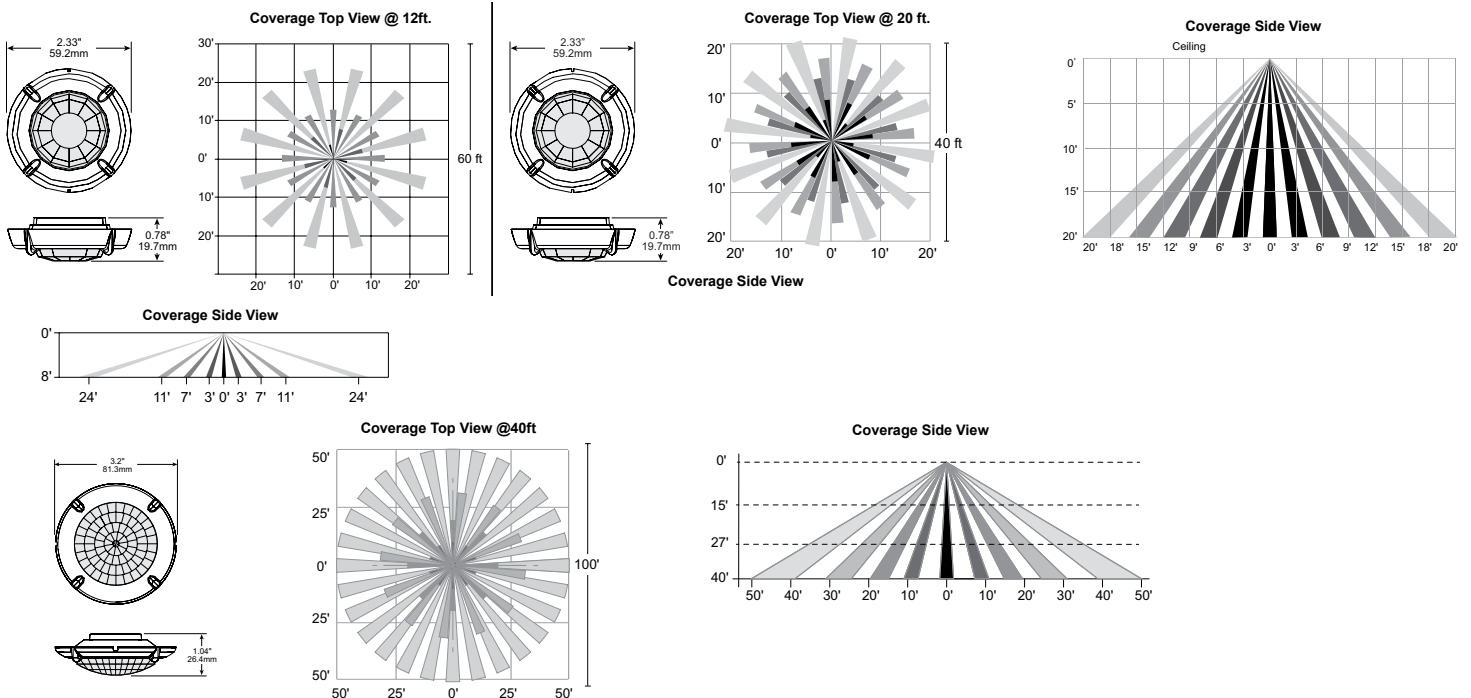


Google Play

## OUTDOOR LIGHTING CONTROLS OPTIONS    CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
SCP_F    Sensor Control Programmable, 8F or 40F	-	-	-	✓	✓	✓	✓	-	8ft or 40ft	SCP_F	
ADD    AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD	
ADT    AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT	
7PR    7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR	
7PR-SC    7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 7PR-SC	
3PR    3-Pin twist lock	-	-	-	-	-	-	Paired with external control	-	-	3PR	
3PR-SC    3-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 3PR-SC	
3PR-TL    3-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	 3PR-TL	

## COVERAGE PATTERNS FOR SCP\_F



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## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

## DELIVERED LUMENS

Description	Nominal Wattage	System Watts	Distribution Type	Lumens	LPW	B	U	G
RARI-36L-15-AM	15	17.3	FR	1476	85	0	0	0
			2	1436	83	0	0	1
			3	1421	82	0	0	1
			4F	1442	83	0	0	1
			4W	1423	82	0	0	1
			5QM	1466	85	1	0	0
			5QN	1467	85	1	0	0
			5QW	1364	79	1	0	1
			5RW	1435	83	1	0	1
			5W	1424	82	1	0	1
			C	1336	77	0	0	1
			TC	1463	85	0	0	0
RARI-36L-20-AM	20	22.0	FR	1792	81	0	0	0
			2	1744	79	0	0	1
			3	1725	78	0	0	1
			4F	1751	80	0	0	1
			4W	1728	79	0	0	1
			5QM	1780	81	1	0	0
			5QN	1781	81	1	0	0
			5QW	1659	75	1	0	1
			5RW	1742	79	1	0	1
			5W	1729	79	1	0	1
			C	1621	74	0	0	1
			TC	1777	81	0	0	0
RARI-36L-25-AM	25	29.6	FR	2067	70	0	0	0
			2	2008	68	1	0	1
			3	1987	67	0	0	1
			4F	2016	68	0	0	1
			4W	1990	67	0	0	1
			5QM	2050	69	1	0	0
			5QN	2051	69	1	0	0
			5QW	1904	64	2	0	1
			5RW	2006	68	2	0	2
			5W	1991	67	2	0	1
			C	1867	63	1	0	1
			TC	2046	69	0	0	0

DELIVERED LUMENS CONINUTED TO NEXT PAGE

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Description	Nominal Wattage	System Watts	Distribution Type	Lumens	LPW	B	U	G
RAR1-36L-30-AM	30	31.5	FR	2330	74	0	0	0
			2	2266	72	1	0	1
			3	2242	71	0	0	1
			4F	2275	72	0	0	1
			4W	2245	71	0	0	1
			5QM	2314	73	1	0	0
			5QN	2315	74	1	0	0
			5QW	2148	68	2	0	1
			5RW	2264	72	2	0	2
			5W	2247	71	2	0	1
			C	2108	67	1	0	1
			TC	2309	73	0	0	0
RAR1-36L-40-AM	40	38.9	FR	2618	67	0	0	0
			2	2546	65	1	0	1
			3	2519	65	1	0	1
			4F	2556	66	0	0	1
			4W	2523	65	0	0	1
			5QM	2600	67	1	0	0
			5QN	2601	67	1	0	0
			5QW	2418	62	2	0	1
			5RW	2544	65	2	0	2
			5W	2525	65	2	0	1
			C	2368	61	1	0	1
			TC	2595	67	0	0	0
RAR1-36L-50-AM	50	49.3	FR	2907	59	0	0	0
			2	2827	57	1	0	1
			3	2797	57	1	0	1
			4F	2838	58	0	0	1
			4W	2801	57	1	0	2
			5QM	2887	59	1	0	0
			5QN	2889	59	2	0	0
			5QW	2688	55	2	0	1
			5RW	2825	57	2	0	2
			5W	2804	57	2	0	1
			C	2630	53	1	0	1
			TC	2882	58	0	0	0
RAR1-36L-65-AM	65	62.3	FR	3092	50	0	0	0
			2	3008	48	1	0	1
			3	2976	48	1	0	1
			4F	3019	48	0	0	1
			4W	2980	48	1	0	2
			5QM	3070	49	2	0	0
			5QN	3072	49	2	0	0
			5QW	2856	46	2	0	1
			5RW	3005	48	2	0	2
			5W	2982	48	2	0	1
			C	2797	45	1	0	1
			TC	3066	49	0	0	10

DELIVERED LUMENS CONTINUED TO NEXT PAGE

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Description	Nominal Wattage	System Watts	Distribution Type	Lumens	LPW	B	U	G
RAR2-72L-35-AM	35	346	FR	2975	86	0	0	0
			2	2893	84	1	0	1
			3	2862	83	1	0	1
			4F	2904	84	0	0	1
			4W	2866	83	1	0	2
			5QM	2955	85	1	0	0
			5QN	2956	85	2	0	0
			5QW	2740	79	2	0	1
			5RW	2891	84	2	0	2
			5W	2870	83	2	0	1
			C	2691	78	1	0	1
			TC	2949	85	0	0	0
RAR2-72L-45-AM	45	43.9	FR	3585	82	1	0	0
			2	3487	79	1	0	1
			3	3450	79	1	0	1
			4F	3501	80	0	0	1
			4W	3456	79	1	0	2
			5QM	3560	81	2	0	0
			5QN	3562	81	2	0	0
			5QW	3306	75	2	0	1
			5RW	3484	79	2	0	2
			5W	3458	79	2	0	1
			C	3243	74	1	0	1
			TC	3553	81	1	0	1
RAR2-72L-55-AM	55	53.3	FR	4130	77	1	0	0
			2	4017	75	1	0	1
			3	3974	75	1	0	1
			4F	4033	76	1	0	1
			4W	3980	75	1	0	2
			5QM	4101	77	2	0	1
			5QN	4104	77	2	0	0
			5QW	3808	71	3	0	1
			5RW	4013	75	3	0	3
			5W	3984	75	3	0	1
			C	3736	70	1	0	1
			TC	4093	77	1	0	1
RAR2-72L-65-AM	65	63.1	FR	4658	74	1	0	0
			2	4531	72	1	0	1
			3	4483	71	1	0	2
			4F	4549	72	1	0	2
			4W	4490	71	1	0	2
			5QM	4626	73	2	0	1
			5QN	4629	73	2	0	0
			5QW	4296	68	3	0	2
			5RW	4527	72	3	0	3
			5W	4494	71	3	0	1
			C	4214	67	1	0	1
			TC	4617	73	1	0	1

DELIVERED LUMENS CONTINUED TO NEXT PAGE



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Description	Nominal Wattage	System Watts	Distribution Type	Lumens	LPW	B	U	G
RAR2-72L-80-AM	80	77.8	FR	5242	67	1	0	1
			2	5112	66	1	0	1
			3	5057	65	1	0	2
			4F	5132	66	1	0	2
			4W	5065	65	1	0	2
			5QM	5205	67	2	0	1
			5QN	5209	67	2	0	0
			5QW	4849	62	3	0	2
			5RW	5094	65	3	0	3
			5W	5056	65	3	0	1
			C	4741	61	1	0	2
			TC	5208	67	1	0	1
RAR2-72L-100-AM	100	98.6	FR	5835	59	1	0	1
			2	5677	58	1	0	1
			3	5617	57	1	0	2
			4F	5699	58	1	0	2
			4W	5625	57	1	0	2
			5QM	5795	59	2	0	1
			5QN	5798	59	2	0	0
			5QW	5390	55	3	0	2
			5RW	5671	58	3	0	3
			5W	5629	57	3	0	1
			C	5278	54	1	0	2
			TC	5785	59	1	0	1
RAR2-72L-125-AM	125	124.6	FR	6195	50	1	0	1
			2	6025	48	1	0	1
			3	5961	48	1	0	2
			4F	6048	49	1	0	2
			4W	5970	48	1	0	2
			5QM	6153	49	3	0	1
			5QN	6156	49	2	0	0
			5QW	5711	46	3	0	2
			5RW	6021	48	3	0	3
			5W	5976	48	3	0	1
			C	5604	45	1	0	2
			TC	6138	49	1	0	1
RAR2-108L-80-AM	80	79.9	FR	6195	78	1	0	1
			2	6025	75	1	0	1
			3	5961	75	1	0	2
			4F	6049	76	1	0	2
			4W	5970	75	1	0	2
			5QM	6153	77	3	0	1
			5QN	6156	77	2	0	0
			5QW	5711	71	3	0	2
			5RW	6021	75	3	0	3
			5W	5976	75	3	0	1
			C	5604	70	1	0	2
			TC	6139	77	1	0	1

DELIVERED LUMENS CONTINUED TO NEXT PAGE

# RATIO Series

RATIO LUMINAIRE AMBER

Description	Nominal Wattage	System Watts	Distribution Type	Lumens	LPW	B	U	G
RAR2-108L-105-AM	105	102.1	FR	7312	72	1	0	1
			2	7113	70	1	0	2
			3	7037	69	1	0	2
			4F	7141	70	1	0	2
			4W	7048	69	1	0	3
			5QM	7261	71	3	0	1
			5QN	7266	71	3	0	0
			5QW	6753	66	3	0	2
			5RW	7106	70	3	0	3
			5W	7053	69	3	0	2
			C	6614	65	1	0	2
			TC	7248	71	1	0	1
RAR2-108L-130-AM	130	131.8	FR	8363	63	1	0	1
			2	8134	62	1	0	2
			3	8048	61	1	0	2
			4F	8166	62	1	0	2
			4W	8060	61	1	0	3
			5QM	8305	63	3	0	1
			5QN	8310	63	3	0	0
			5QW	7718	59	3	0	2
			5RW	8127	62	3	0	3
			5W	8067	61	3	0	2
			C	7565	57	1	0	2
			TC	8289	63	1	0	1
RAR2-108L-185-AM	185	186.8	FR	9287	50	1	0	1
			2	9038	48	2	0	2
			3	8942	48	1	0	2
			4F	9074	49	1	0	2
			4W	8956	48	1	0	3
			5QM	9223	49	3	0	1
			5QN	9229	49	3	0	0
			5QW	8580	46	3	0	2
			5RW	9025	48	3	0	3
			5W	8959	48	3	0	2
			C	8401	45	2	0	2
			TC	9211	49	1	0	1
RAR3-162L-120-AM	120	119.9	FR	9287	77	1	0	1
			2	9036	75	2	0	2
			3	8940	75	1	0	2
			4F	9071	76	1	0	2
			4W	8953	75	1	0	3
			5QM	9223	77	3	0	1
			5QN	9229	77	3	0	0
			5QW	8563	71	3	0	2
			5RW	9025	75	3	0	3
			5W	8959	75	3	0	2
			C	8401	70	2	0	2
			TC	9207	77	1	0	1

DELIVERED LUMENS CONTINUED TO NEXT PAGE

# RATIO Series

RATIO LUMINAIRE AMBER

Description	Nominal Wattage	System Watts	Distribution Type	Lumens	LPW	B	U	G
RAR3-162L-155-AM	155	1531	FR	10970	72	1	0	1
			2	10669	70	2	0	2
			3	10556	69	1	0	3
			4F	10711	70	1	0	2
			4W	10572	69	1	0	3
			5QM	10895	71	3	0	2
			5QN	10901	71	3	0	0
			5QW	10123	66	4	0	3
			5RW	10661	70	4	0	4
			5W	10582	69	4	0	2
			C	9923	65	2	0	2
			TC	10870	71	1	0	2
RAR3-162L-200-AM	200	1976	FR	12543	63	1	0	1
			2	12202	62	2	0	2
			3	12073	61	2	0	3
			4F	12250	62	1	0	3
			4W	12091	61	1	0	3
			5QM	12456	63	3	0	2
			5QN	12464	63	3	0	0
			5QW	11607	59	4	0	3
			5RW	12189	62	4	0	4
			5W	12099	61	4	0	2
			C	11346	57	2	0	2
			TC	12432	63	1	0	2
RAR3-162L-280-AM	280	2803	FR	13923	50	1	0	1
			2	13556	48	2	0	2
			3	13413	48	2	0	3
			4F	13610	49	1	0	3
			4W	13433	48	2	0	4
			5QM	13827	49	3	0	2
			5QN	13836	49	4	0	0
			5QW	12863	46	4	0	3
			5RW	13531	48	4	0	4
			5W	13431	48	4	0	2
			C	12595	45	2	0	3
			TC	13812	49	1	0	2

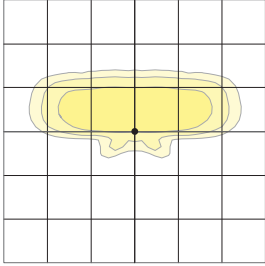
# RATIO Series

RATIO LUMINAIRE AMBER

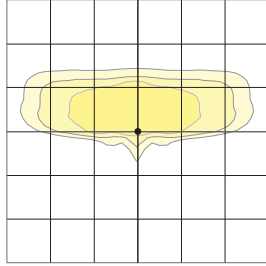
## OPTIC STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

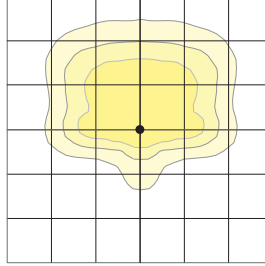
Type 2



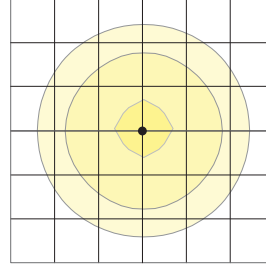
Type 3



Type 4 Forward

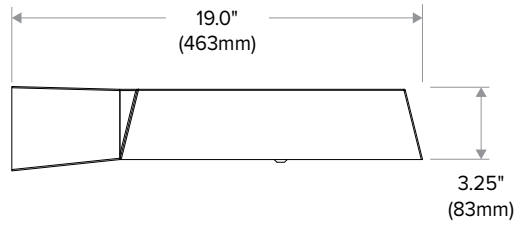
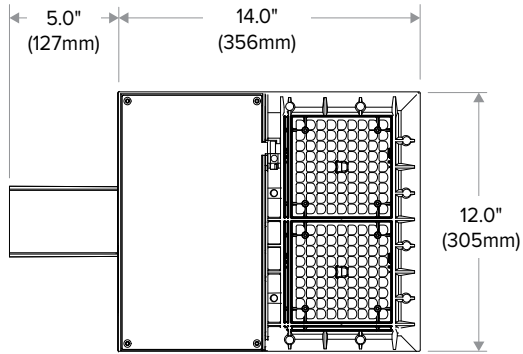


Type 5QW (round wide)

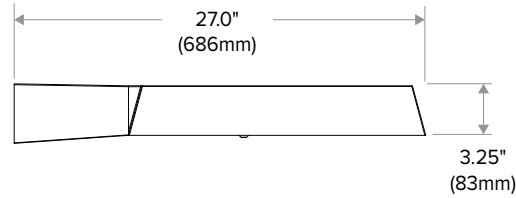
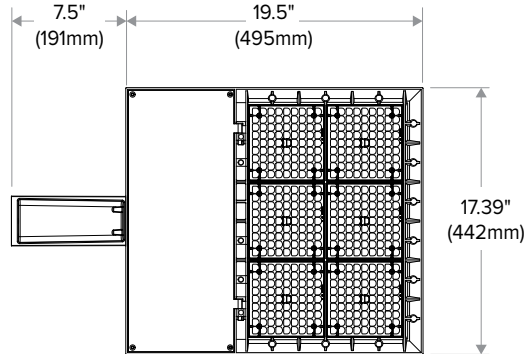


## DIMENSIONS

RAR1



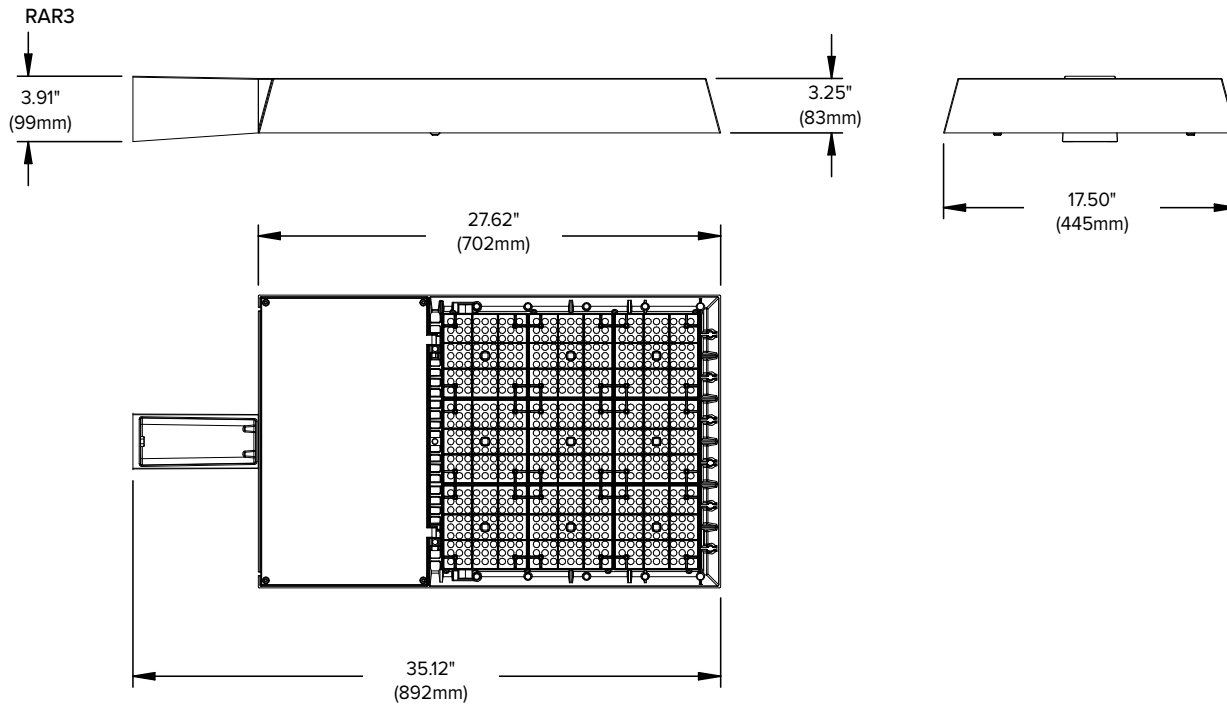
RAR2



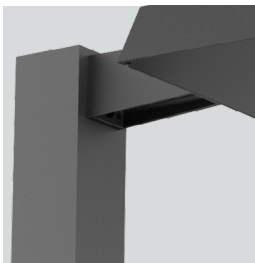
# RATIO Series

RATIO LUMINAIRE AMBER

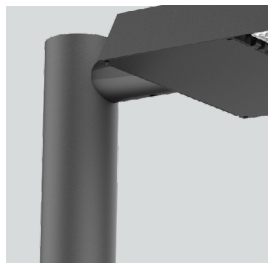
## DIMENSIONS CONTINUED



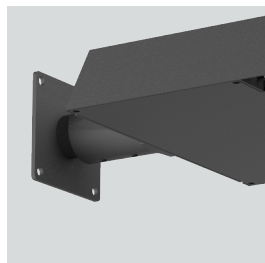
## MOUNTING



**Arm Mount** – Fixture ships with integral arm for ease of installation. Compatible with Hubbell Outdoor B3 drill pattern. Available on Area configurations.



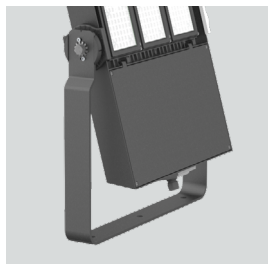
**MAF** – Fits 2-3/8" OD arms Roadway applications. Available on Area configurations.



**Wall Mount** – Wall mount bracket designed for building mount applications. Available on Area configurations.



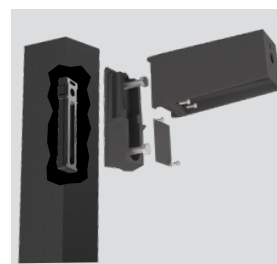
**Knuckle** – Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes. Available on Area and Flood configurations.



**Yoke** – For mounting directly to flat surfaces or crossarms. Available on flood configurations. RAR3 only.



**Trunnion** – For mounting directly to flat surfaces or crossarms. Available on flood configurations. RAR3 only.



**Universal Mounting** – Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and S2 and B3 drill patterns

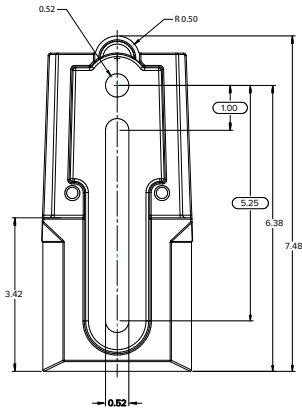
# RATIO Series

RATIO LUMINAIRE AMBER

## ADDITIONAL INFORMATION

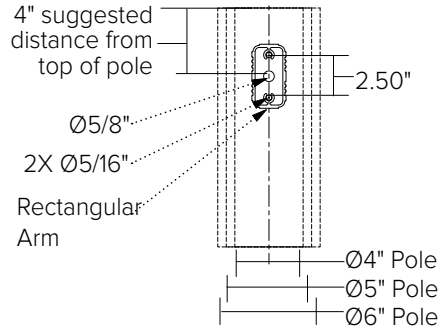
### MOUNTING CONTINUED

#### UNIVERSAL MOUNT

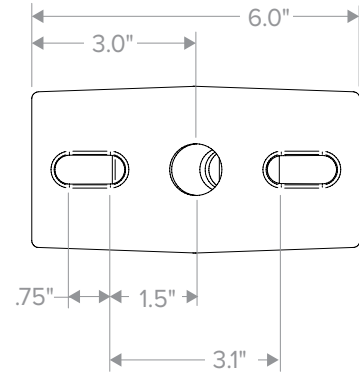


#### ARM MOUNT (ASQ)

Compatible with Pole drill pattern B3



#### TRUNNION MOUNT



	EPA			Config.
	RAR1 (Size 1)	RAR2 (Size 2)	RAR3 (Size 3)	
Single Fixture	0.43	0.52	1.1	
Two at 180	0.99	1.486	2.1	
Two at 90	0.62	0.87	1.5	
Three at 90	0.99	1.41	2.6	
Three at 120	0.89	1.25	2.6	
Four at 90	1.06	1.56	2.6	

	Weight	
	lbs	kgs
RAR1 (Size 1)	13.5	8.1
RAR2 (Size 2)	24.0	10.9
RAR3 (Size 3)	35.0	15.9