

# MATRIX

FLOODLIGHT

Cat.#

Job

Type



**BEACON**  
design . performance . technology

Approvals

## SPECIFICATIONS

### Intended Use:

The Beacon Matrix luminaire is available in three configurations with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

### Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge can be field replaced as a one piece optical system.
- Silicone gasket ensures a weather-proof seal around each individual optic.
- Glass enclosed optics enable high angle aiming.

### Electrical:

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (UNV), 347V, or 480V input.
- Power factor is  $\geq .90$  at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Fixture electrical compartment shall contain all LED driver components and optional push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20kA. ANSI/IEEE category C high

### Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see [www.beaconproducts.com/products/energeni](http://www.beaconproducts.com/products/energeni)).
- In addition, Matrix can be specified with **SiteSync™** wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: [www.hubbellighting.com/sitesync](http://www.hubbellighting.com/sitesync)

### Installation:

- Adjustable knuckle is designed to slip fit a 2 3/8" to 3" O.D. tenon.
- Luminaire can adjust in 5° increments (only when Twist Lock photocell is not being used).
- Photo control option can only be used when fixture is aimed below horizontal position.

### Finish:

- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

### Certifications/Ratings:

- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>
- Certified to UL 1598, UL 8750, and CSA C22.2 No. 250.0
- 1.5G rated for ANSI C136.31
- IP66 optical assembly
- IDA approved

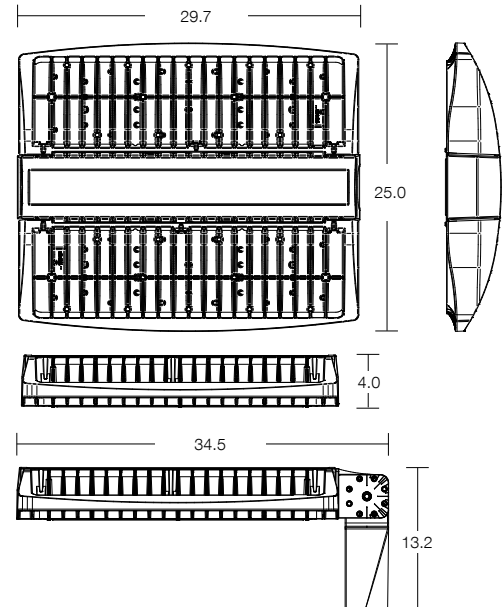
### Warranty:

Five year limited warranty for more information visit: [www.hubbellighting.com/resources/warranty](http://www.hubbellighting.com/resources/warranty)

## PRODUCT IMAGE(S)



## DIMENSIONS



Model	Mount	Weight lbs.	Weight kgs.	EPA, Sq. ft.
Flood	Knuckle, 0° Knuckle, 30°	86.0	39.1	1.7 3.8

## CERTIFICATIONS/LISTINGS



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

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

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**HUBBELL**  
Lighting

# ORDERING INFORMATION ORDERING EXAMPLE: MAF/196L-610/5K7/N/UNV/K/DB/7PR-SC

MA/F								
SERIES	ENGINE	CCT/CRI <sup>6</sup>	VOLTAGE	COLOR	CONTROL OPTIONS	OPTIONS		
MA/F Matrix	104L-265 265W, 30,000 lm	5K7 5000K, 70 CRI	UNV 120-277V	DB Dark Bronze Textured	7PR-TL <sup>6</sup> 7 pin PCR with photo control	FL Louver		
	104L-300 300W, 33,000 lm	4K7 4000K, 70 CRI	347 347V	BL Black Textured	7PR-SC 7 pin PCR with shorting cap	SF120 120V Fuse		
	104L-330 330W, 35,000 lm	3K7 3000K, 70 CRI	480 480V	WH White Textured	2PF 2 power feed with 2 drivers	SF277 277V Fuse		
	148L-380 380W, 42,000 lm	DISTRIBUTION		PS Plat. Silver Smooth	GENI <sup>1,2</sup> Energeni	SF347 347V Fuse		
	148L-425 425W, 46,000 lm		N 2x2 Flood	GYS Light Gray Smooth	PC <sup>1</sup> Button Photocell	DF208 208V Fuse		
	148L-470 470W, 50,000 lm		M 4x4 Flood	GT Graphite Textured	SCL/40F Low voltage sensor for 7PR-SC and wiSCAPE external control accessory	DF240 240V Fuse		
	192L-490 490W, 55,000 lm		W 6x6 Flood	TT Titanium Textured	SCP/40F <sup>1,3,4</sup> Programmable Line Voltage sensor	DF480 480V Fuse		
	192L-550 550W, 60,000 lm		TC Tennis Court	CC Custom Color	SWP <sup>1,5</sup> SiteSync Pre-Commission			
	192L-610 610W, 65,000 lm			MOUNTING	SWPM/40F <sup>1,5</sup> SiteSync Pre-Commission w/ Sensor			
				K Knuckle (5° adjustable fitter)				

<sup>1</sup> Not available with other sensor or wireless control options.

<sup>2</sup> Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table options.

<sup>3</sup> Photocell included with sensor, additional photocontrol not recommended.

<sup>4</sup> Order at least one SCPREMOTE per project location to program and control

<sup>5</sup> Specify group and zone at time of order. See [www.hubbell-automation.com/products/sitesync/](http://www.hubbell-automation.com/products/sitesync/) for more details. Order at least one SiteSync interface Accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.

<sup>6</sup> 7PR-TL shipped with shorting cap installed. Twist-lock photocell shipped with fixture. Installer must remove shorting cap and install photocell at time of installation.

<sup>7</sup> Requires 7PR-SC photocell receptacle. Include SCL/40F if occupancy sensing is required

Accessories and Services (Ordered Separately)

Control Accessories	
SWUSB	SiteSync Software on USB
SWTAB	SiteSync Windows Tablet
SWBRG	SiteSync Wireless Bridge Node
SCPREMOTE	Order at least one per project location to program and control
WIR-RME-L <sup>7</sup>	wiSCAPE external control node; use with 7PR

Accessories	
MAF-FL	Louver
MAF-FV-XX	Visor

**PRECOMMISSIONED SITESYNC ORDERING INFORMATION:** When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit [www.hubbell-automation.com/products/sitesync/](http://www.hubbell-automation.com/products/sitesync/) or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: MAF/196L-610/5K7/N/UNV/K/DB/SWP SiteSync only  
MAF/196L-610/5K7/N/UNV/K/DB/SWPM/40F SiteSync with Motion Control



SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.



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