



MATRIX[®]



Current 

Current - HLI Brands

701 Millennium Blvd.
Greenville, SC 29607

currentlighting.com/beacon

© 2022 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

(Rev 10/20/22)

Matrix_brochureBEA0025_R01

Current 

MATRIX®

One Product Family multiple configurations, Matrix optimizes performance, flexibility, output, efficiency and value. Offered in four mounting options, Matrix is ideal for high mounting height applications such as large parking areas, retail centers, distribution centers and perimeter lighting. Outputs begin at 30,000 lumens with maximum output exceeding 60,000 lumens.

Beacon Products' exclusive Strike Optics for Matrix deliver category leading performance. By maximizing target efficiency, Matrix ensures simple layout design that is high in uniformity and minimal in light trespass. This control reduces energy consumption, lowers installation costs, and improves visual acuity.

Advanced luminaire design separates Matrix from other area and site products. Matrix is designed for sustained, long-term performance with advanced thermal management, an elegantly simple heat sink and industry leading surge protection.

APPLICATIONS

HIGH MOUNTING HEIGHT



LARGE SITE



PERIMETER FLOOD



MATRIX[®]

PERFORMANCE
VALUE
FLEXIBILITY

Matrix combines superior luminaire design with excellent versatility, performance and value. Standard and specialty distributions make the Matrix the choice for high lumen, high mounting height applications with outputs exceeding 60,000 lumens. This enables higher foot candle averages and improves uniformity compared to legacy 1000 watt HID systems. Control options featuring Energini, and occupancy controls enable optimum energy-savings and customization.



Upswept Arm



Post Top



Knuckle



Mast Arm



Matrix flood with knuckle for large area applications. These luminaires are designed as direct replacements for 750 to 1000 watt HID luminaires with beam spreads to meet a variety of floodlighting requirements.

AREA/SITE

FLOOD

OPTICS STRIKE Precision Wins.

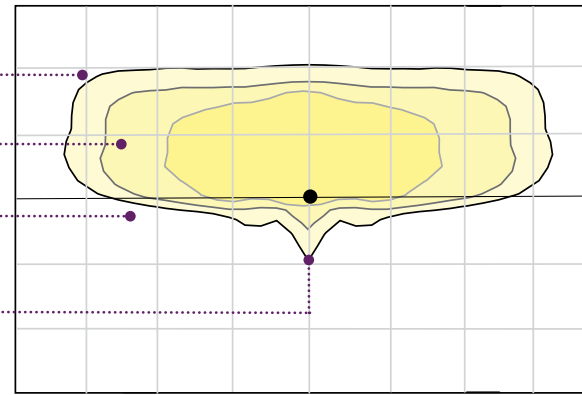
Wide, squared off corners simplify layout design and greatly improve uniformity by reducing contrast in transition zones from one luminaire to the next

Even distribution of intensity improves visual acuity

Wider illumination at the curb line allows for increased pole spacing: reducing material, installation, and operating costs

Low percentage of spill light at house side saves energy and reduces light trespass issues.

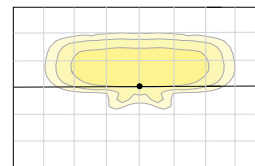
Matrix Strike Optic



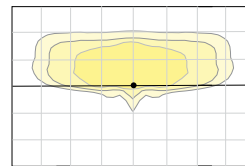
Type 3

AREA Strike Optics - Superior Control, Outstanding Efficiency.

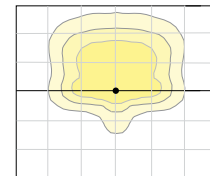
Type 2



Type 3

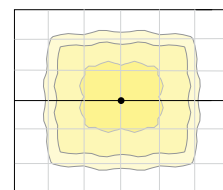


Type 4

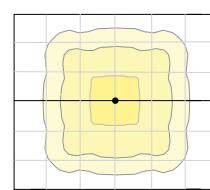


Symmetric Distributions - Flexibility in Application.

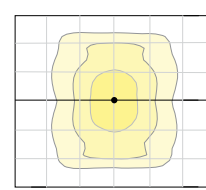
Type 5QW



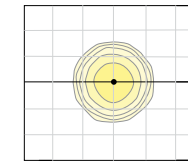
Type 5QM



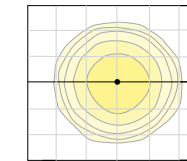
Type 5R



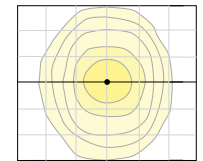
FLOOD Beam Spread



2x2



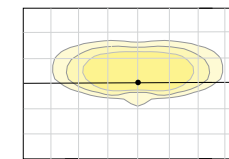
4x4



6x6

SPECIALTY OPTICS Automotive Front Row and Tennis Court

Front Row Applications

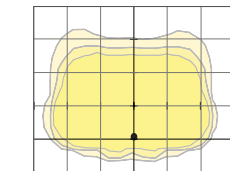


Type FR

The front row optic provides maximum illumination and performance for automotive dealership inventory and merchandising the "Front Row." The modern car dealership has evolved and so has lighting it.

- Maximum illumination specifically targeting the front row display
- Tremendous "house side" cutoff behind the pole to maximize the impact of front row merchandise and minimizes light trespass to adjoining properties
- Excellent lateral spread to increase pole spacing

Tennis Court Applications



Type TC

Specifically designed to enhance player and spectator experience in athletic venues, such as tennis courts and other specialty sport applications.

- Provides maximum illumination specifically targeting the court area
- Excellent uniformity and light levels



INTEGRATED CONTROLS



ENERGENI lighting control is a simple way for owners to save money by dimming the fixtures during unoccupied hours. **ENERGENI** has flexible setting options to work with fixtures activated by photocontrols or time clocks. The delay and dimming level options can be configured at the factory or reconfigured at will in the field without the need for special cables or computers.

Occupancy Sensors

Sensors control light output based on area utilization. Use for energy savings and local code compliance. (see control options)



Energeni

ENERGENI has flexible setting options to work with fixtures activated by photocontrols or time clocks. The delay and dimming level options can be configured at the factory or re-configured at will in the field without the need for special cables or computers.



SETTING OPTIONS

ENERGENI has 32 pre-programmed functional settings that can be selected with its five DIP switches. The combination of switch settings allows for options of set dimming, timed dimming with a simple delay or timed dimming based on hours of operation or time at night.

SET DIMMING

The set dimming option allows for a pre-set dimming level that occurs immediately after turning on the fixtures. This setting is ideal for applications where you want the flexibility to adjust light levels after installation.

DIMMING BASED ON TIME OF NIGHT

For applications looking for set dim level at night due to local code requirements or business operation, ENERGENI can be set to dim at approximately the same time each evening.

DIMMING BASED ON HOURS OF OPERATION

For applications that may want the lights to burn for a set number of hours, the ENERGENI can be set to dim after a fixed time has passed. Multiple delay and brightness options are available.

Occupancy Sensors

Controls in area/site applications save energy, extend luminaire life and allow customizable solutions.

SCP

- Programmable occupancy sensor with wireless configuration (ordered separately)
- Includes Photocontrol functionality
- Wide lens available
- For mounting heights up to 40 ft.

WSP

- Occupancy sensor with photocontrol functionality included
- High voltage 347-480V applications
- For mounting heights up to 40 ft.

SCL

- Low voltage occupancy sensor for use with external control systems enabled via 7 pin receptacle (7PR)

AREA ORDERING INFORMATION

ORDERING EXAMPLE: MA/A/96L-555/5K7/2/UNV/ASQ/DBT/7PR-TL/BC

SERIES	ENGINE	CCT/CRI ⁷	ROTATION	COLOR	CONTROL OPTIONS	OPTIONS
MA/A Matrix	80L-260 260W, 33,000 lm 96L-315 315W, 40,000 lm 64L-325 325W, 37,000 lm 64L-370 370W, 40,000 lm 80L-405 405W, 45,000 lm 80L-465 465W, 50,000 lm 96L-490 490W, 55,000 lm 96L-555 555W 60,000 lm	5K7 5000K, 70 CRI 4K7 4000K, 70 CRI 3K7 3000K, 70 CRI	Leave blank for no rotation L ¹ Optic rotation left R ¹ Optic rotation right	DB Dark Bronze Textured BL Black Textured WH White Textured PS Plat. Silver Smooth GYS Light Gray Smooth GT Graphite Textured TT Titanium Textured CC Custom Color	7PR-TL 7 pin PCR with photo control 7PR-SC 7 pin PCR with shorting cap 2PF 2 power feed with 2 drivers GENI ^{2,3} Energeni SCL/40F Low voltage sensor for 7PR-SC and wiSCAPE external control accessory SCP/40F ^{2,4,5} Programmable Line Voltage sensor	BC Backlight Control SF120 120V Fuse SF277 277V Fuse SF347 347V Fuse DF208 208V Fuse DF240 240V Fuse DF480 480V Fuse TB ⁷ Terminal Block BS Bird Spikes
DISTRIBUTION				MOUNTING		
FR Type 1/Front Row 2 Type 2 3 Type 3 4 Type 4 5R Type 5 Rectangular 5QM Type 5 Square Med 5QW Type 5R Square Wide				ASQ Arm Square A2 Arm mount for 2.4"-3.0" OD round pole A3 Arm mount for 3.1"-4.0" OD round pole A4 Arm mount for 4.1"-5.0" OD round pole A5 Arm mount for 5.1"-6.0" OD round pole MAF Mast Arm Fitter (same as slip fitter) K ⁶ Knuckle (5" adjustable fitter) PT2 Post top of 2 3/8" tenon (3.5 bottom OD)		
VOLTAGE						
UNV 120-277V 347 347V 480 480V						

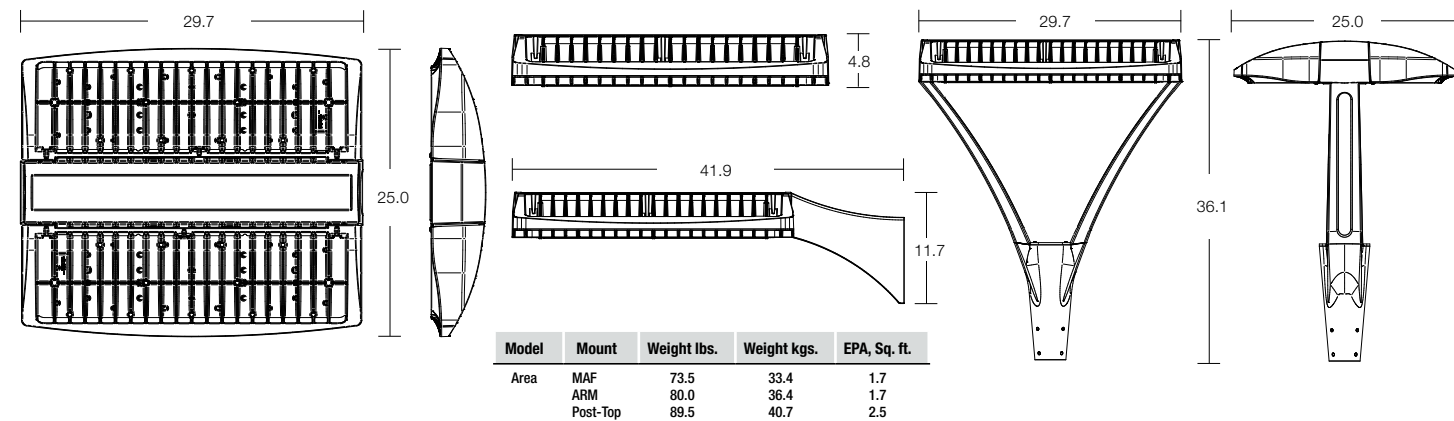
¹ Not available with 50M or 50W distribution.
² Not available with other sensor or wireless control options.
³ Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table options.
⁴ Photocell included with sensor, additional photocontrol not recommended.
⁵ Order at least one SCPREMOTE per project location to program and control
⁶ Limited to applications requiring 30° tilt or less. If higher angle tilt is required use flood version with glass cover
⁷ Not available on K or PT2 mountings
⁸ Requires 7PR-SC photocell receptacle. Include SCL/40F if occupancy sensing is required

Accessories and Services (Ordered Separately)

Control Accessories	
SCPREMOTE	Order at least one per project location to program and control
WIR-RME-L ⁸	wiSCAPE external control node

Accessories	
MAA-BC	Backlight Control accessory kit

DIMENSIONS



FLOOD ORDERING INFORMATION

ORDERING EXAMPLE: MA/F/104L-550/5K7/N/UNV/K/DB/7PR-TL

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

¹ Not available with other sensor or wireless control options.
² Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table options.
³ Photocell included with sensor, additional photocontrol not recommended.
⁴ Order at least one SCPREMOTE per project location to program and control
⁵ Requires 7PR-SC photocell receptacle. Include SCL/40F if occupancy sensing is required

Accessories and Services (Ordered Separately)

Control Accessories	
SCPREMOTE	Order at least one per project location to program and control
WIR-RME-L ⁵	wiSCAPE external control node; use with 7PR

Accessories	
MAF-FL	Louver
MAF-FV-XX	Visor

DIMENSIONS

