

PROJECT
TYPE
CATALOG #

# 08-MPAL

MULTI-PURPOSE AREA LUMINAIRE LUMEN & KELVIN SELECTABLE

## HOUSING

- Premium powder-coat, die cast aluminum, dark bronze housing.

## ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F) .
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Incoming AC power cord = 3'. Incoming dimming cord = 3'.
- Watertight, compression-type electrical connectors.
- Input transient surge protection = 6kV.
- Power factor > 0.90.
- Total Harmonic distortion < 20%.

## OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3500K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- 08-MPAL-16129L-3CCT Tri-lumen selectable provide a range of 8,421 to 15,775 nominal lumens\*.
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90)\*\*.
- NEMA flood distribution 7H6V or IES roadway Type V.
- LED color maintenance < -0.0012 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color rendering index > 80.

## MOUNTING

- Knuckle mounting is standard.
  - Optional Yoke Mounting kit.
  - Optional Arm Mounting kit.\*
  - Optional Slip-fitter Mounting kit.\*
- \* needs to be used with 08-ZZ-MPAL-MT-ADPT.

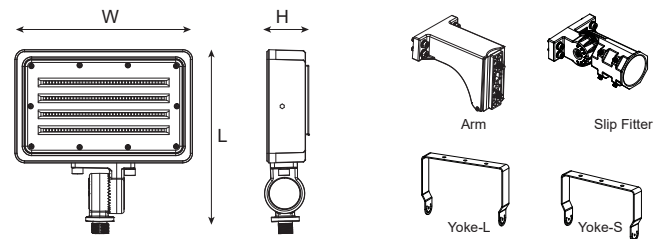
## CODE COMPLIANCE

- cULus listed for wet locations.
- Complies with FCC part 15, class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

## WARRANTY

- 5-year warranty on all electronics and housing.

\* Default kelvin temperature 4000k, highest lumen output.  
\*\*L70 & L90 hours are IES TM-21-11 calculated hours.



Model	Size (inches) & Weight (lbs)			
	L (in)	W (in)	H (in)	Weight
08-MPAL-16129L-3CCT	10.16	10.12	2.20	5.54



## PRODUCT PARAMETERS

SERIES	NOMINAL LUMEN OUTPUT (SELECTABLE)	KELVIN (SELECTABLE)
08-MPAL	16129L = 16,000 / 12,000 / 9,000 lm	3CCT 3500K / 4000K / 5000K

\* Mounting hardware sold separately. Pole tenons and tenon adapters available.  
See all mounting accessories on page2.



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## ACCESSORIES (order separately)

### Mounting Option

08-ZZ-MPAL-MT-ADPT	=	MPALDSR to MPAL Mounting Adapter for Arm and Slip Fitter
08-MPAL-YK-16129L	=	Yoke Mount for 08-MPAL-16129L-3CCT, Bronze
08-MPALDSR-ARM	=	Arm Mount (2-3/8" pole or pole tenon, round and square poles)
08-MPALDSR-SF	=	Slip Fitter (2-3/8" pole or pole tenon)

## COMPATIBLE DIMMERS & CONTROLS

Manufacturer	Model Number	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	10%-100%	600W
Best Lighting	DWS-010V-D	10%-100%	600W
Leviton	IP710-LFZ	10%-100%	1200W
Lutron	DVSTV	10%-100%	450W

## EFFECTIVE PROJECTED AREAS (EPA)

Series	WITHOUT MOUNT			ARM MOUNT			ARM A MOUNT			SLIP FITTER MOUNT			KNUCKLE MOUNT			YOKE MOUNT		
	Front (ft²)	Side (ft²)	Face (ft²)	Front (ft²)	Side (ft²)	Face (ft²)	Front (ft²)	Side (ft²)	Face (ft²)	Front (ft²)	Side (ft²)	Face (ft²)	Front (ft²)	Side (ft²)	Face (ft²)	Front (ft²)	Side (ft²)	Face (ft²)
08-MPAL-16129L-3CCT	0.46	0.09	0.14	0.51	0.31	0.20	0.71	0.40	0.44	0.71	0.25	0.21	0.54	0.17	0.15	0.59	0.11	0.15

## LUMEN TABLE & ELECTRICAL DATA

Series	Measurements	16L			12L			9L		
		3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
08-MPAL-16129L-3CCT	Lumens	14,766	15,775	14,881	11,099	11,738	11,408	8,421	8,782	8,664
	Watts	99.72	97.21	101.44	71.19	69.77	72.42	51.97	51.12	52.53
	Efficacy	148.07	162.28	146.70	155.91	168.24	157.53	162.04	171.79	164.93
	Input Current (A)	120V	0.83	0.81	0.85	0.59	0.58	0.60	0.43	0.43
240V		0.42	0.41	0.42	0.30	0.29	0.30	0.22	0.21	0.22
277V		0.36	0.35	0.37	0.26	0.25	0.26	0.19	0.18	0.19

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## PHOTOMETRIC DATA

### 08-MPAL-16129L-3CCT

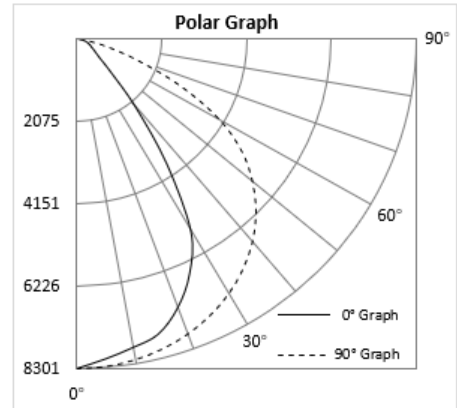
#### Luminaire Data

Description	CCT, Lumen, and Dist Selectable Area Light
Total Lumens	15,775
Input Wattage	97
Efficacy (lm/W)	162
Max. Cd.	8635.5 (180H, 11V)
IES Classification	N.A.
Longitudinal Classification	N.A.

Photometrics calculated at 4000k CCT and highest power setting.

#### Luminaire Classification Systems (LCS)

LCS Zone	Lumens	%Lum	
FL	0-30	3,108	19.7%
FM	30-60	3,804	24.1%
FH	60-80	589	3.7%
FVH	80-90	32	0.2%
BL	0-30	3,359	21.3%
BM	30-60	4,195	26.6%
BH	60-80	654	4.1%
BVH	80-90	33	0.2%
UL	90-100	0	0.0%
UH	100-180	0	0.0%
<b>Total</b>		<b>15,775</b>	<b>100.0%</b>
BUG Rating		B4-U0-G2	



## DIMENSIONAL DRAWINGS

### 08-MPAL-16129L-3CCT

