

# ROADWAY (MRL02)



## DESCRIPTION

MRL02 is designed to replace up to 400W MH, it provides excellent optical performance for a variety of area and road applications. The MRL02 series can reduce energy costs by up to 65%, coupled with low maintenance costs, further reducing budget costs, meeting customers' low budgets while having high-quality lighting. It also provides photocell, sensor and surge protection options, as well as excellent lumen maintenance, the MRL02 is ideal for sidewalks, parking lots and roads.

## SPECIFICATION FEATURES

### Construction

- Heavy-duty cast aluminum housing and removable door 3G vibration rated to ensure strength of construction and longevity in application.
- Housing is completely sealed against moisture and environmental contaminants.
- Mast arm mount is suit for arms 1-5/8" or 2-3/8" O.D. diameter.

### Optics

- Available in IES Type II, III, IV distribution.
- Offered Standard in 3000K, 3500K, 4000K and 5000K (+/- 275K) CCT and minimum 70 CRI.
- Scalable Lumen Packages from 9,200 to 20,000 Lumens.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

### Electrical

- Standard drivers feature electronic universal voltage 120-277V, 347V-480V operation.
- 0-10V dimming driver standard for 10% to 100% dimming.
- 10KV(@120-277V) / 20KV(@347-480V) surge protection available.
- Greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments.
- LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life.

### Lifespan

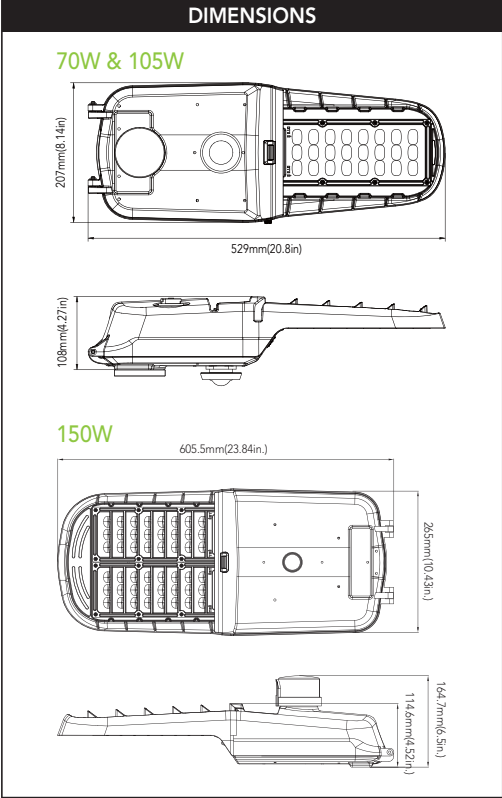
- Estimated 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

### Certifications

- DesignLights Consortium™ Qualified.
  - UL cUL wet location listed.
- Note: DesignLights Consortium™ Qualified and classified for DLC Premium, refer to [www.designlights.org](http://www.designlights.org) for details.

### Warranty

- Five-year limited warranty.



## PHOTOMETRICS

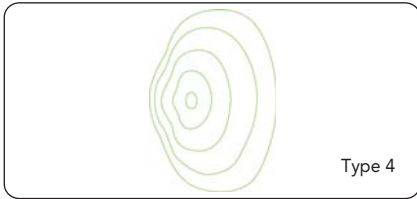
Type 2 optics creates an asymmetric distribution working well in walkway and roadway applications where more light is required "street side" than "house side".



Type 3 optics produces an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.



Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.



## PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	CRI	LUMENS (3000K)	LPW (3000K)	LUMENS (3500K)	LPW (3500K)	LUMENS (4000K)	LPW (4000K)	LUMENS (5000K)	LPW (5000K)	EPA
70W	120-277V	70	9600lm	137 lm/W	9600lm	137 lm/W	9900lm	141 lm/W	9900lm	141 lm/W	0.4567
70W	347-480V	70	9200lm	131 lm/W	9200lm	131 lm/W	9400lm	134 lm/W	9400lm	134 lm/W	0.4567
105W	120-277V	70	14300lm	136 lm/W	14300lm	136 lm/W	14600lm	139 lm/W	14600lm	139 lm/W	0.4567
105W	347-480V	70	14000lm	133 lm/W	14000lm	133 lm/W	14200lm	135 lm/W	14200lm	135 lm/W	0.4567
150W	120-277V/347-480V	70	19500lm	130 lm/W	19600lm	131 lm/W	19800lm	132 lm/W	20000lm	133 lm/W	0.4711
150W	120-277V/347-480V	70	19500lm	130 lm/W	19600lm	131 lm/W	19800lm	132 lm/W	20000lm	133 lm/W	0.4711

ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	1110	70	120	0.58
		70	208	0.34
		70	240	0.29
		70	277	0.25
1	1850	70	347	0.20
		70	480	0.15
1	850	105	120	0.88
		105	208	0.50
		105	240	0.44
		105	277	0.38
	2520	105	347	0.30
		105	480	0.22
1	5600	150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
		150	347	0.43
		150	480	0.31

ORDERING GUIDE										Example:MRL02 105W 27V XXK YYYYYY
Fixture Type	Wattage	Voltage	CCT	Finish	Photocell (Option)	Motion Sensor (Option)	Photometry	Power Adjustable(Option)	Internal Code	
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MRL02	70 70W 105 105W 150 150W	27V 120-277V 48V 347-480V	30K 3000K 40K 4000K 50K 5000K	SG Silver Gray D Dark Bronze B Black W White	P With Photocell Blank Without Photocell	M With Sensor Blank Without Sensor	T2' TYPE II T3 TYPE III T4 TYPE IV	AD With Power Adjustable Blank Without Power Adjustable	Blank Alphanumeric	

Note: 1. The 70W is optional for Type II, III, IV distribution.  
2. The 105W and 150W optional for type III distribution.