

# RL LED ROADWAY RL60 SERIES

Cat.#

Job

Type



**HUBBELL**  
Outdoor Lighting

Approvals

## SPECIFICATIONS

### Intended Use:

The LED RL unit is used to replace and upgrade 200-400w HPS roadway systems for increased uniformity and over 60% energy savings. Typical applications include roadway, parking, area and perimeter lighting.

### Features:

- Solid State/Light Emitting Diode (LED) light source
- 120-277V, 347/480V electronic dimming drivers (quantity 4)
- Die-cast aluminum housing
- Lektrocote® finish
- Drivers both IP66 and RoHS compliant

### Construction:

Die-cast aluminum housing and doors provide light weight, yet durable protection, a driver door allows easy access for both mounting and wiring.

### Optics/Electrical

#### LED:

- Two 30LED light engines provide a nominal 12000 lumens at 700 mA with standard IES distributions of Type II, III, IV, V with up to 86 LPW efficiency
- Each LED has individual optical lens so every source contributes to the same IES pattern

### Electrical:

Units consume 141w at 700 mA drive current. Standard drivers (4) are 0-10V dimming, 120-277V, 347V and 480V.

Field replaceable surge protection device provides 10KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3. The SPD is designed with a clamping voltage of 1500V at 10KA using industry standard 8/20µs waveform.

### Operating Temperature:

Units are designed to operate from -40° C to 40° C ambient

### Installation:

RM fixtures feature a 4 bolt twin clamp mounting to either 2 3/8" OD or 1 5/8" OD pipe. A center fulcrum allows leveling of +or- 5 degrees by clamp adjustment. A 'bird shield' is included on all fixtures. Fixtures are capable of 3G installations. Suitable for use in wet locations.

### Warranty:

Five year limited warranty (for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>)

## PRODUCT IMAGE(S)



## DIMENSIONS



	A	B	C	EPA	Weight
<b>RL</b>	8.25"	15.75"	36.75"	1.0 ft <sup>2</sup>	28 lbs.
	210 mm	400 mm	933 mm	0.1 m <sup>2</sup>	12.7 kg.

## CERTIFICATIONS/LISTINGS



• ANSI 3G rated

## ORDERING INFORMATION

ORDERING EXAMPLE: RL-60LU-5K-2-3-F1-BZ

SERIES	NUMBER OF LEDS	VOLTAGE	CCT	IES DISTRIBUTION	DRIVE CURRENT	PHOTOCONTROL RECEPTACLE	OPTIONS	FINISH
RL	60L	U 120-277V 5 480V F 347V	3K 3000K nominal 4K 4200K nominal 5K 5100K nominal	2 Type II 3 Type III 4 Type IV 5M Type V	BLANK 700 mA (141w)	2 None 3 Yes	F(X) Fusing replace X with voltage, specify: 1-120V 2-208V 3-240V 4-277V 5-480V 6-347V BC <sup>2</sup> Backlight Control	BL Black DB Dark Bronze CC <sup>1</sup> Custom Color (Reference RAL#) GR Gray PS Platinum Silver WH White

1 Contact factory for minimum order quantities

2 Recommended for Type III and IV distributions only



**HUBBELL**  
Outdoor Lighting

Hubbell Outdoor Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000

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

© 2014 HUBBELL OUTDOOR LIGHTING, All Rights Reserved • For more information visit our website: [www.hubbelloutdoor.com](http://www.hubbelloutdoor.com) • Printed in USA

RLLED-SPEC 10/14

**ELECTRICAL DATA**

# OF LEDS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
60	(700mA)	120	140	1.19
		277	143	0.58

**PROJECTED LUMEN MAINTENANCE**

Ambient Temp.	OPERATING HOURS					L70 (hours)
	0	25,000	50,000	TM-21-11 <sup>1</sup> L96 60,000	100,000	
25°C / 77°F	1.00	0.98	0.96	0.96	0.94	672,000
40°C / 104°F	0.99	0.98	0.95	0.94	0.92	539,000

1. Projected per IESNA TM-21-11 \* (Nichia 219B, 700mA, 85°C Ts, 10,000hrs)  
Data references the extrapolated performance projections for the LNC-12LU-5K base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

**PERFORMANCE DATA**

# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	5K (5100K nominal, 67 CRI)					4K (4200K nominal, 70 CRI)					3K (3000K nominal, 80 CRI)				
				LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G
60	(700mA)	140w	2	11759	84	3	1	3	11044	79	2	0	3	8833	63	2	0	3
			3	12058	86	2	0	3	11062	79	2	0	3	8694	62	2	1	2
			4	11582	83	2	1	3	11116	79	2	1	3					
			5M	11906	85	3	1	1	11084	79	3	1	1					

1 – Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

**LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)**

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0° C	32° F	1.02
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	1.00
40° C	104° F	0.99
50° C	122° F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).



**HUBBELL**  
Outdoor Lighting

Hubbell Outdoor Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000

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

© 2014 HUBBELL OUTDOOR LIGHTING, All Rights Reserved • For more information visit our website: [www.hubbelloutdoor.com](http://www.hubbelloutdoor.com) • Printed in USA

RLLED-SPEC 10/14