

RUL Series

RUL™ LED Rural Utility Luminaire

Rev. Date: V4 01/20/2025

Product Description

The RUL™ LED Rural Utility luminaire delivers ultra-efficient LED lighting with a low total cost of ownership and a quick return on investment for end users. By providing industry-leading efficacy of up to 129 lumens per watt and 10-year limited warranty, Cree Lighting® RUL Series luminaires are changing the assumptions associated with purchasing and maintaining utility and residential security lighting. While its lightweight design, tool-less entry, and easy installation make the RUL™ LED Rural Utility Luminaire an ideal solution for any contractor.

Applications: Rural, residential, street lighting, agricultural, and general security lighting

Performance Summary

Initial Delivered Lumens: 5250-7500

Input Power: 42-58 watts

Efficacy: Up to 129 LPW

CRI: Minimum 70 CRI

CCT: 4000K

Limited Warranty*: 1 year for luminaire and reflector/refractor

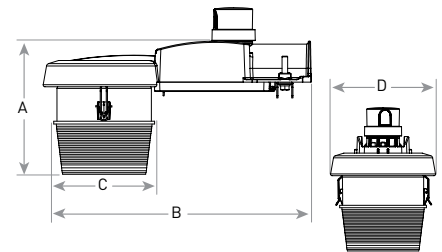
* As of 1/20/2025, this is a clearance product and has a 1-year limited warranty. See <https://www.creelighting.com/resources/warranties/> for warranty terms

Accessories

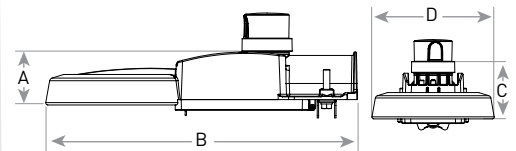
Field-Installed
Reflector/Refractor RUL-B-REFM - For use with 7L lumen package - Must be ordered with RUL luminaire



Shown w/photocell accessory (sold separately)



Luminaire w/Reflector/Refractor Accessory				
Lumen Package	Dimension			
	A	B	C	D
7L	9.8" [249mm]	21.3" [541mm]	9.3" [236mm]	8.0" [204mm]



Luminaire				
Lumen Package	Dimension			
	A	B	C	D
5L	3.1" [79mm]	18.1" [459mm]	3.4" [87mm]	8.2" [209mm]
7L	3.5" [89mm]	21.3" [541mm]	3.8" [96mm]	9.3" [236mm]

See page 2 for product weights.

Ordering Information

Example: RULS-B-5L-30K7-2N-UL

RUL		B				UL	
Product	Size	Version	Lumen Package	CCT/CRI	Optic	Voltage	Options
RUL	S Small M Medium	B	Small 5L 5,000 lumens Medium 7L 7,000 lumens	40K7 4000K, 70 CRI	2N Type II Narrow - For use with 5L only 5W Type V Wide	UL Universal 120-277V	7P NEMA® 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Requires photocell or shorting cap by others - Replaces standard 3-Pin receptacle - For use with 7L only - Not for use with PW PW Prewire - Prewired with 6.5', 14AWG, leads (black white/green) - For use with 7L only - Not for use with 7P



Website: creelighting.com

US: (800) 236-6800 Canada: (800) 473-1234

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Product Specifications

CONSTRUCTION & MATERIALS

- Die cast aluminum housing and door
- Tool-less entry
- Mounts on 1.25" IP, 1.66" [42mm] O.D. or 2" IP, 2.375" [60mm] O.D. horizontal tenon (minimum 3" [76mm] in length) and is adjustable +/- 5° in 2.5° increments to allow for fixture leveling
- Luminaire secured with two 9/16" hex head bolts and mounting strap
- Comes standard with Utility Label per ANSI C136.15-2020 and 3-pin NEMA® Photocell Receptacle per ANSI C136.10 . 7-Pin NEMA receptacle available as an option
- UV stabilized polycarbonate lens
- **Weight:** 5L - 4.0 lbs. (1.8kg); 7L - 6.3 lbs. (2.9kg); add 1.0 lb. (0.5kg) for PW option; add 0.9 lbs. (0.4kg) for RUL-B-REFM accessory

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- **Operating Temperature Range:** -40°C - + 40°C (-40°F - + 104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Luminaire certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2 on standard luminaires
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- RoHS compliant. Consult factory for additional details
- DLC Premium qualified. Please refer to www.designlights.org/QPL for most current information
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*						
Lumen Package	System Watts 120-277V	Utility Label Wattage	Total Current (A)			
			120V	208V	240V	277V
5L	42	40	0.35	0.20	0.17	0.15
7L	58	60	0.49	0.29	0.25	0.21

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating at 120-277V +/- 10%.

RUL-B Series Ambient Adjusted Lumen Maintenance ¹					
	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ³ LMF	100K hr Estimated ³ LMF
5°C (41°F)	1.04	0.98	0.92	0.86	0.81
10°C (50°F)	1.03	0.97	0.91	0.85	0.80
15°C (59°F)	1.02	0.96	0.90	0.84	0.79
20°C (68°F)	1.01	0.95	0.89	0.84	0.79
25°C (77°F)	1.00	0.94	0.88	0.83	0.78

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

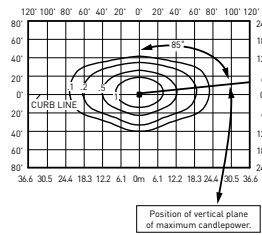
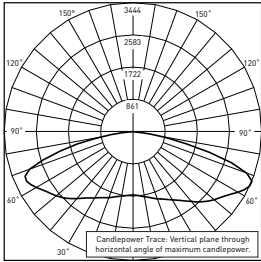
² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <https://www.creeighting.com/products/outdoor/street-and-roadway/rul-series>.

2N



UL Verification Services Test Report #: 13711307.01
RULM-B-7L-30K7-2N-UL
Initial Delivered Lumens: 7,582

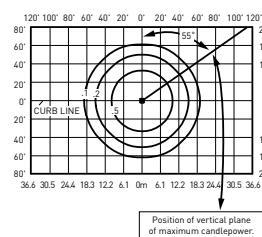
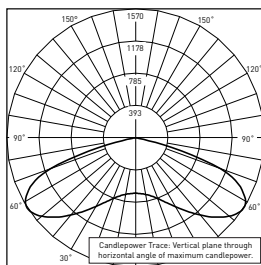
RULS-B-5L-40K7-2N-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,250
Initial FC at grade

Type II Narrow Distribution			
Lumen Package	4000K		
	Initial Delivered Lumens*	Utility Label Lumen Values	BUG Ratings**
5L	5,250	5,000	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>.

5W



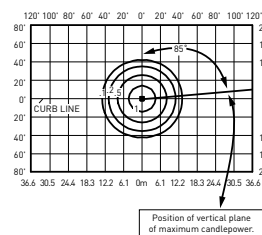
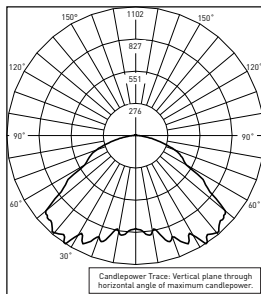
RETL Test Report #: PL16011-001A
RULS-B-5L-40K7-5W-UL
Initial Delivered Lumens: 5,623

RULS-B-5L-40K7-5W-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,250
Initial FC at grade

Type V Wide Distribution			
Lumen Package	4000K		
	Initial Delivered Lumens*	Utility Label Lumen Values	BUG Ratings**
5L	5,250	5,000	B2 U0 G1
7L	7,500	8,000	B3 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>.



RETL Test Report #: PL16012-001A
RULS-B-5L-40K7-5W-UL w/RUL-B-REFS
Initial Delivered Lumens: 3,664

RULS-B-5L-40K7-5W-UL w/RUL-B-REFS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 3,510
Initial FC at grade






Type V Wide Distribution w/Reflector/Refractor		
Lumen Package	4000K	
	Initial Delivered Lumens*	BUG Ratings**
7L	6,150	B2 U3 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.

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RUL™ LED Rural Utility Luminaire

Luminaire EPA

Horizontal Tenon Mount – Weight: 5L - 4.0 lbs. (1.8kg); 7L - 6.3 lbs. (2.9kg); add 1.0 lb. (0.5kg) for PW option; add 0.9 lbs. (0.4kg) for RUL-B-REFM accessory					
Luminaire	Single	2 @ 90°	2 @ 180°	3 @ 90°	4 @ 90°
Tenon Configuration If used with Cree tenons, please add tenon EPA with luminaire EPA					
					
Standard luminaire with photocell accessory, if applicable	0.59	0.85	1.18	1.44	1.70
Standard Luminaire w/ RUL-B-REF Refractor	1.00	1.67	2.00	2.67	3.34