

# 100W RADIUM II SERIES | LED CANOPY LIGHT



## PRODUCT DESCRIPTION

The new canopy light is now with a sleek & smaller design sporting advanced and improved standard features, including precision optics and more available options.



## DLC #:

RGL-RADIUM2-100WBSDA1

## PRODUCT FEATURES & COMMON USE APPLICATIONS

- UL cUL DLC certificate.
- Lumileds or Samsung Chip, high CRI.
- Input voltage 120-277VAC.
- Output constant current lever can be adjusted through output cable with 0-10V.
- No UV or IR in the beam.
- Easy to install and operate.
- Energy saving, long lifespan.
- Light is soft and uniform, safe to eyes.
- Instant start, NO flickering, NO humming.
- Green and eco-friendly without mercury.
- Warehouse, factory, and workshops.
- Highway toll station and gas station.
- Exhibition hall.
- Gymnasium and supermarkets, etc

## PRODUCT DIMENSIONS



### 100 WATT RADIUM SERIES LED CANOPY LIGHTS

100 Watt - 11 Inches Round



3.1 Inches High

Rugged Grade Lighting  
Industrial Grade Solutions



### LEGENDARY USA SUPPORT



US based  
phone and online  
customer support



888-933-2470

sales@ruggedgrade.com



## PRODUCT TECHNICAL SPECIFICATIONS

<b>OPTICAL</b>	Input Power (Tolerance : ±10%)	100W		
	Color Temperature	3000K	4000K	5000K
	Lumen (Tolerance : -10%)	14298LM	15322LM	14943LM
	Efficacy (Tolerance : -3%)	143LM/W	153LM/W	149LM/W
	CRI	>80		
	Color Consistency	<7 Steps (or <7 SDCM)		
	BUG	B3-U3-G3		
	Diffuser Type	PC Lens		
	Beam Angle (50%) (Tolerance :	150 Degree		
Input Voltage and Frequency	120-277VAC, 50/60Hz			
<b>ELECTRICAL</b>	PF (Tolerance : -3%)	≥0.9		
	THD (Tolerance : +5%)	≤20%		
	Flicker Percent	<60%		
	Driver Brand	Daermay		
	Driver Model	MP-100T130A		
	Driver Surge protection	L/N-PE: 6kV, L-N: 6kV		
	Dimming	0-10V dimming standard		
	Optional Accessory	Motion Sensor, Surge-protective Device		
	LED Brand	Lumileds		
<b>MATERIALS</b>	LED Type	SMD2835		
	LED QTY	240 PCS 3000K+240 PCS 5000K		
	Housing	Die-cast aluminum		
	Housing Color	Black, White, or Customized		
	Waterproof Rating	WET (IP65)		
	Operating Temperature	- Without Motion Sensor:-40°C TO +45°C With Motion Sensor:-30°C TO +45°C		
<b>OTHERS</b>	Storage Temperature	-40°C TO 80°C		
	Operating Humidity	-40% - 90% RH		
	Storage Humidity	10% - 95% RH		
	Warrantv	5 years warrantv with 24/7 operating hours Luminaire lifetime at		

## PRODUCT MOUNTS & ACCESSORIES



## PRODUCT IMAGES & ACTUAL INSTALLATIONS





## PHOTOMETRICS

### Luminaire Property

Luminaire Manufacturer:  
 Luminaire Category:  
 Lamp Catalog:  
 Number of Lamps:  
 Luminous Length (mm):  
 Luminous Height (mm):  
 Current: 0.806 A  
 Power Factor: 0.994

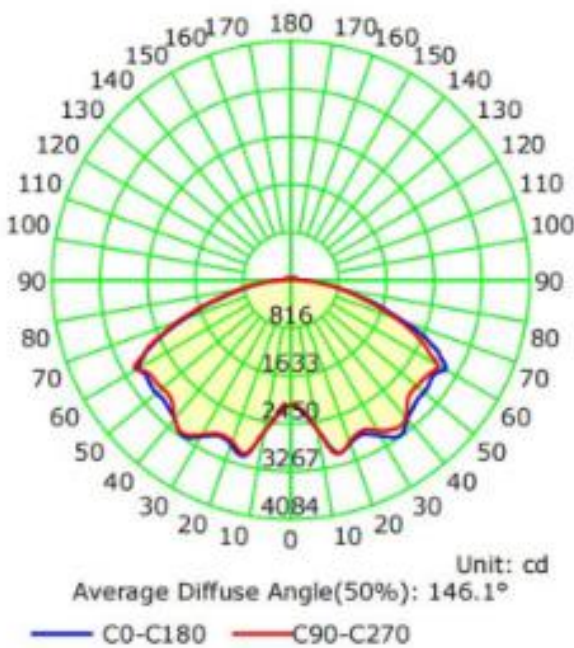
Luminaire Description:  
 Lamp Description:  
 Lumens per Lamp:  
 Luminous Width (mm):  
 Voltage: 120.0 V  
 Power: 96.16 W

### Photometric Results

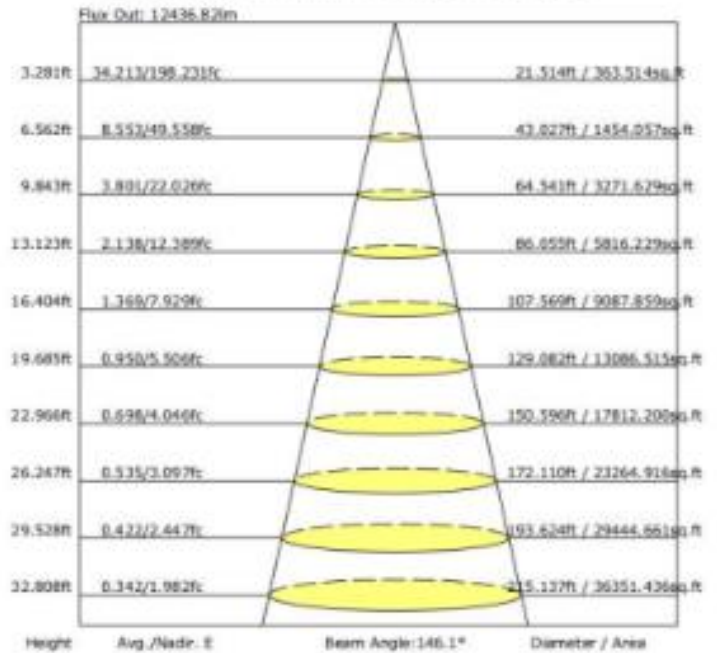
CIE Class: Direct  
 Measurement Flux: 14298.5 lm  
 Downward Ratio: 97%  
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 174.2, 174.4, 173.9, 174.0  
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 146.1, 146.1, 145.3, 145.3  
 Luminaire Efficacy Rating (LER): 148.75  
 Max. Intensity: 3267.27 cd  
 S/MH(C0/C180): 1.99

Total Rated Lamp Lumens: 14298.5 lm  
 Efficiency: 100%  
 Upward Ratio: 3%  
 C0r0 Intensity: 2133.74 cd  
 Pos of Max. Intensity: H225 V36  
 S/MH(C90/C270): 1.94

Luminous Intensity Distribution Curve



The Average Illuminance Effective Figure



## DLC SPECS

Product ID: S-BF3CVO

X



### RGL-RADIUM2-100WBSDA1-abcd

Manufacturer: RuggedGrade  
Brand: RuggedGrade

#### PRODUCT OVERVIEW

Model Number	RGL-RADIUM2-100WBSDA1-abcd
Classification	Premium
Primary Use	Parking Garage Luminaires
Reported Input Wattage	96.2 W
Reported Light Output	14299 lm
Reported CCT	3000 K
Reported CRI (Ra)	73
Product ID	S-BF3CVO
DLC Family Code	SLFA,IK
Listing Status	Listed
Date Qualified	2023-03-06

#### PRODUCT INFORMATION

Qualified Product List	Solid State Lighting
Technical Requirements Version	5.1
Product ID	S-BF3CVO
Manufacturer	RuggedGrade
Brand	RuggedGrade
Model Number	RGL-RADIUM2-100WBSDA1-abcd
Parent	No
Classification	Premium

#### PRODUCT CATEGORIZATION

[VIEW DETAILS](#)

#### CONTROL FEATURES

[VIEW DETAILS](#)

#### REPORTED PHOTOMETRIC PERFORMANCE

Reported Light Output	14299 lm
Reported Efficacy (AC)	148.69 lm/W
Reported CCT	3000 K
Reported CRI (Ra)	73
Reported RS	-17
Reported IES Rf	73
Reported IES Rg	98
Reported IES Rcs, I <sub>h1</sub>	-14

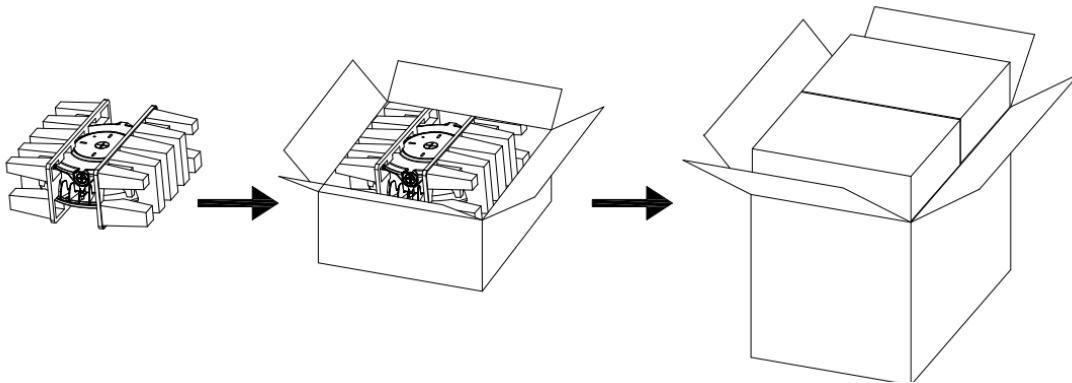
#### REPORTED ELECTRICAL PERFORMANCE

Reported Input Wattage	96.2 W
Reported Total Harmonic Distortion	15 %
Reported Power Factor	0.9
Reported Minimum Input Wattage	96.2 W
Reported Maximum Input Wattage	96.2
Reported Default Input Wattage	96.2 W
Voltage Range	120-277 V



## PACKAGING

	Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Inner box	325*325*140 mm	1 PCS	2.23 KG	2.71 KG
Outer box	345*300*345 mm	2 PCS	4.46 KG	6.42 KG



## PRODUCT WARNINGS

- ⚡ Please turn off power before install or change assembly parts.
- ⚡ The input voltage and lamps should be matched, after connecting the power line.
- ⚡ Please make sure the wiring section is insulated.
- ⚡ Professionals must install and disassemble the lamps.
- ⚡ Surge is the number 1 cause of LED light failure. Outdoor lights must have surge at fixture, pole, and breaker.
- ⚡ Surge is the number 1 cause of LED light failure. Indoor lights must have surge at fixture and breaker.

## PRODUCT TROUBLESHOOTING

Issue	Check points
Light Flickers	Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. Lights with photocells can have photocell tag from ambient light or light reflecting at the sensor. Simply cover the photocell completely and see if flickering continues while the photocell is covered. Call Tech Support for help if none of the above solves the issue.
Light does not work at all.	Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. If input voltage is not in the voltage range of the fixture, you will need to find the source of your input voltage issue. Call Tech Support for help if none of the above solves the issue.

For more technical information, install questions, troubleshooting help or warranty claims, we have a dedicated US Tech and Customer Support Team to help solve any issues you have and can be reached by email or phone. If you need help with any of our products, we are here for you so that you are never in the dark!

# BETTER LIGHTS. BETTER SUPPORT.

