



Our new Radium II Series has redefined the game for LED Canopy Lights by adding Tunable Tech from RuggedGrade giving you control to change the color temperature directly on the fixture

P/N :RGL-RADIUM2-100WBSDA1-abc

d

Note:

RGL= RuggedGrade Lighting

PG05C = Product series, LED Parking Garage Light

55W = Rating Power

“B”= Lumileds 2835 ,LED manufacturer,

“S” = Cover type, Clear Stripe PC,

“D” =dual color temperature , representing the Led Module type,

“A1” = Version number,

“a” can be any two letters to represent lamp colors;

WH=White, or Customized;

“b” can be S or blank;

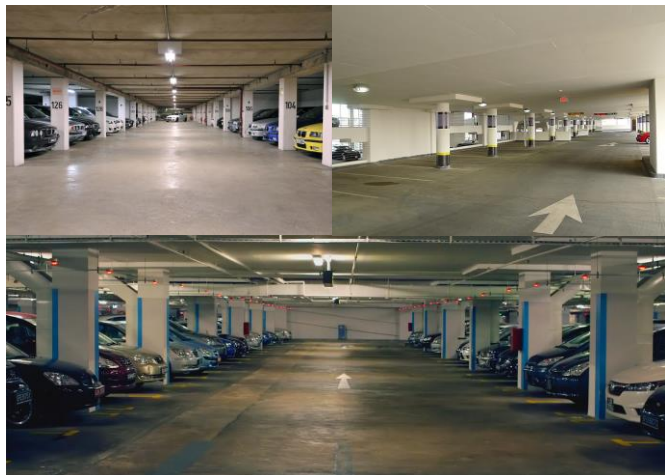
represent Surge protector or None Surge protector;

“c” can be “DMS” , “DPS” , “Z” or blank

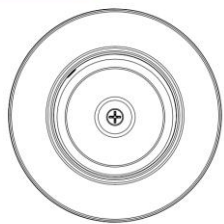
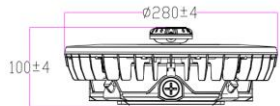
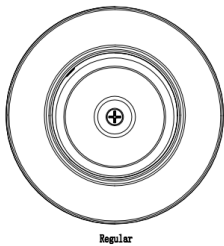
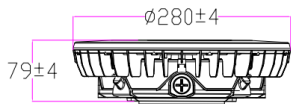
for DC Motion Microwave sensor

or DC Motion PIR sensor

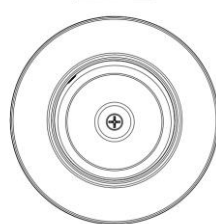
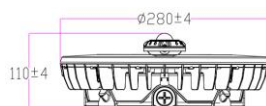
or ZHAGA or no sensor provided;



## DIMENSIONS



With DC Motion Microwave sensor



With DC Motion PIR sensor

## ADVANTAGE

- UL cUL DLC-V5.1(Premium) certificate.
- IP65 driver, input voltage 120-277VAC.
- 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.
- Color-Tunable, can be adjusted the CCT to 3000K, 4000K and 5000K.

## APPLICATION

- ◆ Widely used in gas station, service station, underground parking lot, warehouse, garage;
- ◆ Work floor, factory and so on.



## SPECIFICATIONS

|                   |                                     |   |          |          |
|-------------------|-------------------------------------|---|----------|----------|
| <b>OPTICAL</b>    | Input Power (Tolerance : ±10%)      | 100W  |          |          |
|                   | Color Temperature (Color Tunable)   | 3000K   | 4000K    | 5000K    |
|                   | Lumen (Tolerance : -10%)            | 14298 LM  | 15322 LM | 14943 LM |
|                   | Efficacy (Tolerance : -3%)          | 148 LM/W  | 165 LM/W | 155 LM/W |
|                   | CRI                                 | >80   |          |          |
|                   | Color Consistency                   | <7 Steps (or <7 SDCM)   |          |          |
|                   | BUG                                 | B3-U3-G3  |          |          |
|                   | Diffuser Type                       | Clear Stripe PC   |          |          |
|                   | Beam Angle (50%) (Tolerance : ±15%) | 150 Degree  |          |          |
| <b>ELECTRICAL</b> | Input Voltage and Frequency         | 120-277VAC, 50/60Hz;  |          |          |
|                   | 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  |          |          |
| <b>MATERIALS</b>  | LED Brand                           | Lumileds 2835   |          |          |
|                   | LED Type                            | SMD2835 (0.5W)  |          |          |
|                   | LED QTY                             | 240 PCS 3000K+240 PCS 5000K   |          |          |
|                   | Housing                             | Die-cast aluminum   |          |          |
|                   | Housing Color                       | White, or Customized  |          |          |
|                   | Waterproof Rating                   | WET (IP65)  |          |          |
| <b>OTHERS</b>     | Operating Temperature               | Without Motion Sensor:-30°C TO +45°C<br>With Motion Sensor:-30°C TO +45°C |          |          |
|                   | Storage Temperature                 | -40°C TO 80°C   |          |          |
|                   | Operating Humidity                  | 20% - 90% RH  |          |          |
|                   | Storage Humidity                    | 10%-95% RH  |          |          |
|                   | Warranty                            | 5 years warranty with 24/7 operating hours Luminaire lifetime at 25°C.    |          |          |



## 100 WATT RADIUM SERIES LED CANOPY LIGHTS

100 Watt - 11 Inches Round



## LIGHT DISTRIBUTION TESTING PARAMETERS

### Luminaire Property

Luminaire Manufacturer:  
 Luminaire Category:  
 Lamp Catalog:  
 Number of Lamps:  
 Luminous Length (mm):  
 Luminous Height (mm):  
 Current: 0.457 A  
 Power Factor: 0.985

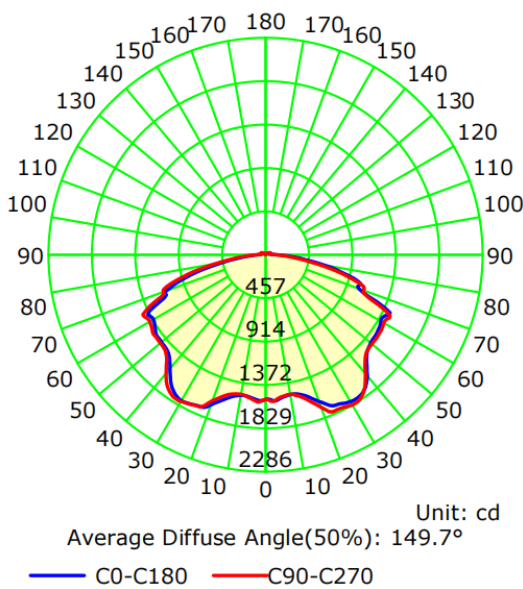
Luminaire Description:  
 Lamp Description:  
 Lumens per Lamp:  
 Luminous Width (mm):  
 Voltage: 120.0 V  
 Power: 54.07 W

### Photometric Results

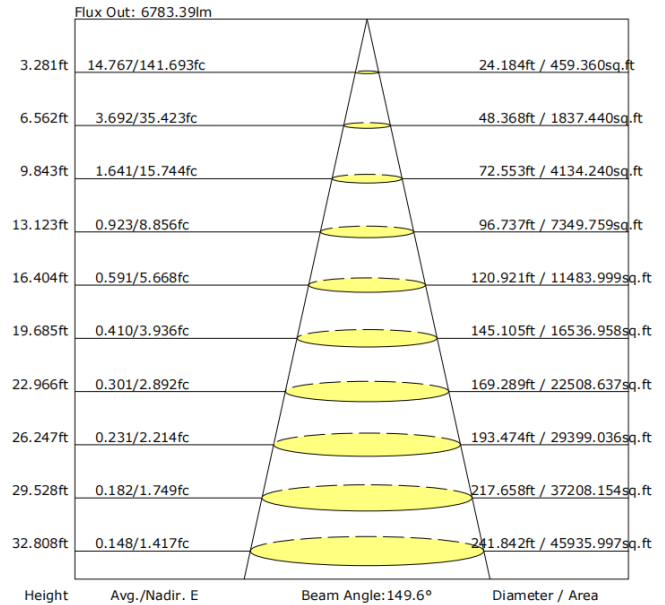
CIE Class: Direct  
 Measurement Flux: 7733.3 lm  
 Downward Ratio: 97%  
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 174.1, 174.1, 174.3, 173.8  
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 149.6, 149.7, 149.4, 149.8  
 Luminaire Efficacy Rating (LER): 143.07  
 Max. Intensity: 1829.57 cd  
 S/MH(C0/C180): 1.63

Total Rated Lamp Lumens: 7733.3 lm  
 Efficiency: 100%  
 Upward Ratio: 3%  
 C0r0 Intensity: 1525.17 cd  
 Pos of Max. Intensity: H90 V31  
 S/MH(C90/C270): 1.64

Luminous Intensity Distribution Curve



The Average Illuminance Effective Figure



Product ID: S-BF3CVO



## RGL-RADIUM2-100WBSDA1-abcd

Manufacturer: RuggedGrade  
Brand: RuggedGrade

### PRODUCT OVERVIEW

|                        |                           |
|------------------------|---------------------------|
| 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        | SLFAJK                    |
| 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](#)

### PRODUCT CAPABILITIES [VIEW DETAILS](#)

### REPORTED PHOTOMETRIC PERFORMANCE

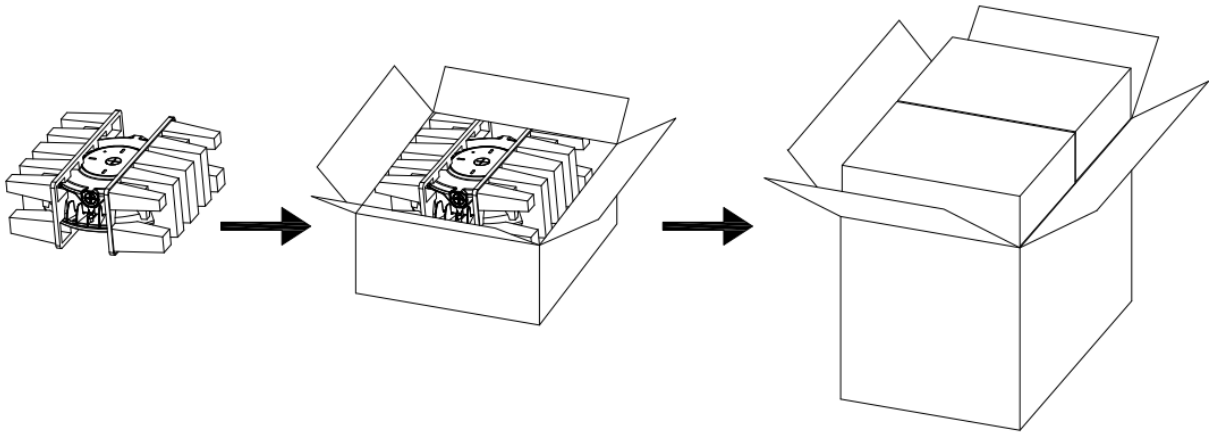
|                        |             |
|------------------------|-------------|
| Reported Light Output  | 14299 lm    |
| Reported Efficacy (AC) | 148.69 lm/W |
| Reported CCT           | 3000 K      |
| Reported CRI (Ra)      | 73          |
| Reported R9            | -17         |
| Reported IES Rf        | 73          |
| Reported IES Rg        | 98          |
| Reported IES Rcs,h1    | -14         |



**PACKAGE**

|           | 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               |

Tolerance of Carton Size: ±15 MM, Tolerance of Weight: ±10%.



## NOTICE FOR USER

- 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.
- No-professionals, must not install and disassemble the lamps.

## TROUBLESHOOTINGS

| 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 back 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.**



**CERTIFIED**



**LISTED**



LEGENDARY RUGGEDGRADE QUALITY  
LEGENDARY USA SUPPORT



US based  
phone and online  
customer support



ROCK SOLID  
**5 YEARS**  
WARRANTY

