

# 320W ORION III | LED HIGH BAY LINEAR LIGHT



## PRODUCT DESCRIPTION

Orion III Series High Bay Linear Light is the latest in LED technology. Smaller, longer lasting and more efficient LED high bay lighting. 0-10v dimmability, top level DLC 5.1 Premium certification and UL listed for safety, with an Ultra-Efficient 145+ lumens per watt.



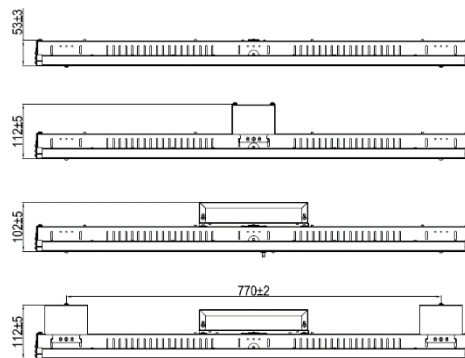
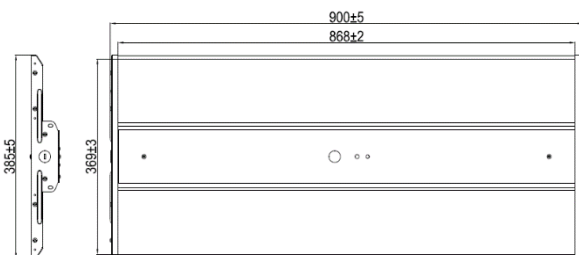
## DLC #:

RGL-ORION3-PHB-V-320W

## PRODUCT FEATURES & COMMON USE APPLICATIONS

- UL, cUL, certificate.
- Lumileds Chip, high CRI.
- Input voltage 120-277VAC.
- Wattage adjustable.
- Output constant current level 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.
- Exhibition Hall and supermarkets, etc.

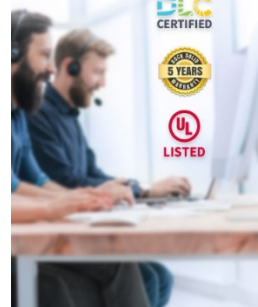
## PRODUCT DIMENSIONS



## LEGENDARY USA SUPPORT



US based phone and online customer support



Rugged Grade Lighting  
Industrial Grade Solutions



888-953-2476  
sales@ruggedgrade.com

## PRODUCT TECHNICAL SPECIFICATIONS

|                                    |   |   |  |  |  |
|------------------------------------|---|---|--|--|--|
| <b>OPTICAL</b>                     | Input Power (Tolerance: ±10%)                               | 320W  |  |  |  |
|                                    | Color Temperature   | 5000K   |  |  |  |
|                                    | Lumen (Tolerance: -10%)                                     | 46,400 LM   |  |  |  |
|                                    | Efficacy (Tolerance: -3%)                                   | 145 LM/W  |  |  |  |
|                                    | CRI   | >80   |  |  |  |
|                                    | Color Consistency   | <6 Steps (or <6 SDCM)   |  |  |  |
|                                    | UGR   | <27 (X=4H, Y=8H; S/H=1; Reflectances: 70%/50%/20%)            |  |  |  |
|                                    | Diffuser Type   | PC Lens   |  |  |  |
| Beam Angle (50%) (Tolerance: ±15%) | 90 Degree @ Matte Lens                                      |   |  |  |  |
| <b>ELECTRICAL</b>                  | Input Voltage and Frequency                                 | 120-277VAC, 50/60Hz   |  |  |  |
|                                    | PF (Tolerance: -3%)   | ≥0.9  |  |  |  |
|                                    | THD (Tolerance: +5%)  | ≤20%  |  |  |  |
|                                    | Flicker Percent   | <30%  |  |  |  |
|                                    | Driver Brand  | Rugged Grade Lighting   |  |  |  |
|                                    | Driver Model  | Rugged Grade Lighting Driver                                  |  |  |  |
|                                    | Driver Surge protection                                     | L/N-PE: 6kV, L-N: 6kV   |  |  |  |
|                                    | Dimming   | 0-10V dimming standard  |  |  |  |
| Optional Accessory                 | AC/DC Motion Sensor, AC/DC PIR Sensor, 10KV/Surge protector |   |  |  |  |
| <b>MATERIALS</b>                   | LED Brand   | Lumileds  |  |  |  |
|                                    | LED Type  | SMD 2835  |  |  |  |
|                                    | LED QTY   | 1260 PCS  |  |  |  |
|                                    | Housing   | IRON  |  |  |  |
|                                    | Housing Color   | White   |  |  |  |
|                                    | Waterproof Rating   | DAMP (IP20)   |  |  |  |
| <b>OTHERS</b>                      | Operating Temperature                                       | Without Motion Sensor: -30°C TO 50°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 |  |  |  |

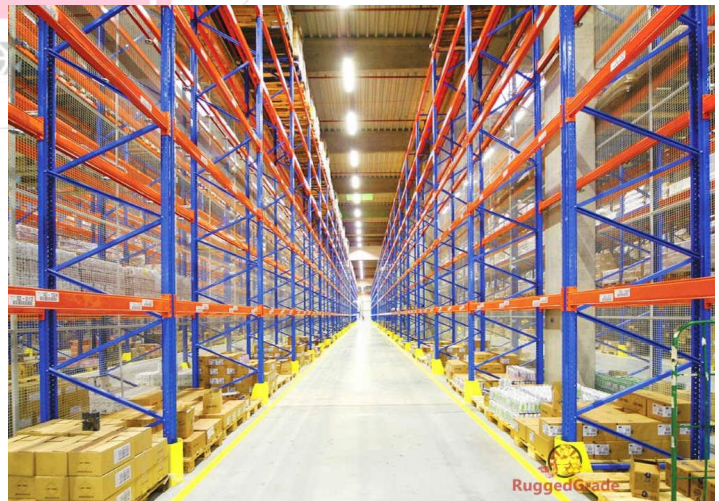
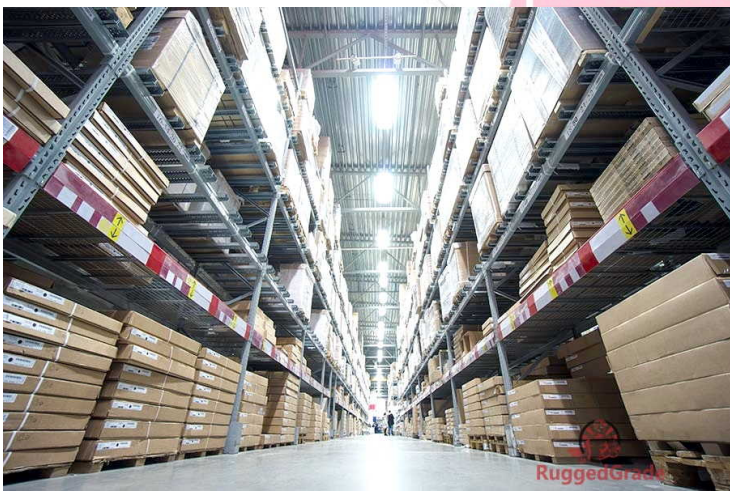
## PRODUCT MOUNTS & ACCESSORIES



# 320W ORION III | LED HIGH BAY LINEAR LIGHT



## PRODUCT IMAGES & ACTUAL INSTALLATIONS



Rugged Grade Lighting  
Industrial Grade Solutions



888-953-2476  
sales@ruggedgrade.com

## PHOTOMETRICS & DLC PRODUCT SPEC

Product ID: PLYCNMUF573U



### RGL-ORION3-320WBMD1G2-ab[EM;Blank]50

**Manufacturer:** RuggedGrade  
**Brand:** RuggedGrade

| PRODUCT OVERVIEW              |   |
|-------------------------------|---|
| <b>Classification</b>         | Premium   |
| <b>Primary Use</b>            | High-Bay Luminaires for Commercial and Industrial Buildings |
| <b>Reported Input Wattage</b> | 324.53 W  |
| <b>Reported Light Output</b>  | 43435.8 lm  |
| <b>Reported CCT</b>           | 5000 K  |
| <b>Reported CRI (Ra)</b>      | 80  |
| <b>Product ID</b>             | PLYCNMUF573U  |
| <b>DLC Family Code</b>        | <a href="#">EMWALK</a>                                      |
| <b>Listing Status</b>         | Listed  |
| <b>Date Qualified</b>         | 2021-12-23  |

| PRODUCT INFORMATION                   |                                      |
|---------------------------------------|--------------------------------------|
| <b>Qualified Product List</b>         | Solid State Lighting                 |
| <b>Technical Requirements Version</b> | 5.1                                  |
| <b>Product ID</b>                     | PLYCNMUF573U                         |
| <b>Manufacturer</b>                   | RuggedGrade                          |
| <b>Brand</b>                          | RuggedGrade                          |
| <b>Model Number</b>                   | RGL-ORION3-320WBMD1G2-ab[EM;Blank]50 |
| <b>Parent</b>                         | No                                   |
| <b>Classification</b>                 | Premium                              |

| PRODUCT CATEGORIZATION | <a href="#">VIEW DETAILS</a> |
|------------------------|------------------------------|
|------------------------|------------------------------|

| PRODUCT CAPABILITIES | <a href="#">VIEW DETAILS</a> |
|----------------------|------------------------------|
|----------------------|------------------------------|

| REPORTED PHOTOMETRIC PERFORMANCE     |             |
|--------------------------------------|-------------|
| <b>Reported Light Output</b>         | 43435.8 lm  |
| <b>Reported Efficacy (AC)</b>        | 133.84 lm/W |
| <b>Reported CCT</b>                  | 5000 K      |
| <b>Reported CRI (Ra)</b>             | 80          |
| <b>Reported R9</b>                   | 7           |
| <b>Reported IES Rf</b>               | 84          |
| <b>Reported IES Rg</b>               | 95          |
| <b>Reported IES Rcs,h1</b>           | -12         |
| <b>Reported Default Light Output</b> | 43435.8 lm  |



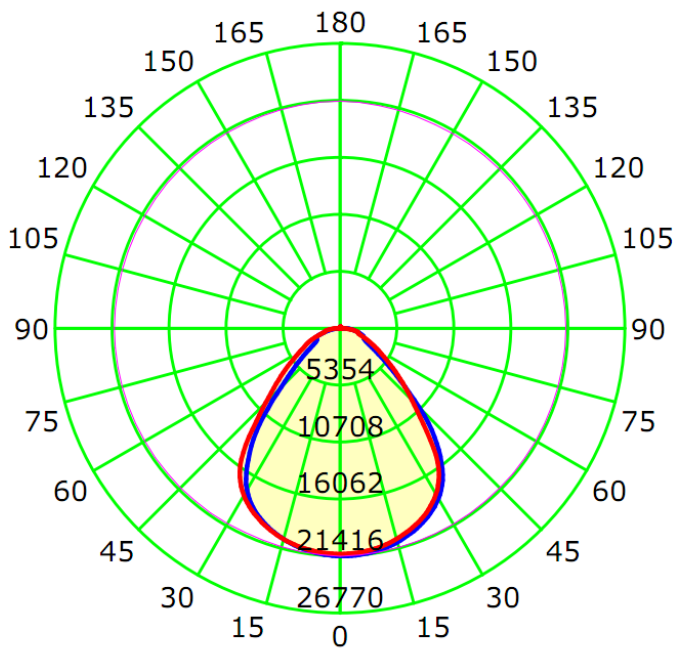
## Photometric Results

CIE Class: Direct  
 Measurement Flux: 43352.7 lm  
 Downward Ratio: 99%  
 Horizontal Diffuse Angle(50%): H86.1  
 Vertical Diffuse Angle(50%): V86.8  
 Luminaire Efficacy Rating (LER): 136.03  
 Max. Intensity: 21416.5 cd  
 S/MH(C0/C180): 1.24

Total Rated Lamp Lumens: 43352.7 lm  
 Efficiency: 100%  
 Upward Ratio: 1%

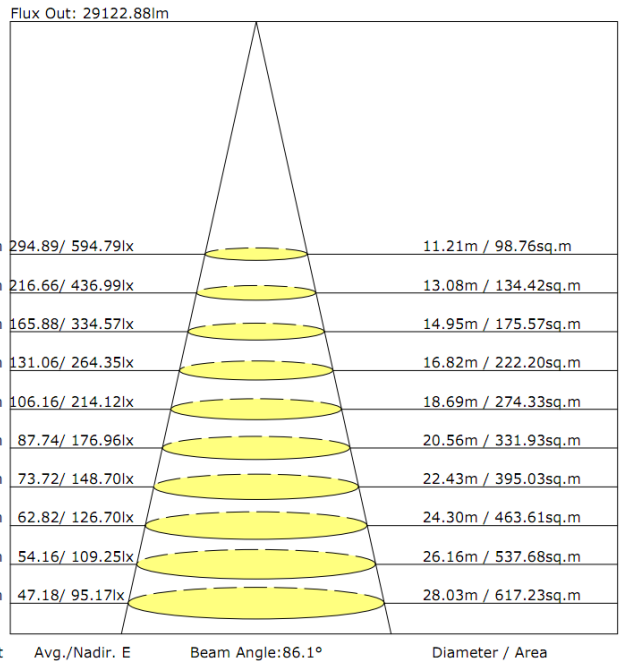
Central Intensity: 21412.3 cd  
 Pos of Max. Intensity: H0 V2  
 S/MH(C90/C270): 1.25

Luminous Intensity Distribution Curve



Unit: cd  
 Average Diffuse Angle(50%): 86.5°

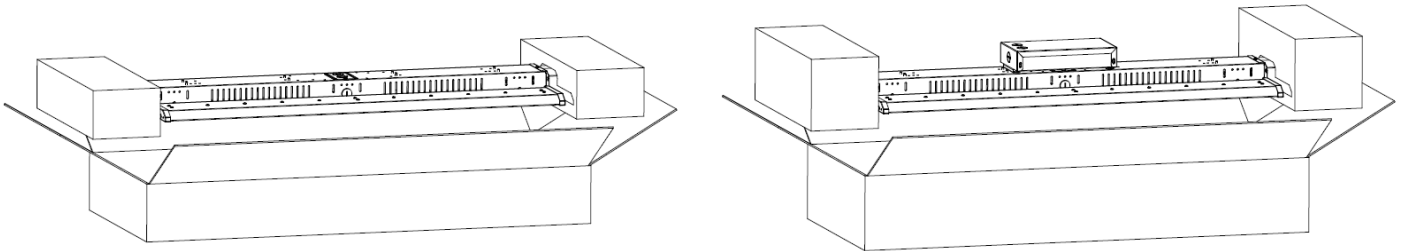
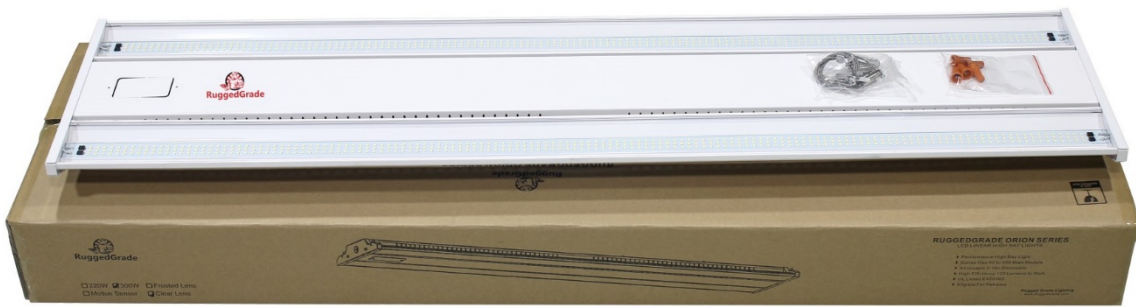
The Average Illuminance Effective Figure



## PRODUCT PACKAGING

|           | Carton Size    | Qty / Carton | Net Weight / Carton | Gross Weight / Carton |
|-----------|----------------|--------------|---------------------|-----------------------|
| Outer box | 860*360*130 MM | 1 PCS        | 4.4 KG/PC           | 5.6 KG                |
|           |                |              |                     |                       |

\*Tolerance of Carton Size:  $\pm 15$  MM, Tolerance of Weight:  $\pm 10\%$ .



## 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

# BETTER LIGHTS. BETTER SUPPORT.

