

60W CALADAN | LED EXPLOSION PROOF LIGHT



PRODUCT DESCRIPTION

The New Caladan Series is here with a slim new design but keeps all toughness of an explosion proof light. This New model comes with all necessary Class 1 division II certifications!

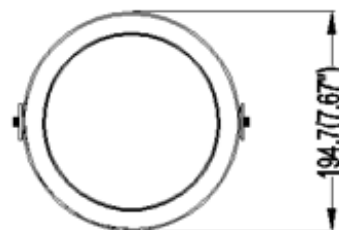
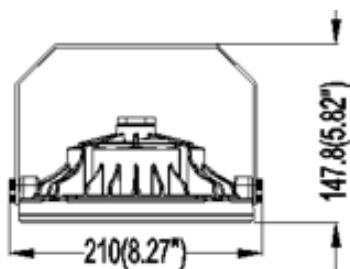


Part#: RGL-CALADAN-60W

PRODUCT FEATURES & CERTIFICATIONS

- UL cUL certificate.
- DLC listed (S-YGPJZ7)
- 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.
- CID2 Groups A,B,C,D.T4/T4A
- UL 844.
- UL 1598.
- UL 8750.
- CSA C22.2 No.137.0.
- CSA C22.2 No.250.0.
- CSA C22.2 No.250.13.

PRODUCT DIMENSIONS



Rugged Grade Lighting
Industrial Grade Solutions



LEGENDARY USA SUPPORT



US based
phone and online
customer support



5 YEARS
WARRANTY



LISTED



888-953-2476
sales@ruggedgrade.com



PRODUCT TECHNICAL SPECIFICATIONS

| | | | | | |
|-------------------|--------------------------------|--|-------------------|------------------------|-------------------------------|
| OPTICAL | Input Power (Tolerance : ±10%) | 60W | | | |
| | Color Temperature | 3000K-6500K | | | |
| | Cover | Clear Glass | Clear Glass+ Lens | Clear Glass+Wire Gaurd | Clear Striped Spherical Glass |
| | Lumen (Tolerance : -10%) | 9600LM | 4440LM | 4470LM | 41440LM |
| | Efficacy (Tolerance : -3%) | 160LM/W | 148LM/W | 149LM/W | 138LM/W |
| | CRI | >80 | | | |
| | Color Consistency | < 7 Steps (or < 7 SDCM) | | | |
| | UGR (Glare Rating) | < 28 (X=4H, Y=8H; S/H=1; Reflectances: 70%/50%/20%) | | | |
| | Diffuser Type | PC Lens | | | |
| | Beam Angle (50%) (Tolerance : | 110 Degree | | | |
| ELECTRICAL | Input Voltage and Frequency | 120-277VAC, 50/60Hz | | | |
| | PF (Tolerance : -3%) | ≥0.9 | | | |
| | THD (Tolerance : +5%) | ≤20% | | | |
| | Flicker Percent | < 5% | | | |
| | Driver Brand | Rugged Grade Lighting | | | |
| | Driver Model | Rugged Grade Lighting Driver | | | |
| | Driver Surge protection | L/N-PE: 10kV, L-N: 6kV | | | |
| | LED Brand | Lumileds | | | |
| | LED Type | SMD2835 | | | |
| MATERIALS | LED QTY | 210PCS | | | |
| | Housing | Die-cast aluminum | | | |
| | Housing Color | Grey, or Customized | | | |
| | Waterproof Rating | WET (IP66) | | | |
| | Operating Temperature | -40°C TO 55°C | | | |
| OTHERS | Operating Humidity | 10% - 90% RH | | | |
| | Storage Humidity | 10% - 95% RH | | | |
| | Warranty | 5 years warranty with 24/7 operating hours Luminaire lifetime at 25°C. | | | |
| | | | | | |

PRODUCT MOUNTS & ACCESSORIES



Clear glass



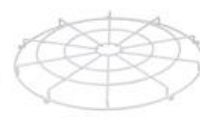
Clear striped spherical glass



Bracket



Wire guard



Flat wire guard





PRODUCT IMAGES & ACTUAL INSTALLATIONS

1. Suitable for gas station, petroleum and chemical industries, coal mine, military, airport, warehouse, marine etc.
2. Zone1 & Zone2 gaseous environment, and Zone21 & Zone22 dust environment.
3. Class I Division 2 Group A, B, C, D



Chemical Factory



Offshore Oil Mining



Military Ship



Army Base



Gas Station



Petrol Process Factory



Traning Camp



Navy Port





PHOTOMETRICS

Luminaire Property

Luminaire Manufacturer:

Voltage: 120.8 V

Power: 61.38 W

Current: 0.513 A

Power Factor: 0.990

Photometric Results

CIE Class: Direct

Measurement Flux: 8514.2 lm

Downward Ratio: 97%

Horizontal Diffuse Angle(10%,50%): H161.9,H121.7

Vertical Diffuse Angle(10%,50%): V162.2,V123

Luminaire Efficacy Rating (LER): 138.76

Max. Intensity: 2626.5 cd

S/MH(C0/C180): 1.42

Total Rated Lamp Lumens: 8514.2 lm

Efficiency: 100%

Upward Ratio: 3%

Central Intensity: 2577.63 cd

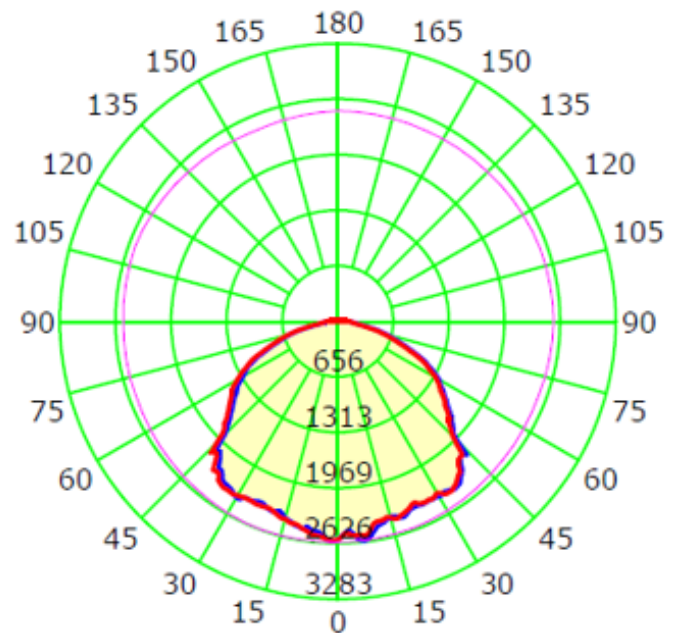
Pos of Max. Intensity: H337.5 V7

S/MH(C90/C270): 1.42

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 122.2°

— C0-C180 — C90-C270 - - G7



DLC PRODUCT SPEC

Product ID: S-YGPJZ7 ✕



RGL-CALADAN-60WBCGD1-abc50

Manufacturer: RuggedGrade
Brand: RUGGEDGRADE

PRODUCT OVERVIEW

| | |
|------------------------|--|
| Model Number | RGL-CALADAN-60WBCGD1-abc50 |
| Classification | Standard |
| Primary Use | Specialty: Hazardous Environment Low Bay |
| Reported Input Wattage | 60.6 W |
| Reported Light Output | 9123 lm |
| Reported CCT | 5000 K |
| Reported CRI (Ra) | 82 |
| Product ID | S-YGPJZ7 |
| DLC Family Code | HZQWST |
| Listing Status | Listed |
| Date Qualified | 2025-08-19 |

PRODUCT INFORMATION

| | |
|--------------------------------|----------------------------|
| Qualified Product List | Solid State Lighting |
| Technical Requirements Version | 5.1 |
| Product ID | S-YGPJZ7 |
| Manufacturer | RuggedGrade |
| Brand | RUGGEDGRADE |
| Model Number | RGL-CALADAN-60WBCGD1-abc50 |
| Parent | No |
| Classification | Standard |

PRODUCT CATEGORIZATION

[VIEW DETAILS](#)

CONTROL FEATURES

[VIEW DETAILS](#)

REPORTED PHOTOMETRIC PERFORMANCE

| | |
|------------------------|-------------|
| Reported Light Output | 9123 lm |
| Reported Efficacy (AC) | 150.64 lm/W |
| Reported CCT | 5000 K |
| Reported CRI (Ra) | 82 |
| Reported R9 | 1 |
| Reported IES Rf | 84 |
| Reported IES Rg | 97 |
| Reported IES Rcs, h1 | -12 |

REPORTED ELECTRICAL PERFORMANCE

| | |
|------------------------------------|-----------|
| Reported Input Wattage | 60.6 W |
| Reported Total Harmonic Distortion | 15 % |
| Reported Power Factor | 0.9 |
| Reported Maximum Input Wattage | 60.6 |
| Reported Default Input Wattage | 60.6 W |
| Voltage Range | 120-277 V |



PRODUCT PACKAGING

| | clear glass + wire guard | clear striped spherical glass + wire guard | U-shaped glass+ U-shaped wire guard |
|------------------|-----------------------------|--|--|
| Lamps Net Weight | 1.6kg | 2kg | 2.5kg |
| Carton Size | 470*470*193mm | 470*470*230mm | 470*470*335mm |
| Qty/ Carton | 4 PCS | | |
| Weight/Carton | 7.5kg | 9.5kg | 11.5kg |

*Tolerance of Carton Size: ± 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 you so that you are never in the dark!

BETTER LIGHTS. BETTER SUPPORT.

