500W ORION IV | LED HIGH BAY LINEAR LIGHT

PRODUCT DESCRIPTION

Orion IV 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.

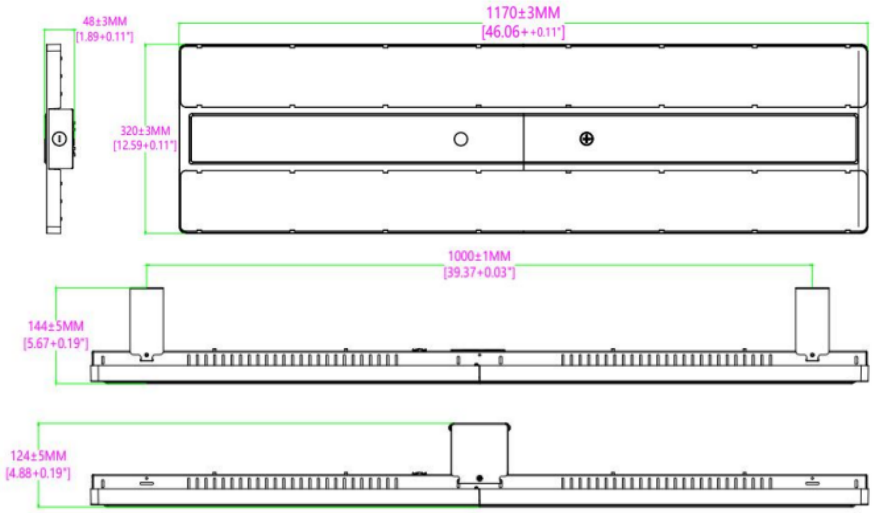
DLC #:

RGL-ORION-4-TT-500W

PRODUCT FEATURES & COMMON USE APPLICATIONS

- ➢ UL, cUL, certificate.
- ➢ Lumileds Chip, high CRI.
- ➢ Input voltage120-277VAC .
- ➢ Wattage adjustable.
- ➢ 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.
- ➢ Exhibition Hall and supermarkets, etc.

PRODUCT DIMENSIONS



Rugged Grade Lighting
Industrial Grade Solutions

888-953-2476
sales@ruggedgrade.com

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PRODUCT TECHNICAL SPECIFICATIONS

OPTICAL	Input Power (Tolerance: ±10%)	500W (Wattage adjustable range 25%-100%
	Color Temperature	4000K/5000K
	Lumen (Tolerance: -10%)	70,000 – 72,000 LM
	Efficacy (Tolerance: -3%)	135-145 LM/W
	CRI	>80
	Color Consistency	＜7 Steps (or ＜7 SDCM)
	UGR	＜28 (X=4H, Y=8H; S/H=1; Reflectances: 70%/50%/20%)
	Diffuser Type	PC Lens
	Beam Angle (50%) (Tolerance: ±15%)	90 Degree @ Matte Lens
ELECTRICAL	Input Voltage and Frequency	120-277VAC, 50/60Hz
	PF (Tolerance: -3%)	≥0.9
	THD (Tolerance: +5%)	≤20%
	Flicker Percent	＜5%
	Driver Brand	BECKY
	Driver Model	BQE155C-130-PVF-AUX
	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
MATERIALS	LED Brand	Lumileds
	LED Type	SMD 2835
	LED QTY	832*2 PCS
	Housing	IRON
	Housing Color	White
	Waterproof Rating	DAMP （IP20)
OTHERS	Operating Temperature	Without Motion Sensor: -30℃ TO 50℃
	Storage Temperature	-40℃ TO 80℃
	Operating Humidity	20% - 90% RH
	Storage Humidity	10% - 95% RH
	Warranty	5 years warranty with 24/7 operating hours Luminaire lifetime

PRODUCT MOUNTS & ACCESSORIES




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PRODUCT IMAGES & ACTUAL INSTALLATIONS

500W ORION IV | LED HIGH BAY LINEAR LIGHT

RuggedGrade

PHOTOMETRICS & DLC PRODUCT SPEC

Product ID: S-8QSU1N

RGL-ORION-4-TT-500WBML1A1-ab40/50KWD

Manufacturer: RuggedGrade
Brand: RuggedGrade

PRODUCT OVERVIEW	
Classification	Premium
Primary Use	High Bay Luminaires for Commercial and Industrial Buildings
Reported Input Wattage	496.8 W
Reported Light Output	69937 lm
Reported CCT	4000 K
Reported CRI (Ra)	86
Product ID	S-8QSU1N
DLC Family Code	SLFAWW
Listing Status	Listed
Date Qualified	2023-12-13

PRODUCT INFORMATION	
Qualified Product List	Solid State Lighting
Technical Requirements Version	5.1
Product ID	S-8QSU1N
Manufacturer	RuggedGrade
Brand	RuggedGrade
Model Number	RGL-ORION-4-TT-500WBML1A1-ab40/50KWD
Parent	Yes
Classification	Premium

PRODUCT CATEGORIZATION — VIEW DETAILS

CONTROL FEATURES — VIEW DETAILS

REPORTED PHOTOMETRIC PERFORMANCE — VIEW DETAILS

REPORTED ELECTRICAL PERFORMANCE	
Reported Input Wattage	496.8 W
Reported Total Harmonic Distortion	15 %
Reported Power Factor	0.9
Reported Minimum Input Wattage	125 W
Reported Maximum Input Wattage	496.8
Reported Default Input Wattage	496.8 W
Voltage Range	120-277 V

TESTED PHOTOMETRIC PERFORMANCE	
Tested Voltage for Minimum Efficacy	120
Tested Light Output	69937 lm
Tested Efficacy (AC)	140.79 lm/W
Tested CCT	4128 K
Tested CRI (Ra)	86
Tested IES Rf	85
Tested IES Rg	95
Tested IES Rcs,h1	-11 %

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm): 1170
Luminous Height (mm):
Current: 3.974 A
Power Factor: 0.999

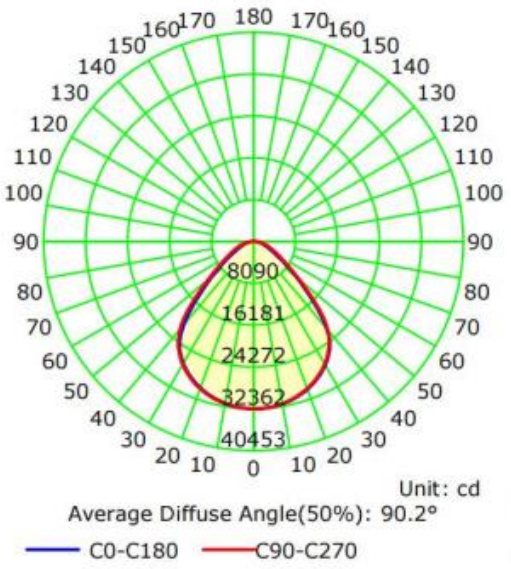
Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm): 320
Voltage: 120.0 V
Power: 476.35 W

Photometric Results

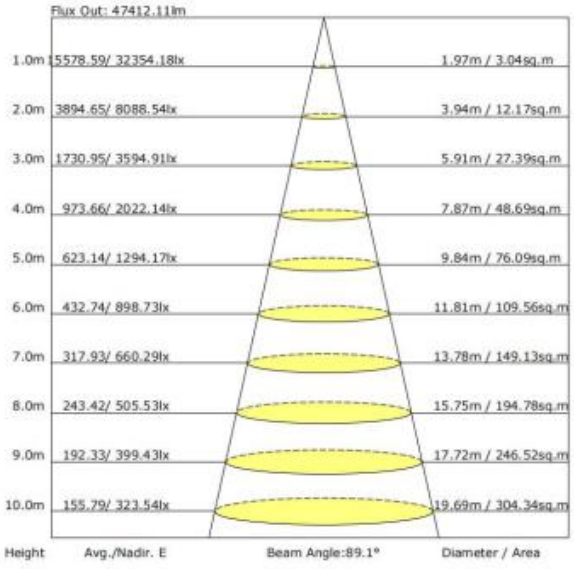
CIE Class: Direct
Measurement Flux: 67419.7 lm
Downward Ratio: 100%
Horizontal Diffuse Angle(10%,50%): H131.5,H89.1
Vertical Diffuse Angle(10%,50%): V140.2,V91.2
Luminaire Efficacy Rating (LER): 141.58
Max. Intensity: 32362.71 cd
S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 67419.7 lm
Efficiency: 100%
Upward Ratio: 0%
C0r0 Intensity: 32354.18 cd
Pos of Max. Intensity: H45 V1
S/MH(C90/C270): 1.25

Luminous Intensity Distribution Curve



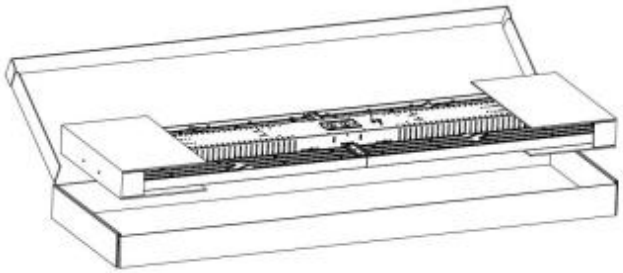
The Average Illuminance Effective Figure



PRODUCT PACKAGING

	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Outer box (No Sensor/ DC Sensor)	1190*340*85 MM [46.85*13.38*3.35 inch]	1 PC	7.2 KG[15.84 LBS]	8.4 KG[18.48 LBS]

Tolerance of Carton Size: ±15 MM[±0.59 inch], Tolerance of Weight: ±10%.



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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!