110W 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.

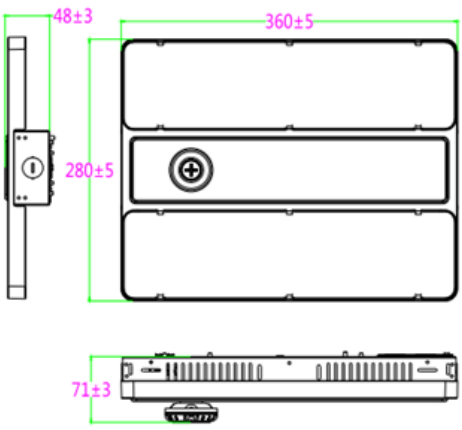
DLC #:

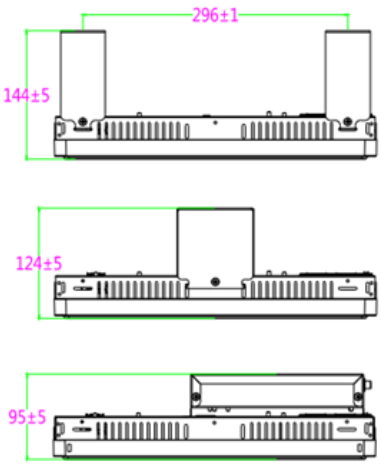
RGL-ORION-4-TT-110W

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%)	110W(Wattage Selectable Model: 110/90/70)
	Color Temperature	4000K/5000K
	Lumen (Tolerance: -10%)	14,500 - 15,500 LM
	Efficacy (Tolerance: -3%)	135-140 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: 4kV
	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	390 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

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RuggedGrade

PHOTOMETRICS & DLC PRODUCT SPEC

Product ID: S-NTH8YR

DLC LISTED PREMIUM

RGL-ORION-4-110WBMP1A1-S-ab40

Manufacturer: RuggedGrade
Brand: RuggedGrade

PRODUCT OVERVIEW	
Classification	Premium
Primary Use	High Bay Luminaires for Commercial and Industrial Buildings
Reported Input Wattage	108.5 W
Reported Light Output	14660 lm
Reported CCT	4000 K
Reported CRI (Ra)	82
Product ID	S-NTH8YR
DLC Family Code	EMWBFB
Listing Status	Listed
Date Qualified	2023-08-18

PRODUCT INFORMATION	
Qualified Product List	Solid State Lighting
Technical Requirements Version	5.1
Product ID	S-NTH8YR
Manufacturer	RuggedGrade
Brand	RuggedGrade
Model Number	RGL-ORION-4-110WBMP1A1-S-ab40
Parent	Yes
Classification	Premium

PRODUCT CATEGORIZATION — VIEW DETAILS

CONTROL FEATURES — VIEW DETAILS

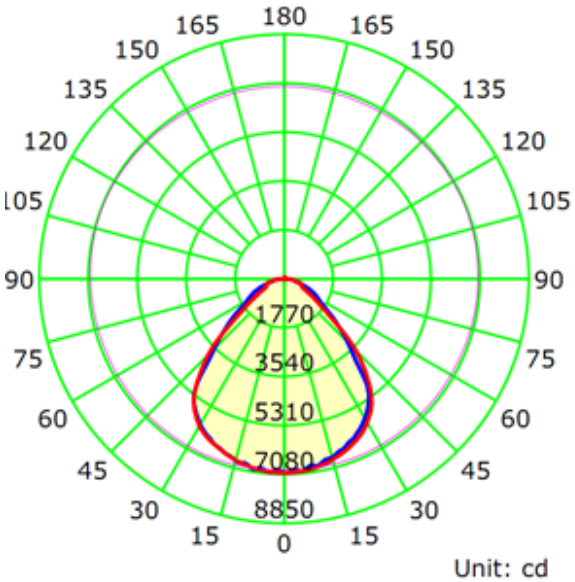
REPORTED PHOTOMETRIC PERFORMANCE	
Reported Light Output	14660 lm
Reported Efficacy (AC)	135.16 lm/W
Reported CCT	4000 K
Reported CRI (Ra)	82
Reported R9	6
Reported IES Rf	84
Reported IES Rg	95
Reported IES Rcs,h1	-12

REPORTED ELECTRICAL PERFORMANCE	
Reported Input Wattage	108.5 W
Reported Total Harmonic Distortion	15 %
Reported Power Factor	0.9
Reported Default Input Wattage	108.5 W
Voltage Range	120-277 V

Photometric Results

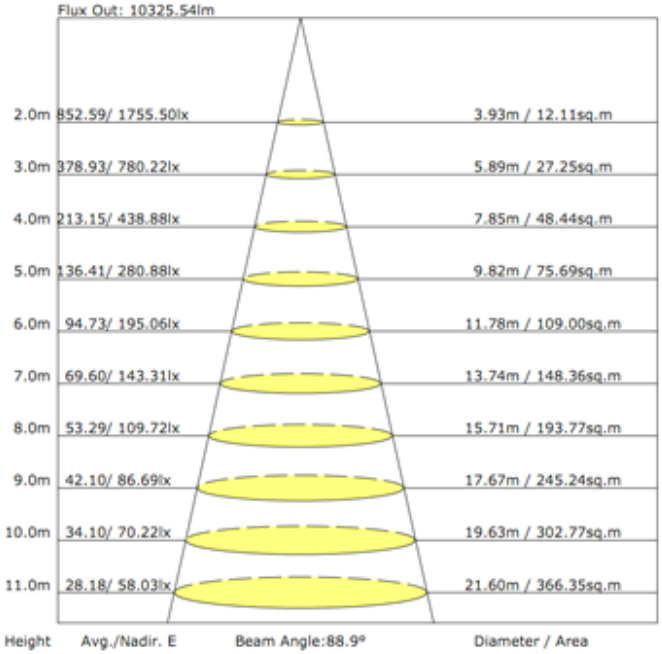
CIE Class: Direct
Total Rated Lamp Lumens: 15106.7 lm
Measurement Flux: 15106.7 lm
Efficiency: 100%
Downward Ratio: 99%
Upward Ratio: 1%
Horizontal Diffuse Angle(10%,50%): H144.8,H89
Vertical Diffuse Angle(10%,50%): V133.7,V92.2
Luminaire Efficacy Rating (LER): 138.20
Central Intensity: 7022.01 cd
Max. Intensity: 7080.33 cd
Pos of Max. Intensity: H247.5 V3
S/MH(C0/C180): 1.25
S/MH(C90/C270): 1.27

Luminous Intensity Distribution Curve



Unit: cd
Average Diffuse Angle(50%): 90.6°

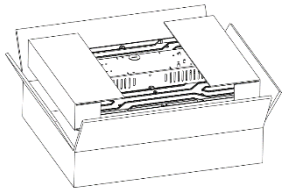
The Average Illuminance Effective Figure



PRODUCT PACKAGING

	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Outer box (No Sensor/ DC Sensor)	380*300*75 MM	1 PC	2.0KG/PC	2.6KG

*Tolerance of Carton Size: ±15 MM, Tolerance of Weight



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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!