

300W ORION IV | LED HIGH BAY LINEAR LIGHT



RuggedGrade

PRODUCT DESCRIPTION

The ultimate premium LED Linear High Bay Light with 140lm/w efficiency for cost savings, IP20 damp rating for diverse environments, 0-100% dimmability for ambiance control, Lifud driver for reliability and 6kV surge protection for longevity. Featuring a comfortable, glare-free matte lens and iron housing, it's DLC Premium 5.1 certified for rebates. Opt for the motion sensor for added efficiency. Elevate your lighting solutions with Orion IV Series.



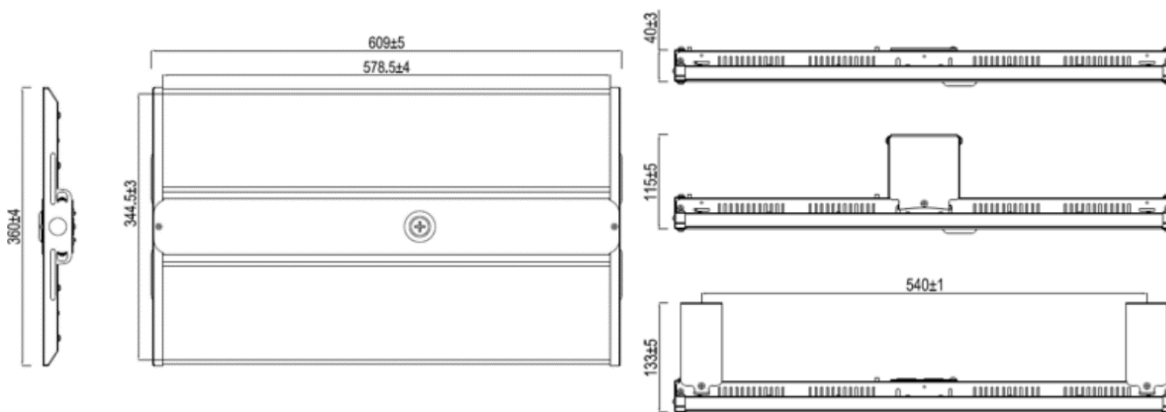
DLC #:

RGL-ORION-4-TT-300W

PRODUCT FEATURES & COMMON USE APPLICATIONS

- UL, cUL, certificate.
- Lumileds Chip, high CRI.
- Input voltage 120-277VAC.
- 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



LEGENDARY USA SUPPORT



US based phone and online customer support

DLC CERTIFIED

5 YEARS WARRANTY



LISTED



Rugged Grade Lighting
Industrial Grade Solutions



888-953-2476
sales@ruggedgrade.com



PRODUCT TECHNICAL SPECIFICATIONS

OPTICAL	Input Power (Tolerance: ±10%)	300W(Wattage selectable model)
	Color Temperature	4000K/5000K
	Lumen (Tolerance: -10%)	39000 - 41,900 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	Sosen
	Driver Model	SS-200NH-E260BH
	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	1092 PCS
	Housing	IRON
	Housing Color	White
	Waterproof Rating	DAMP (IP20)
OTHERS	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

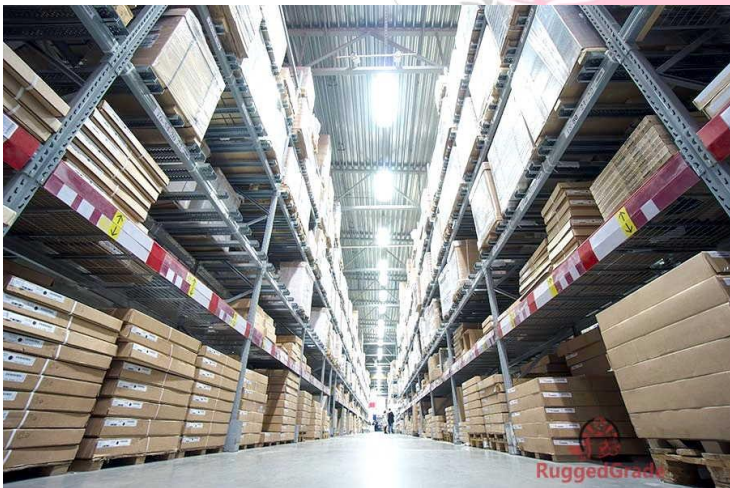
PRODUCT MOUNTS & ACCESSORIES



300W ORION IV | LED HIGH BAY LINEAR LIGHT



PRODUCT IMAGES & ACTUAL INSTALLATIONS



Rugged Grade Lighting
Industrial Grade Solutions



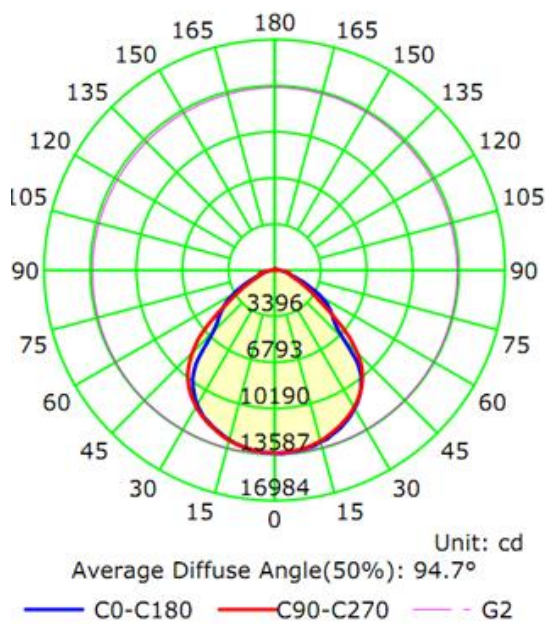
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PHOTOMETRICS & DLC PRODUCT SPEC

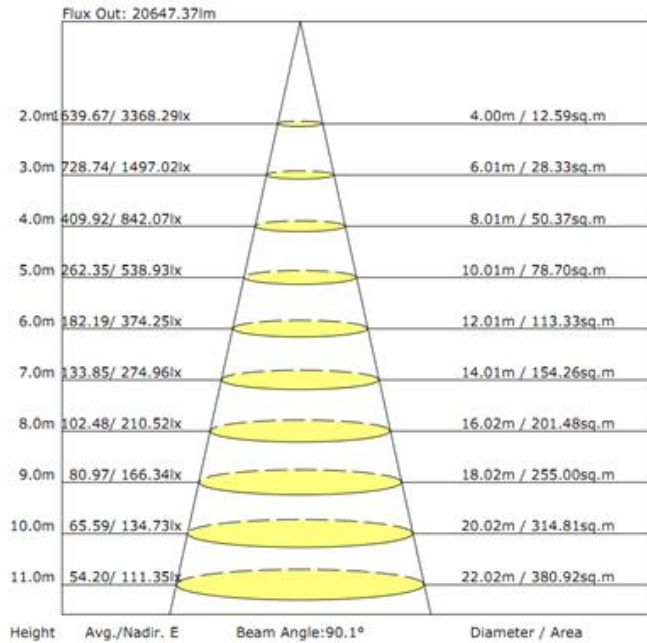
Photometric Results

CIE Class: Direct	Total Rated Lamp Lumens: 31088.3 lm
Measurement Flux: 31088.3 lm	Efficiency: 100%
Downward Ratio: 99%	Upward Ratio: 1%
Horizontal Diffuse Angle(10%,50%): H142.9,H90.1	
Vertical Diffuse Angle(10%,50%): V139.6,V99.3	
Luminaire Efficacy Rating (LER): 140.43	Central Intensity: 13473.18 cd
Max. Intensity: 13587.92 cd	Pos of Max. Intensity: H337.5 V2
S/MH(C0/C180): 1.27	S/MH(C90/C270): 1.28

Luminous Intensity Distribution Curve



The Average Illuminance Effective Figure



LEGENDARY USA SUPPORT



DLC FOR TT(40K/50K)

Product ID: S-PJOEIQ



RGL-ORION-4-TT-300WBML1A1-abdW40/50

Manufacturer: RuggedGrade
Brand: RuggedGrade



PRODUCT OVERVIEW

Model Number	RGL ORION 4 TT-300WBML1A1-abdW40/50
Classification	Premium
Primary Use	High Bay Luminaires for Commercial and Industrial Buildings
Reported Input Wattage	299.3 W
Reported Light Output	41744 lm
Reported CCT	5000 K
Reported CRI (Ra)	84
Product ID	S-PJOEIQ
DLC Family Code	SLFAWZ
Listing Status	Listed
Date Qualified	2023-12-13

PRODUCT INFORMATION

Qualified Product List	Solid State Lighting
Technical Requirements Version	5.1
Product ID	S-PJOEIQ
Manufacturer	RuggedGrade
Brand	RuggedGrade
Model Number	RGL ORION 4 TT-300WBML1A1-abdW40/50
Parent	Yes
Classification	Premium

PRODUCT CATEGORIZATION

[VIEW DETAILS](#)

CONTROL FEATURES

[VIEW DETAILS](#)

REPORTED PHOTOMETRIC PERFORMANCE

Reported Light Output	41744 lm
Reported Efficacy (AC)	139.46 lm/W
Reported CCT	5000 K
Reported CRI (Ra)	84
Reported R9	12
Reported IES Rf	84
Reported IES Rg	95
Reported IES Rcs,h1	12

REPORTED ELECTRICAL PERFORMANCE

Reported Input Wattage	299.3 W
Reported Total Harmonic Distortion	15 %
Reported Power Factor	0.9
Reported Minimum Input Wattage	75 W
Reported Maximum Input Wattage	293.8
Reported Default Input Wattage	293.8 W
Voltage Range	120-277 V



DLC FOR SINGLE CCT(50K)

Product ID: S-8ZUDVK



RGL-ORION-4-300WBMP1A1-ab50

Manufacturer: RuggedGrade
Brand: RuggedGrade



PRODUCT OVERVIEW

Model Number RGL-ORION-4-300WBMP1A1-ab50

Classification Premium

Primary Use High Bay Luminaires for Commercial and Industrial Buildings

Reported Input Wattage 304.4 W

Reported Light Output 42392 lm

Reported CCT 5000 K

Reported CRI (Ra) 83

Product ID S-8ZUDVK

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-8ZUDVK

Manufacturer RuggedGrade

Brand RuggedGrade

Model Number RGL-ORION-4-300WBMP1A1-ab50

Parent No

Classification Premium

PRODUCT CATEGORIZATION

[VIEW DETAILS](#)

CONTROL FEATURES

[VIEW DETAILS](#)

REPORTED PHOTOMETRIC PERFORMANCE

Reported Light Output 42392 lm

Reported Efficacy (AC) 139.27 lm/W

Reported CCT 5000 K

Reported CRI (Ra) 83

Reported R9 9

Reported IES Rf 84

Reported IES Rg 96

Reported IES Rcs, h1 -12

REPORTED ELECTRICAL PERFORMANCE

Reported Input Wattage 304.4 W

Reported Total Harmonic Distortion 15 %

Reported Power Factor 0.9

Reported Default Input Wattage 300 W

Voltage Range 120-277 V

VERSION HISTORY

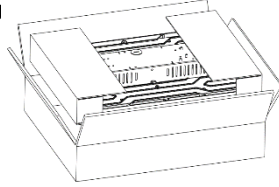
[VIEW DETAILS](#)



PRODUCT PACKAGING

	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Outer box (No Sensor/ DC Sensor)	660*380*65 MM	1 PC	2.9KG/PC	4.1KG

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



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.

