

PRODUCT DESCRIPTION

Ultimate Versatility in Lighting! The new Kivo II CS is now packed with Tunable Technology from RuggedGrade giving you control to choose Kelvin Color & Wattage on fixture! With a High Efficiency of up to 145 Lumen to Watt, this version now gives you Dusk to Dawn lighting capability and comes with a port for an optional motion sensor, so you decide your best lighting options!

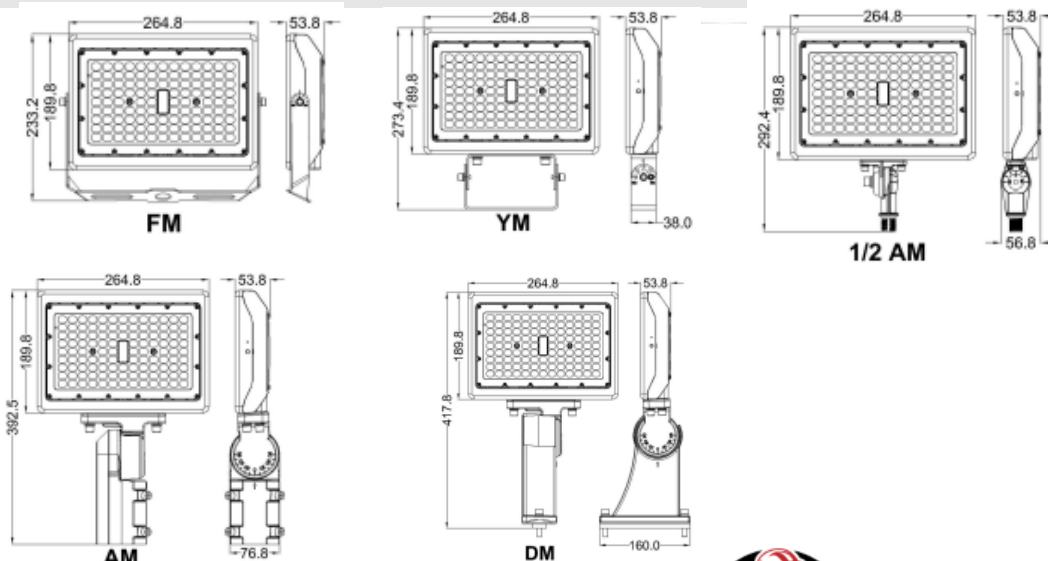


DLC #: RGL-KIVO2-90WBH8DA1

PRODUCT FEATURES & COMMON USE APPLICATIONS

- UL cUL DLC 5.1 Premium certificate.
- Bridgelux Chip, high CRI
- IP65 driver, input voltage 120-277VAC.
- Color Adjustable.
- 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.
- Outdoor basketball court, tennis court.
- Badminton court, the football field.
- The school playground, stadium.
- Community leisure entertainment plaza,
- Warehouse, factory and workshops ;
- Highway toll station ;
- Meeting room, exhibition hall ;
- Gymnasium and supermarkets, etc.

PRODUCT DIMENSIONS



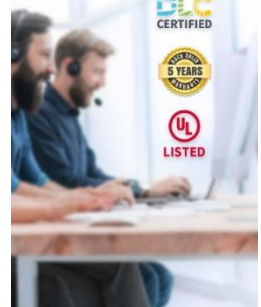
Rugged Grade Lighting
Industrial Grade Solutions



LEGENDARY USA SUPPORT



US based
phone and online
customer support



888-953-2476
sales@ruggedgrade.com

PRODUCT TECHNICAL SPECIFICATIONS

OPTICAL	Input Power (Tolerance : ±10%)	90W(Wattage Selectable)
	Color Temperature (Color Tunable)	5000K
	Lumen(Tolerance: ±10%)	12600LM
	Efficacy(Tolerance : ±3%)	140LM/W
	CRI	>80
	Color Consistency	<7 Steps (or <7 SDCM)
	Distribution Pattern	7H6V
	Field Angle (10%) (Tolerance : ±15%)	150 Degree
ELECTRICAL	Input Voltage and Frequency	120-277VAC, 50/60Hz
	PF (Tolerance : -3%)	≥0.9
	THD (Tolerance : +5%)	≤20%
	Flicker Percent	<30%
	Driver Brand	Rugged Grade
	Driver Model	RG-FL19F080
	Driver Surge protection	L/N-PE: 2.5kV, L-N: 2.5kV
	Dimming	0-10V dimming standard
	Sensor Type	No Sensor
	Optional Accessory	Surge-protective Device
MATERIALS	LED Brand	Lumileds
	LED Type	SMD2835
	LED QTY	112 PCS
	Housing	Die-cast aluminum
	Housing Color	Brown, Black, or Customized
	EPA	0.56 ft²
	Waterproof Rating	WET (IP65)
OTHERS	Operating Temperature	-30°C TO 45°C;
	Storage Temperature	-40°C TO 80°C
	Operating Humidity	20% - 90% RH
	Storage Humidity	20% - 95% RH
	Warranty	5 years

PRODUCT MOUNTS & ACCESSORIES

AM



YM



FM





PHOTOMETRICS

Luminaire Property

Luminaire Manufacturer:
 Voltage: 119.6 V
 Power: 93.90 W

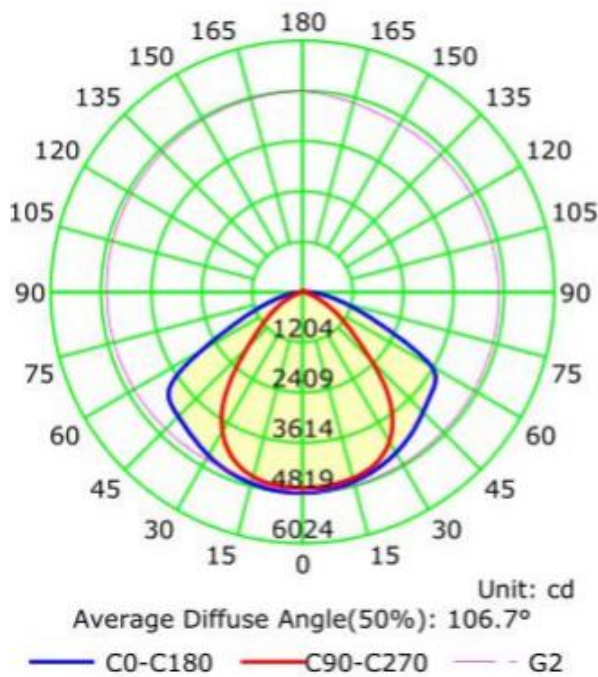
Current: 0.788 A
 Power Factor: 0.996

Photometric Results

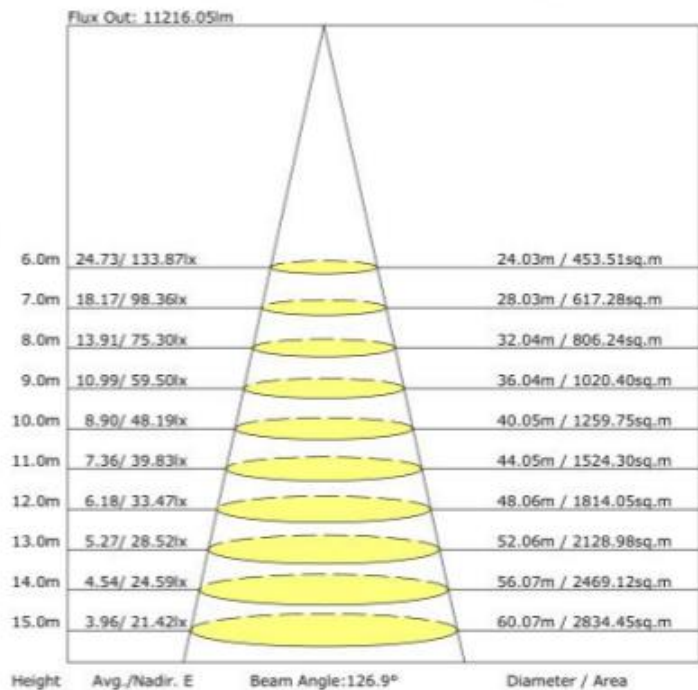
IES Classification: Type II
 Total Rated Lamp Lumens: 12552.2 lm
 Efficiency: 100%
 Upward Ratio: 1%
 Central Intensity: 4819.41 cd
 Pos of Max. Intensity: H180 V2

Longitudinal Classification: Very Short
 Measurement Flux: 12552.2 lm
 Downward Ratio: 99%
 Luminaire Efficacy Rating (LER): 133.73
 Max. Intensity: 4819.78 cd

Luminous Intensity Distribution Curve



The Average Illuminance Effective Figure



DLC PRODUCT SPEC(TT/3CCT)

Product ID: S-VTNZ93

X



RGL-KIVO2-TT-90WBH8A1-abcdCA30/40/50

Manufacturer: RuggedGrade
Brand: RuggedGrade



PRODUCT OVERVIEW

Model Number	RGL-KIVO2-TT-90WBH8A1- abcdCA30/40/50
Classification	Premium
Primary Use	Architectural Flood and Spot Luminaires
Reported Input Wattage	90.9 W
Reported Light Output	12005 lm
Reported CCT	3000 K
Reported CRI (Ra)	81
Product ID	S-VTNZ93
DLC Family Code	SLFAWU
Listing Status	Listed
Date Qualified	2023-12-13

PRODUCT INFORMATION

Qualified Product List	Solid State Lighting
Technical Requirements Version	5.1
Product ID	S-VTNZ93
Manufacturer	RuggedGrade
Brand	RuggedGrade
Model Number	RGL-KIVO2-TT-90WBH8A1- abcdCA30/40/50
Parent	Yes
Classification	Premium

PRODUCT CATEGORIZATION

[VIEW DETAILS](#)

CONTROL FEATURES

[VIEW DETAILS](#)

REPORTED PHOTOMETRIC PERFORMANCE

Reported Light Output	12005 lm
Reported Efficacy (AC)	132.1 lm/W
Reported CCT	3000 K
Reported CRI (Ra)	81
Reported R9	3
Reported IES Rf	84
Reported IES Rg	96
Reported IES Rcs,h1	-12

REPORTED ELECTRICAL PERFORMANCE

Reported Input Wattage	90.9 W
Reported Total Harmonic Distortion	15 %
Reported Power Factor	0.9
Reported Minimum Input Wattage	90 W
Reported Maximum Input Wattage	90.9
Reported Default Input Wattage	90.9 W
Voltage Range	120-277 V



DLC PRODUCT SPEC(5000K)

Product ID: S-0M64NG

X



RGL-KIVO2-90WBH8A1-abcd50W

Manufacturer: RuggedGrade
Brand: RuggedGrade

PRODUCT OVERVIEW	
Model Number	RGL-KIVO2-90WBH8A1-abcd50W
Classification	Premium
Primary Use	Architectural Flood and Spot Luminaires
Reported Input Wattage	90.6 W
Reported Light Output	13013 lm
Reported CCT	5000 K
Reported CRI (Ra)	82
Product ID	S-0M64NG
DLC Family Code	SLFAWV
Listing Status	Listed
Date Qualified	2023-12-13

PRODUCT INFORMATION	
Qualified Product List	Solid State Lighting
Technical Requirements Version	5.1
Product ID	S-0M64NG
Manufacturer	RuggedGrade
Brand	RuggedGrade
Model Number	RGL-KIVO2-90WBH8A1-abcd50W
Parent	No
Classification	Premium

PRODUCT CATEGORIZATION	VIEW DETAILS
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CONTROL FEATURES	VIEW DETAILS
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REPORTED PHOTOMETRIC PERFORMANCE	
Reported Light Output	13013 lm
Reported Efficacy (AC)	143.61 lm/W
Reported CCT	5000 K
Reported CRI (Ra)	82
Reported R9	5
Reported IES Rf	84
Reported IES Rg	97
Reported IES Rcs,h1	-11

REPORTED ELECTRICAL PERFORMANCE	
Reported Input Wattage	90.6 W
Reported Total Harmonic Distortion	15 %
Reported Power Factor	0.9
Reported Minimum Input Wattage	22.5 W
Reported Maximum Input Wattage	90.6
Reported Default Input Wattage	90.6 W
Voltage Range	120-277 V





PRODUCT PACKAGING

Bracket Type	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
AM, YM, FM	Outer box: 695*370*355 mm [27.36*14.57*13.98 inch]	5 PCS	17.8Kg	18.8Kg
	Inner box: 55*335*135 mm [13.98*13.19*5.31 inch]	1 PC	1.5Kg	1.8Kg

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

