

120W KIVO II CS SERIES | LED FLOODLIGHT



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!

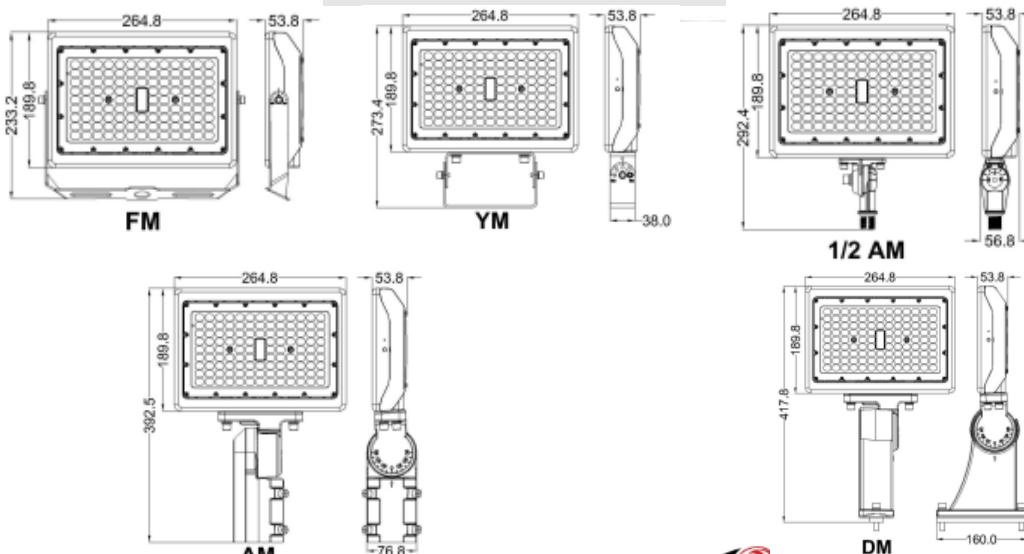


DLC #: RGL-KIVO2-TT-120WBH8DA1

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%)	120W (120W/108W/96W/84W wattages selectable)		
	Color Temperature (Color Tunable)	3000K	4000K	5000K
	Lumen(Tolerance: ±10%)	15710LM	17150LM	15820LM
	Efficacy(Tolerance : ±3%)	127LM/W	149LM/W	131LM/W
	CRI	>70		
	Color Consistency	<7 Steps (or <7 SDCM)		
	Distribution Pattern	7H6V		
	Field Angle (10%) (Tolerance : ±15%)	150*130 Degree		
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-120NH-E260BH		
	Driver Surge protection	L-N 6KV,L&N-PE 6KV		
	Dimming	0-10V dimming standard		
	Sensor Type	Exterior Photocell / Integral Sensor Receptacle		
	Optional Accessory	Photocell / Surge protector		
	MATERIALS	LED Brand	Lumileds	
LED Type		SMD2835		
LED QTY		224		
Housing		Die-cast aluminum		
Housing Color		Brown, Black, or Customized		
EPA		1.49 ft²		
Waterproof Rating		WET (IP65)		
OTHERS	Operating Temperature	-40°C TO 50°C		
	Storage Temperature	-40°C TO 80°C		
	Operating Humidity	10% - 90% RH		
	Storage Humidity	10% - 95% RH		
	Warranty	5 years		

PRODUCT MOUNTS & ACCESSORIES

AM



YM



FM



PRODUCT IMAGES & ACTUAL INSTALLATIONS

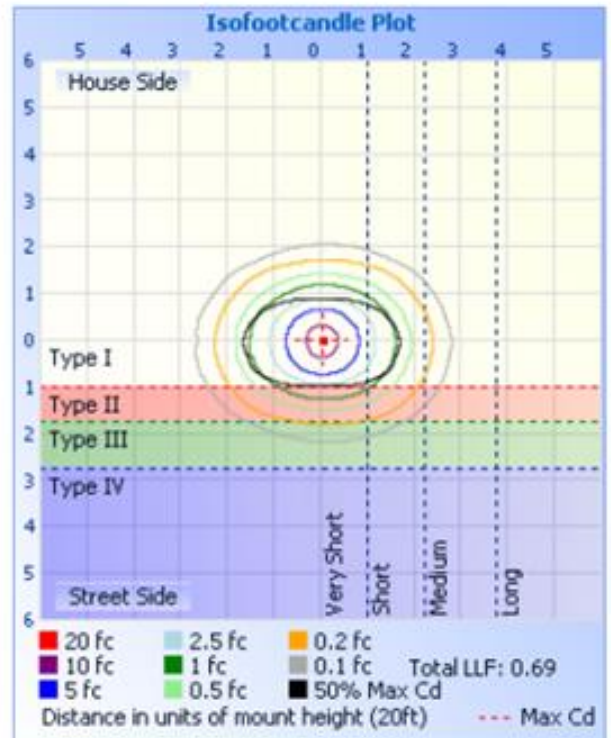
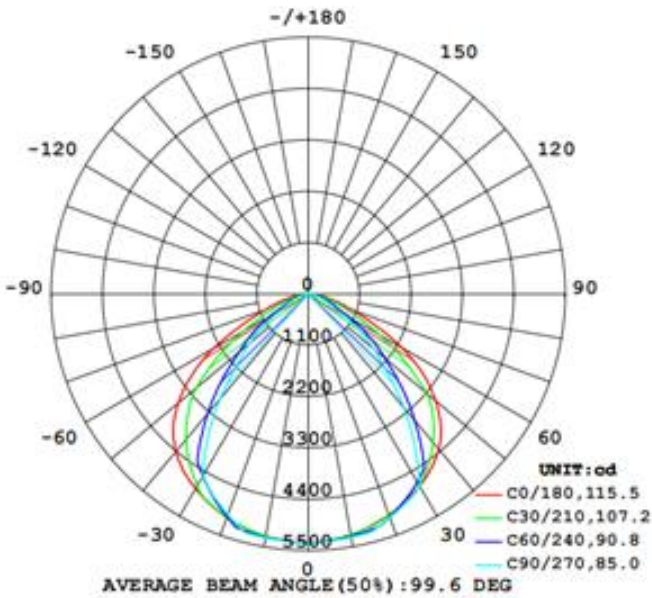


PHOTOMETRICS

Test:U:118.89V I:1.0170A P:120.52W PF:0.9968 Freq:60.00Hz Lamp Flux:15823.3x1 lm		
NAME:		SERIAL No.:
SPEC.:		
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	6605	η street_up (%)	0.0
NOMINAL POWER (W)	120	LOR (%)	100.0	η street_down (%)	51.0
RATED VOLTAGE (V)	120	TOTAL FLUX(lm)	15823	η house_up (%)	0.0
NOMINAL FLUX(lm)	15823.3	MAXIMUM θ (C, γ)	180,3.0	η house_down (%)	49.0
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	100.0	SLI	22.154

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



DLC SPECS

Product ID: S-SGJH26

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RGL-KIVO2-TT-120WBH8A1-abcdCA30/40/50W

Manufacturer: RuggedGrade
Brand: RuggedGrade

PRODUCT OVERVIEW

Model Number	RGL-KIVO2-TT-120WBH8A1-abcdCA30/40/50W
Classification	Premium
Primary Use	Architectural Flood and Spot Luminaires
Reported Input Wattage	121.9 W
Reported Light Output	15855 lm
Reported CCT	3000 K
Reported CRI (Ra)	82
Product ID	S-SGJH26
DLC Family Code	SLFAWU
Listing Status	Listed
Date Qualified	2024-03-22

PRODUCT INFORMATION

Qualified Product List	Solid State Lighting
Technical Requirements Version	5.1
Product ID	S-SGJH26
Manufacturer	RuggedGrade
Brand	RuggedGrade
Model Number	RGL-KIVO2-TT-120WBH8A1-abcdCA30/40/50W
Parent	Yes
Classification	Premium

PRODUCT CATEGORIZATION

[VIEW DETAILS](#)

CONTROL FEATURES

[VIEW DETAILS](#)

REPORTED PHOTOMETRIC PERFORMANCE

Reported Light Output	15855 lm
Reported Efficacy (AC)	130.12 lm/W
Reported CCT	3000 K
Reported CRI (Ra)	82
Reported R9	3
Reported IES Rf	85
Reported IES Rg	96
Reported IES Rcs, h1	-12

REPORTED ELECTRICAL PERFORMANCE

Reported Input Wattage	121.9 W
Reported Total Harmonic Distortion	15 %
Reported Power Factor	0.9
Reported Minimum Input Wattage	30 W
Reported Maximum Input Wattage	121.9
Reported Default Input Wattage	121.9 W
Voltage Range	120-277 V



PRODUCT PACKAGING

Bracket Type	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
FM	342*325*75mm [13.46*12.8*2.95 inch]	1pcs	3.0kg [6.61LBS]	3.4kg [7.5LBS]
1/2AM		1pcs	2.9kg [6.39LBS]	3.3kg [7.28LBS]
YM		1pcs	3.2kg [7.05LBS] LBS]	3.6kg [7.94LBS]
AM	485*315*150mm [19.09*12.4*5.91 inch]	1pcs	3.9kg [8.6LBS]	4.6kg [10.1LBS]
DM		1pcs	4.2kg [9.26LBS]	4.9kg [10.8LBS]

*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.

