

## PRODUCT DESCRIPTION

Arcana II adds a wattage selectable feature, top level DLC 5.1 Premium certification, with an Ultra-Efficient 145+ lumens per watt and Dark Sky Compliance, and a new clean design with a base that is 180 degrees rotatable



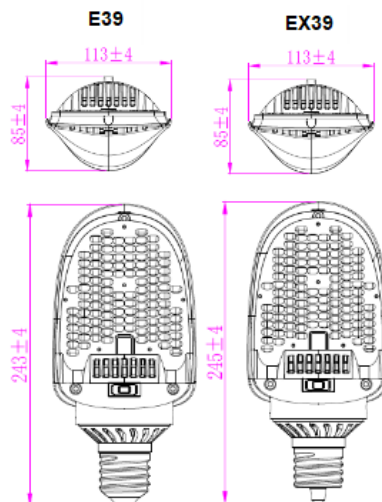
## DLC #:

RGL-ARCANA2-54W

## PRODUCT FEATURES & COMMON USE APPLICATIONS

- UL cUL certificate
- E39 EX39 lamp base.
- Big heat sink, With fan
- Internal driver, input voltage AC120-277V
- 0-10V dimming .
- Wattage adjustable options are available, segmented wattage adjustable
- Meet 4KV surge immunity level
- Long lifespan and good heat dissipation
- 90\*150 degree or 150 degree are optional
- Direct replacement for Metal Halide, easy installation
- Fits many different fixtures to replace traditional lamps
- Operating ambient temperature can up to 50 degree
- Rotatable to make sure the luminous direction of led area lamp is consistent with the outside fixture
- 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
- No-professionals, must not install and disassemble the lamps
- Suitable for damp locations. Do not use with dimmers
- Make sure to remove or bypass the ballast in the fixtures before install the lamps
- Suitable for use in enclosed luminaires, min. lamp compartment dimensions: 440\*260\*260MM

## PRODUCT DIMENSIONS



Rugged Grade Lighting  
Industrial Grade Solutions



## LEGENDARY USA SUPPORT



US based phone and online customer support



5 YEAR WARRANTY



888-953-2476  
sales@ruggedgrade.com

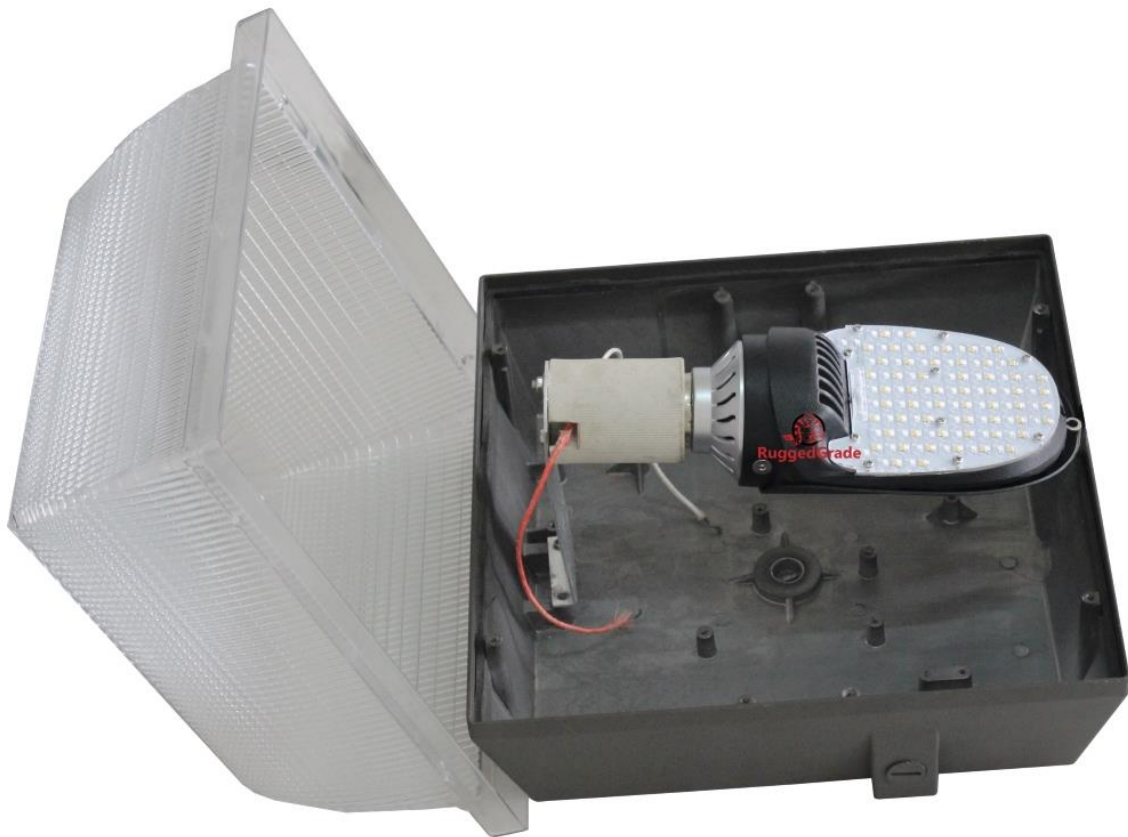
## PRODUCT TECHNICAL SPECIFICATIONS

<b>OPTICAL</b>	Input Power (Tolerance : ±10%)	54W			
	Color Temperature	3000K	4000K	5000K	6500K
	Lumen (Tolerance : -10%)	6100LM	6900LM	6600LM	6300LM
	Efficacy (Tolerance : -3%)	113LM/W	128LM/W	122LM/W	116LM/W
	CRI	70~79			
	Color Consistency	<6 Steps (or <6 SDCM)			
	BUG	B2-U2-G2			
	Diffuser Type	TYPE III			
	Beam Angle (50%) (Tolerance :	115Degree			
<b>ELECTRICAL</b>	Input Voltage and Frequency	120-277VAC, 50/60Hz			
	PF (Tolerance : -3%)	≥0.9			
	THD (Tolerance : +5%)	≤20%			
	Flicker Percent	<100%			
	Driver Brand	Rugged Grade Lighting			
	Driver Model	Rugged Grade Lighting Driver			
	Driver Surge protection	L-N: 4kV , L&N-E: 4kV			
	Dimming	0-10V dimming standard			
	Optional Accessory	None			
<b>MATERIALS</b>	LED Brand	Bridgelux			
	LED Type	SMD3030			
	LED QTY	112PCS			
	Housing	PC+ aluminum			
	Housing Color	All Color			
	Waterproof Rating	DAMP (IP64)			
<b>OTHERS</b>	Operating Temperature	-40°C TO 50°C			
	Storage Temperature	-40°C TO 80°C			
	Operating Humidity	20% - 70% RH			
	Storage Humidity	10% - 75% RH			
	Warranty	5 years warranty with 24/7 operating hours Luminaire lifetime			

## PRODUCT MOUNTS & ACCESSORIES



## PRODUCT IMAGES & ACTUAL INSTALLATIONS



PHOTOMETRICS & DLC PRODUCT SPEC

**Luminaire Property**

Luminaire Manufacturer:  
 Luminaire Category:  
 Lamp Catalog:  
 Number of Lamps:  
 Luminous Length (mm):  
 Luminous Height (mm):  
 Current: 0.457 A  
 Power Factor: 0.991

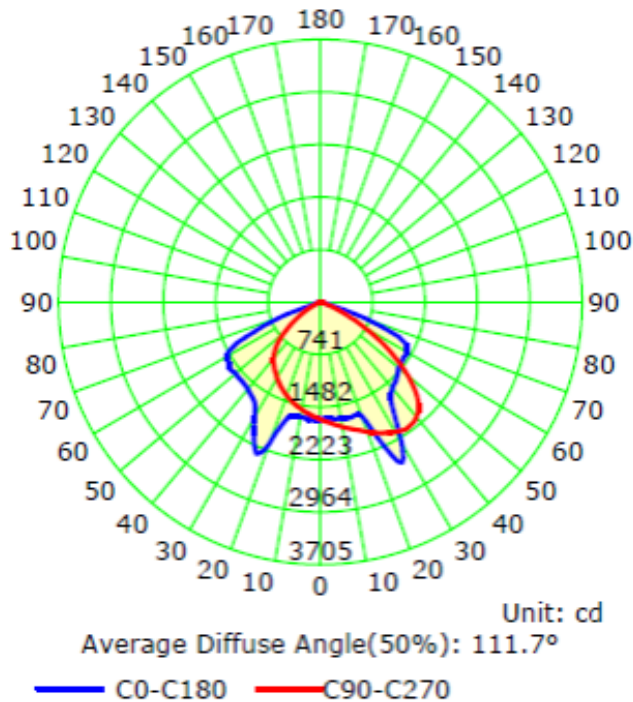
Luminaire Description:  
 Lamp Description:  
 Lumens per Lamp:  
 Luminous Width (mm):  
 Voltage: 120.0 V  
 Power: 54.36 W

**Photometric Results**

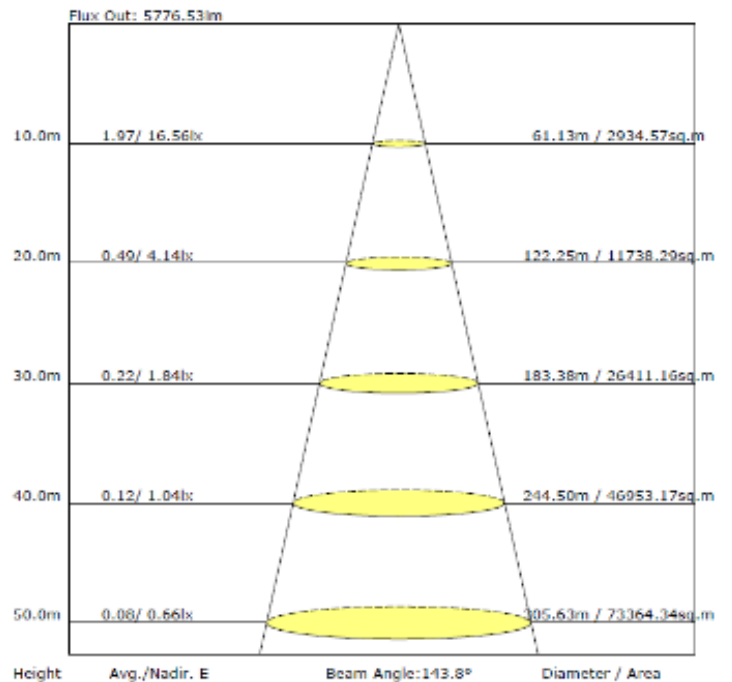
IES Classification: Type II  
 Total Rated Lamp Lumens: 5832.9 lm  
 Efficiency: 100%  
 Upward Ratio: 0%  
 C0r0 Intensity: 1656.37 cd  
 Pos of Max. Intensity: H22.5 V29  
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 129.4, 94.0, 98.0, 98.8

Longitudinal Classification: Very Short  
 Measurement Flux: 5832.9 lm  
 Downward Ratio: 100%  
 Luminaire Efficacy Rating (LER): 107.35  
 Max. Intensity: 2964.54 cd

Luminous Intensity Distribution Curve



The Average Illuminance Effective Figure



Product ID: S-4D0SEG



## RGL-ARCANA2-54WB3A1-a50K

Manufacturer: RuggedGrade  
Brand: RuggedGrade

### PRODUCT OVERVIEW

Classification	Standard
Primary Use	Replacement Lamps for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires (Type B)
Reported Input Wattage	55.5 W
Reported Light Output	6241 lm
Reported CCT	5000 K
Reported CRI (Ra)	83
Product ID	S-4D0SEG
DLC Family Code	SLFA/W
Listing Status	Listed
Date Qualified	2023-03-14

### PRODUCT INFORMATION

Qualified Product List	Solid State Lighting
Technical Requirements Version	5.1
Product ID	S-4D0SEG
Manufacturer	RuggedGrade
Brand	RuggedGrade
Model Number	RGL-ARCANA2-54WB3A1-a50K
Parent	No
Classification	Standard

### PRODUCT CATEGORIZATION

[VIEW DETAILS](#)

### CONTROL FEATURES

[VIEW DETAILS](#)

### REPORTED PHOTOMETRIC PERFORMANCE

Reported Light Output	6241 lm
Reported Efficacy (AC)	112.46 lm/W
Reported CCT	5000 K
Reported CRI (Ra)	83
Reported R9	11
Reported IES Rf	85
Reported IES Rg	96
Reported IES Rcs,h1	-11

### REPORTED ELECTRICAL PERFORMANCE

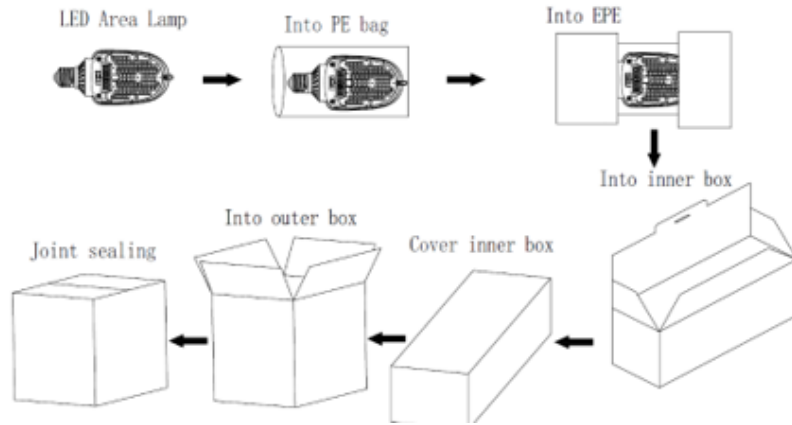
Reported Input Wattage	55.5 W
Reported Total Harmonic Distortion	15 %
Reported Power Factor	0.9
Reported Minimum Input Wattage	36 W
Reported Default Input Wattage	55.5 W
Voltage Range	120-277 V



## PRODUCT PACKAGING

	Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Inner box	290*135*105 MM	1PCS	0.76KG	0.92 KG
Outer box	560*310*235 MM	8PCS	6.08 KG	8.1 KG

Tolerance of Outer 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.**

