



Vega Series **GL-AR111 Series**

AR111 LED bulbs

GL-AR111 Series use typical 12 watts of power and emit over four hundred lumens of "Warm White" or "Cool White" light. Both dimmable and non-dimmable bulbs are available.

GL-AR111 / AR111AN / AR111ADx

Features

- For indoor use only
- Direct replacement for traditional AR111 halogen lamps
- Compatible with traditional electronic transformers
- Power conversion efficiency > 80%
- Built with highly efficacious LEDs
- No UV or IR radiation
- Cool light prevents heat generation
- Energy-saving and environment-friendly
- G53 base for extra retention in lampholder
- RoHS compliance
- Low heat generation
- Robust and durable
- Fast electrical response
- 2 years warranty



The LED Lamp Advantage

More energy-efficient than halogen

LED lamps, very efficacious in converting power into light, may achieve over 70% of power saving as compared with traditional halogen lamps.

Long lifespan

The averaged lifespan of LED lamps is at least 10 times that of halogen lamps, eliminating the need for frequent replacements.

Healthy Lighting

Except particular applications such as tanning booths, mosquito killers and so on, LED lamps for general lighting emit neither ultraviolet (UV) nor infrared (IR) that may harm health.

Environment friendly

LED lamps do not contain mercury, sodium, and other hazardous chemical elements, possibly necessary for certain traditional light sources and unfriendly to the ecological environment.

No perceptible flickering

Traditional lamps driven by an AC current with a relatively low frequency may produce perceptible flickering that may lead to eye discomfort or injury while LED lamps driven by a DC current with a relatively high frequency will not.

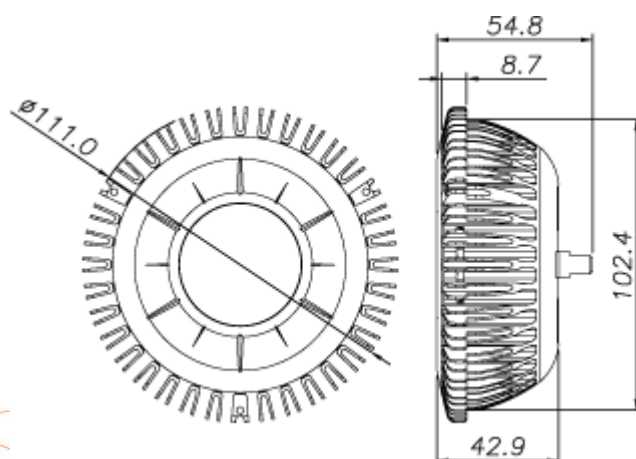
High luminous efficacy

The increasingly high luminous efficacy (lm/W) of LED lamps provides more light output (lm) with less power input (W), turning LED lamps into the mainstream in the lighting industry.

Low power consumption

Under the condition of the same output light, LED lamps consume less input power than traditional lamps, reimbursing you by reducing power bill.

Outline / Dimension



Specifications

GL-AR111 (non-dimmable)

Type	GL-AR111-WW	GL-AR111-CW
Energy Used	12 W	
Rated Life	30,000 Hours	
Input Voltage	12V AC/DC	
CCT(Color)	3000K	6000K
Luminous Flux (lm)	630 lm	760 lm
System Efficacy	53 lm/W	63 lm/W
CRI	80	70
Base	G53	
Beam Angle	20°	
Dimension	Φ 111x 54.8 mm	
IP Rating	IP20	
Operation Temperature	-20°C ~ +40°C	
Net Weight	270 g	
Package	36 Box / Carton	

GL-AR111AN (non-dimmable)

Type	GL-AR111AN-WW	GL-AR111AN-CW
Energy Used	12 W	
Rated Life	30,000 Hours	
Input Voltage	100-240V AC	
Power Factor (PF)	0.92 at 120V AC, 0.8 at 240V AC	
CCT(Color)	3000K	6000K
Luminous Flux (lm)	630 lm	760 lm
System Efficacy	53 lm/W	63 lm/W
CRI	80	70
Base	G53	
Beam Angle	20°	
Dimension	Φ 111x 54.8 mm	
IP Rating	IP20	
Operation Temperature	-20°C ~ +40°C	
Bundled Driver	GP-HS10P-36C (Driver Output : Constant Current 350mA, 36V)	
Net Weight	390 g (with driver)	
Package	36 Box / Carton	

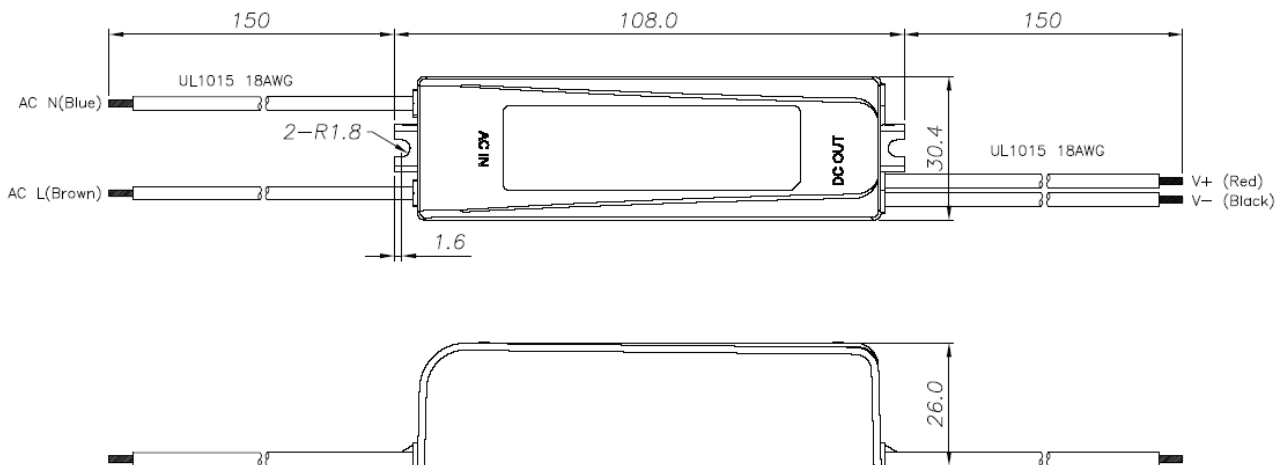
GL-AR111ADx (AC-TRIAC dimmable)

Type	GL-AR111ADL-WW GL-AR111ADH-WW	GL-AR111ADL-CW GL-AR111ADH-CW
Energy Used	12 W	
Rated Life	30,000 Hours	
Input Voltage	100-120V AC (GL-AR111ADL) 200-240V AC (GL-AR111ADH)	
Power Factor (PF)	0.92 at 120V AC, 0.8 at 240V AC (without dimmer)	
CCT(Color)	3000K	6000K
Luminous Flux (lm)	630 lm	760 lm
System Efficacy	53 lm/W	63 lm/W
CRI	80	70
Base	G53	
Beam Angle	20°	
Dimension	Φ 111x 54.8 mm	
IP Rating	IP20	
Operation Temperature	-20°C ~ +40°C	
Bundled Driver	GP-TS10P-30L (for AC-TRIAC 100-120V AC) GP-TS10P-30H (for AC-TRIAC 200-240V AC) (Driver Output : Constant Current 350mA, 30V)	
Net Weight	390 g (with driver)	
Package	36 Box / Carton	

LED Driver Dimensions

Dimmable: **GP-TS10P-30L /GP-TS10P-30H**

Non-Dimmable: **GP-HS10P-36C**

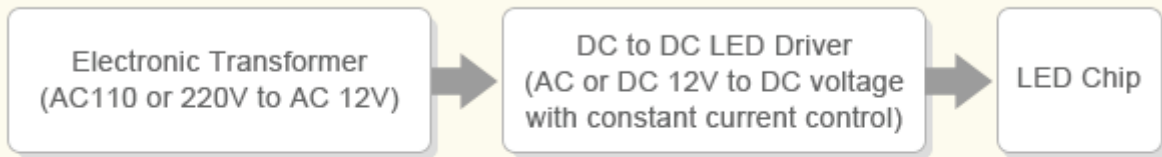


The advantages of the DC-to-DC LED driver in the traditional approach

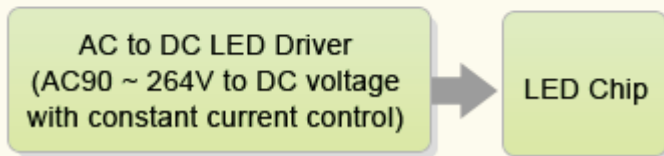
1. Having high compatibility with more than 90% of AC electronic transformers available in the market.
2. Allowing an input voltage 12VAC/DC from an AC electronic transformer, an AC source or a DC source.
3. Keeping the output current nearly constant.
4. Using Japanese capacitors to prolong lifespan.

The advantages of bundling AR111 LED luminaries with the GlacialPower AC-to-DC LED driver

■ Traditional

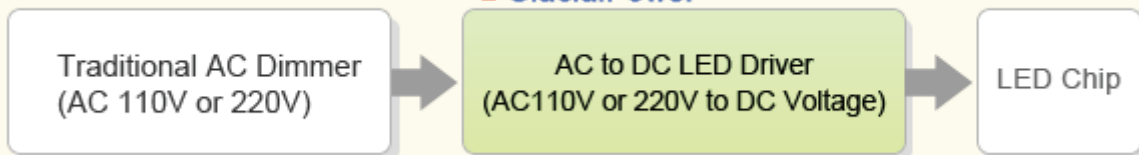


■ GlacialPower



1. The AC-to-DC LED driver can accommodate a universal AC input voltage range 90~264Vac.
2. High efficiency and high reliability benefit from the one-stage power conversion.
3. No compatibility issue is caused and the LED lifetime prolonged by eliminating the need for the AC electronic transformer and the DC-to-DC LED driver in the lighting system.
4. Accredited with the IP67 ingress protection against dust and water, the HS10P and TS10P series can put up with harsh environments.
5. The AC-to-DC LED drivers also comply with the IEC61347 safety standard, go with Power Factor Correction (PFC) function and can work with traditional AC dimmers.
6. Having no drivers in the LED luminaire can reduce the temperature, improve the brightness and prolong the lifetime.

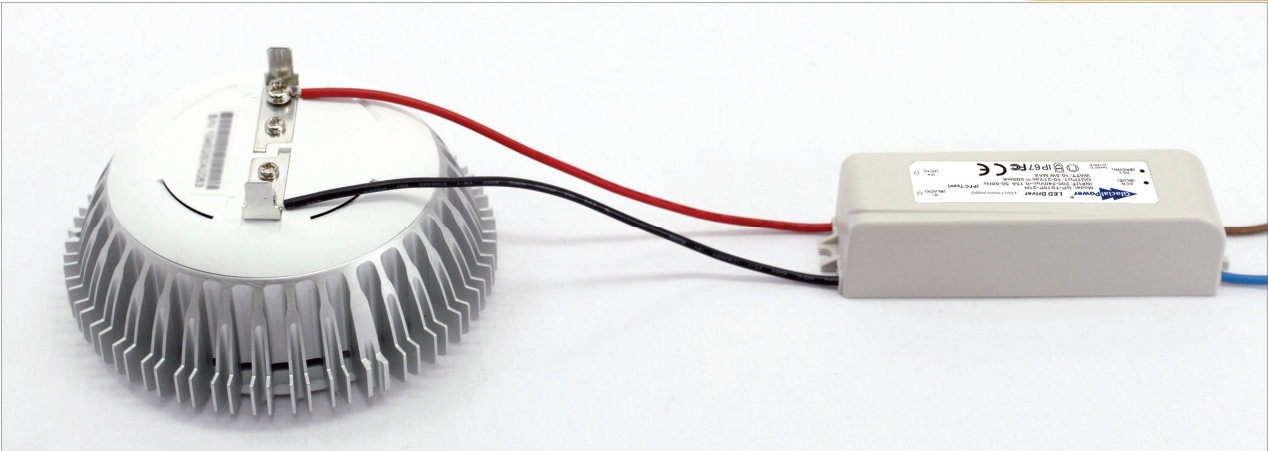
■ GlacialPower



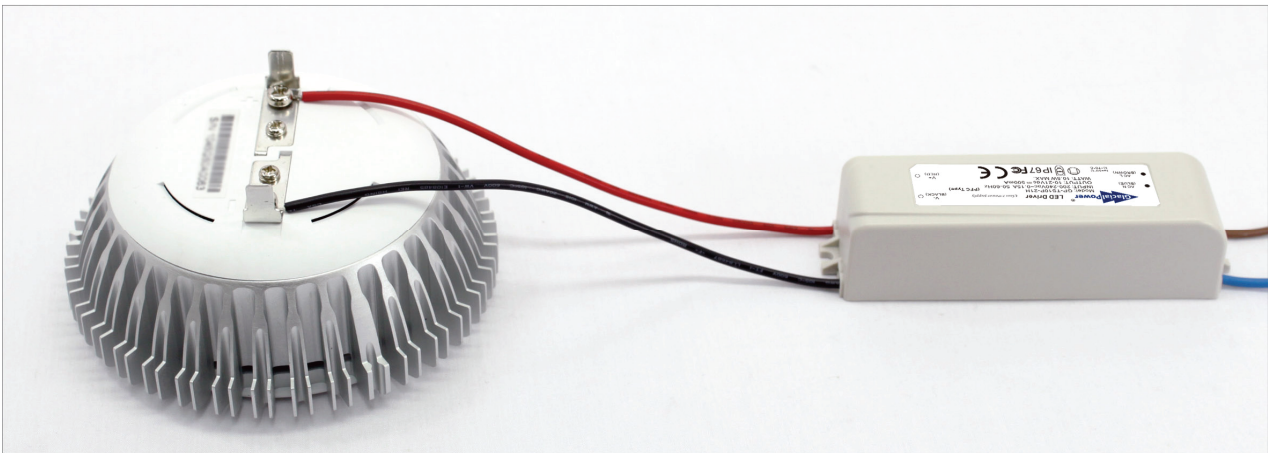
LED	DRIVER
AR111AD with no driver in built	TS10P-30L or TS10P-30H (Triac Dimmable)
AR111AN with no driver in built	HS10P-36C

Installation

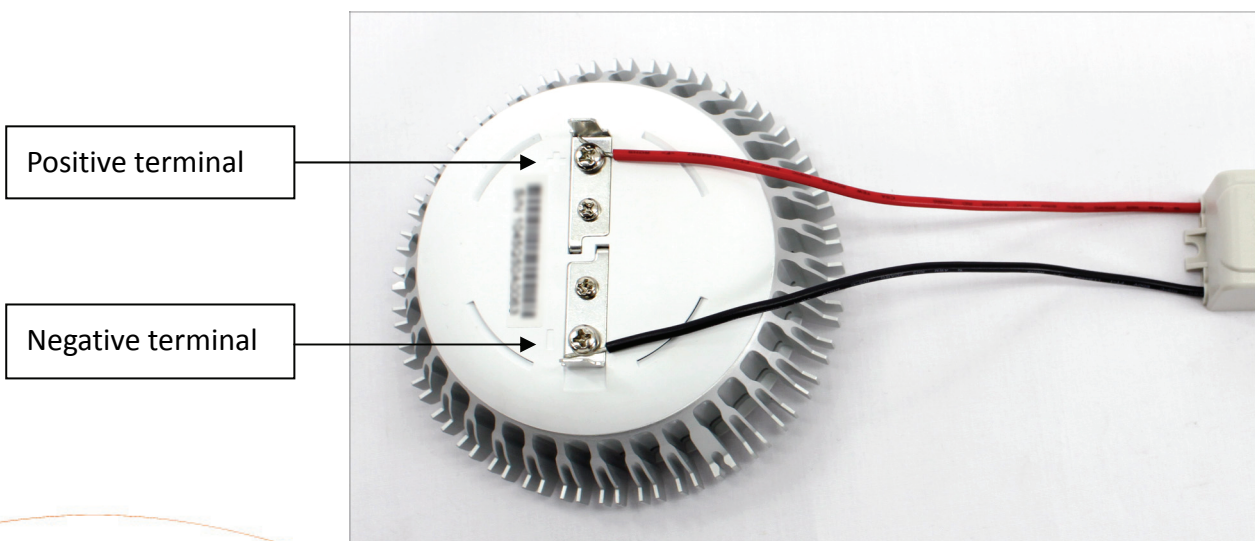
1. GL-AR111AN-WW and GL-AR111AN-CW collaborate with GP-HS10P-36C.



2. GL-AR111D-WW and GL-AR111D-CW collaborate with GP-TS10P-30L or GP-TS10P-30H.

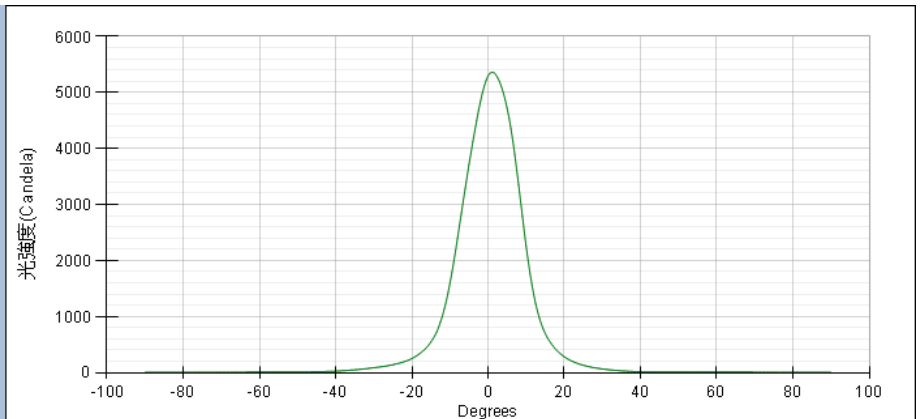
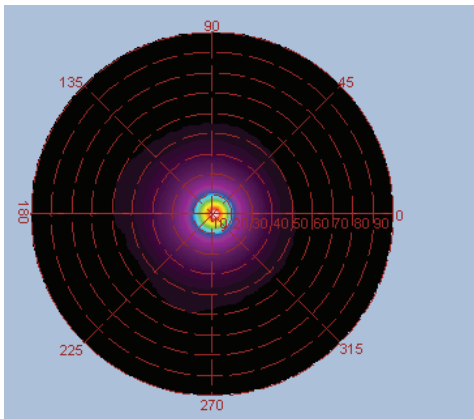
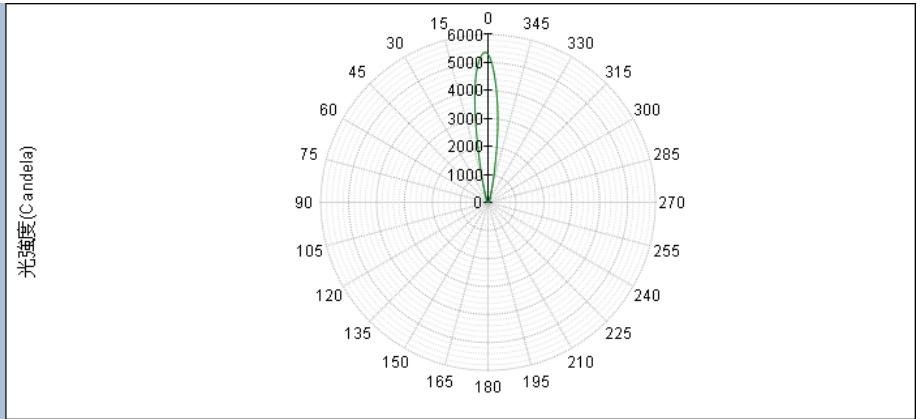
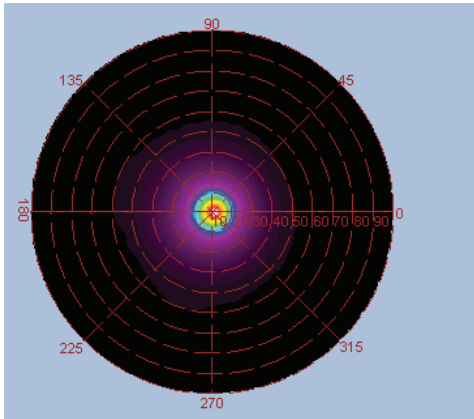


3. Please respectively connect the red (V+) and black (V-) wire to the positive (+) and negative (-) terminal.

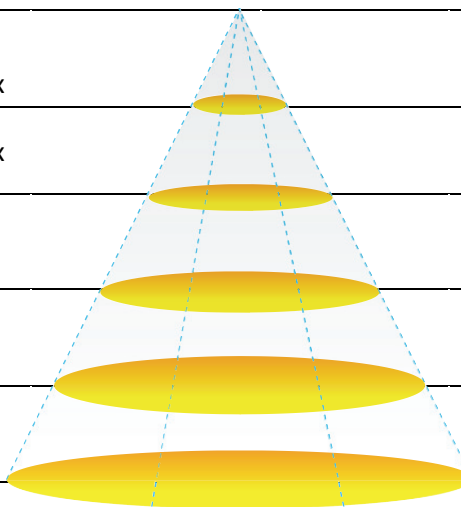


Luminous Intensity Distribution Diagram

GL-AR111-WW / CCT : 3000K

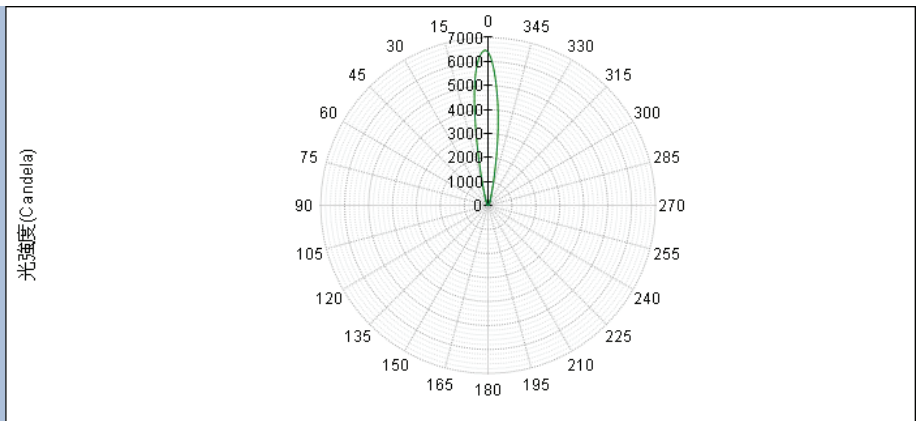
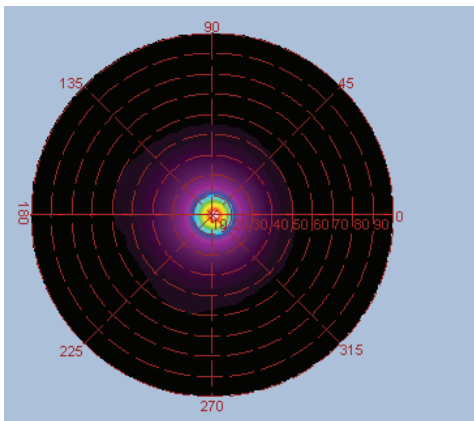
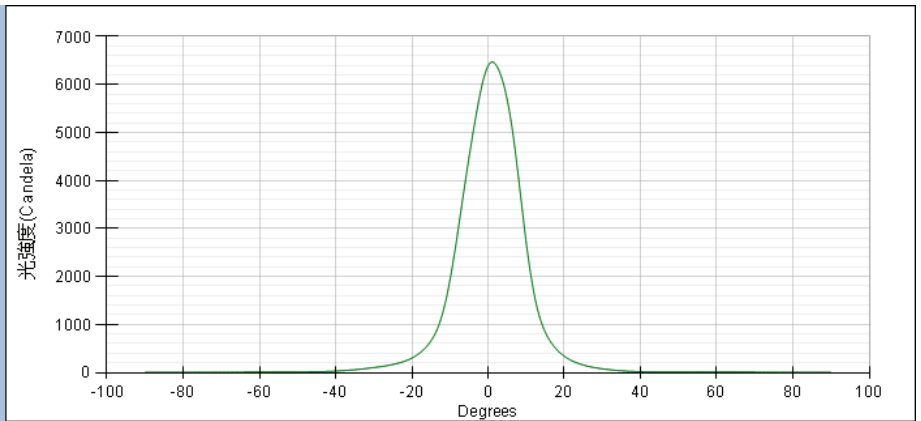
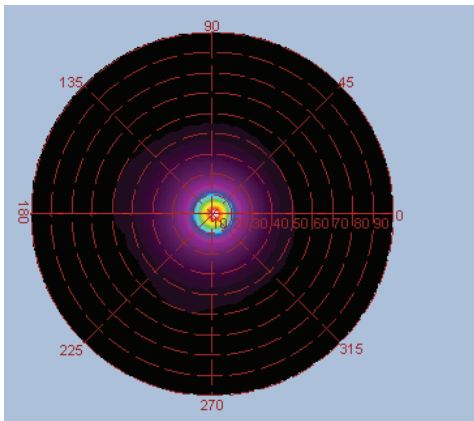


Height	E Avg.	E Max.	Diameter
1.0M	3898 Lx	5453 Lx	30cm
2.0M	975 Lx	1363 Lx	60cm
3.0M	433 Lx	606 Lx	90cm
4.0M	244 Lx	341 Lx	120cm
5.0M	156 Lx	218 Lx	150cm

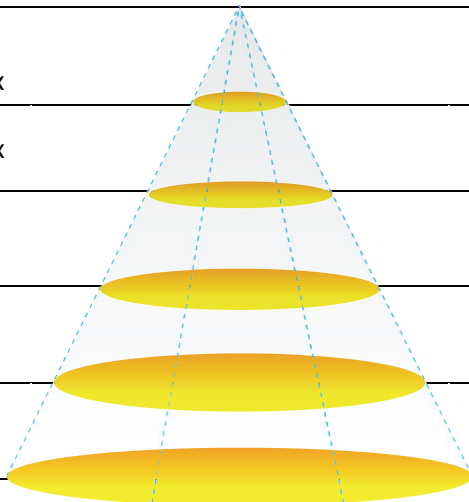


Luminous Intensity Distribution Diagram

GL-AR111-CW / CCT : 6000K



Height	E Avg.	E Max.	Diameter
1.0M	4702 Lx	6578 Lx	30cm
2.0M	1176 Lx	1645 Lx	60cm
3.0M	522 Lx	731 Lx	90cm
4.0M	294 Lx	411 Lx	120cm
5.0M	188 Lx	263 Lx	150cm



Illuminance(lux)

Model No	1M	2M
GL-AR111N-CW GL-AR111D-CW	8,255	2,090
GL-AR111N-WW GL-AR111D-WW	5,090	1,280

Applications

Architectural Lighting / Cabinet Lighting / Commercial Lighting / Spot Lighting / Accent Lighting /
 Hallway Lighting

