ARPL-30W White 3500K

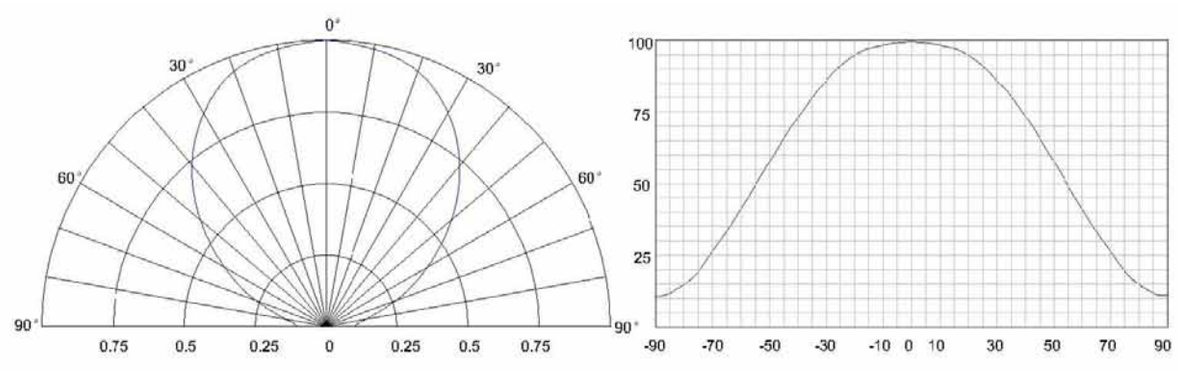
Features

- Long operating life
- Highest flux
- Wide range of colours:2500K-25000K
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection
- Eutectic die bonding
- RoHS compliant

Applications

- Reading lights (car, bus, aircraft)
- LCD Backlights/light Guides
- Fiber optic alternative/ Decorative / Entertainment
- Mini-accent/Up lighters/Down lighters/ Orientation
- Indoor/Outdoor commerclal and Residentlal Architectural
- Cove/Under shelf/Task
- Bollards/Security/Garden
- Portable (flashlight, bicycle)
- Edge-lit signs (Exit, point of sale)
- Automotive Exit (Stop-Tail-Turn,CHMSL, Mirror Side Repeat)
- Traffic signaling / Beacons / RailCrossing and Wayside

Radiation Pattern



Electrical / Optical Characteristics at TA=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	IF=1.6A		14		V
Reverse Current	I_R	VR=5V	--	--	50	uA
50% Power Angle	2θ1/2	IF=1.6A	110	--	140	deg
Luminous Intensity	φ_V	IF=1.6A	1000			lm
Recommend Forward Current	I_F	- -	--	1.6	--	A
Chromaticity	Tc	IF=1.6A	3000	--	3500	k

The sample delivers goods data

Item	Symbol	Condition	Min.	Avg.	Max.	Unit
Luminous Intensity	φ_V	IF=1.6A	--	--	--	lm
50% Power Angle	2θ1/2		--	--	--	deg
Forward Voltage	V_F		--	--	--	v
Chromaticity	Tc		--	--	--	k
White Color Region	--					
ChromaticityCoordinates	X=--			Y=--		

Notes:
1.Tolerance of measurement of forward voltage±0.1V.
2.Tolerance of measurement of peak Wavelength±2.0nm.
3.Tolerance of measurement of luminous intensity±15%.

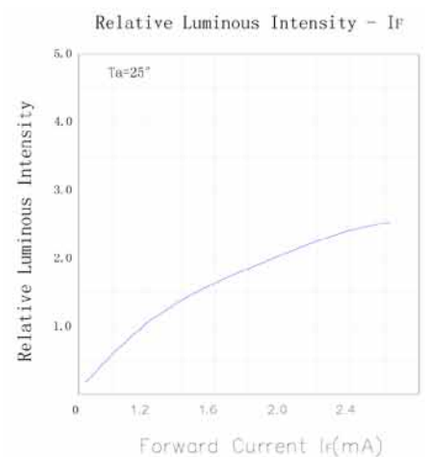
Absolute Maximum Rating

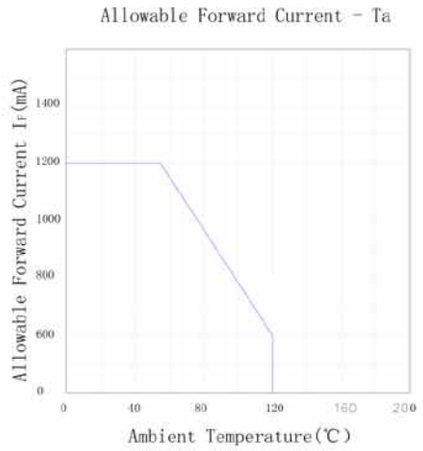
Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	1.6	A
Peak Forward Current*	I_{FP}	1.7	A
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	30	W
Electrostatic discharge	E_{SD}	±4500	V
Operation Temperature	T_{OPR}	-40~+80	°C
Storage Temperature	T_{STG}	-40~+100	°C
Lead Soldering Temperature*	T_{SOL}	Max. 260°C for 3sec Max.	

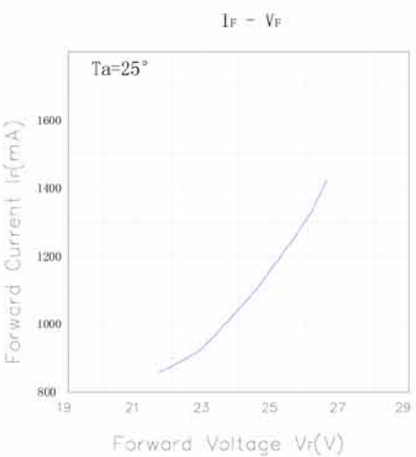
* IFP Conditions: Pulse Width≤10msec duty≤1/10
* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.
*Please don't add or change wires,while LEDS is running
* The LED of this a series can lead the heat reflux of 250 Celsius degrees Han but be free from damage.

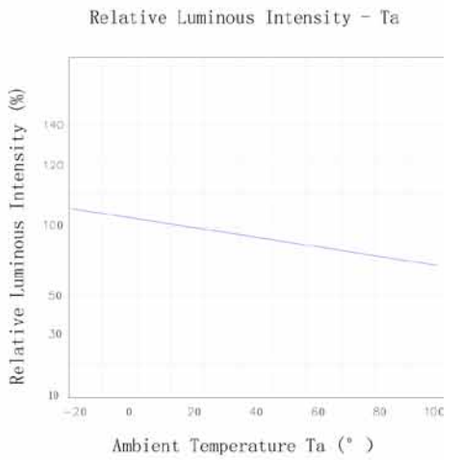
Typical Optical/Electrical Characteristics Curves

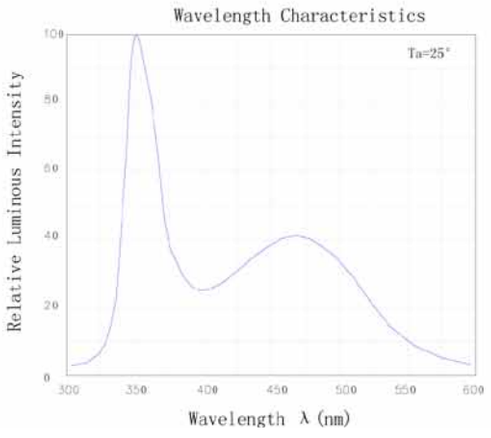
(Ta=25°C Unless Otherwise Noted)



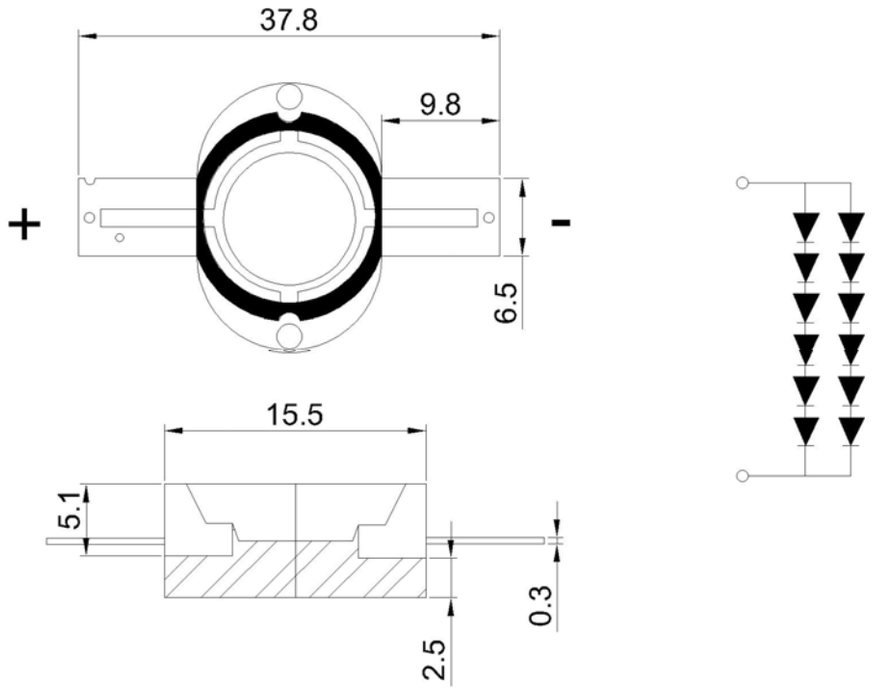








Package Dimensions



Notes:
1. All dimension units are millimeters.
2. All dimension tolerance is ±0.2mm unless otherwise noted.