

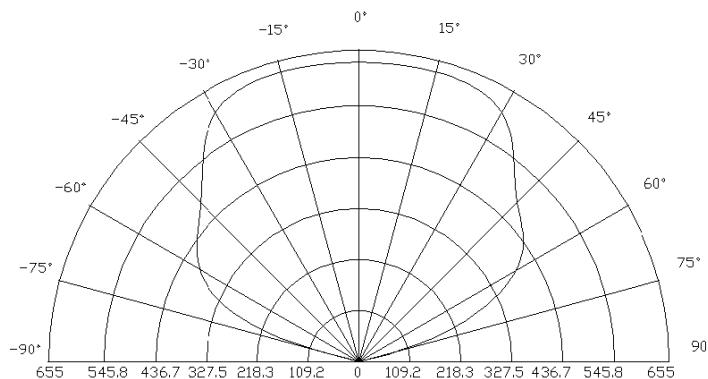
ARPL-Star-1W Blue (14B1N)



FEATURES

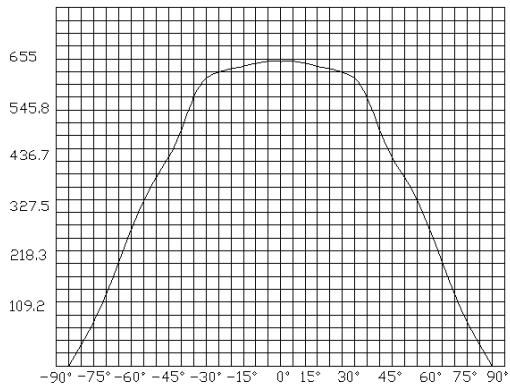
- Long operating life
- Highest flux
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection
- RoHS compliant

RADIATION PATTERN



APPLICATIONS

- Fiber optic alternative/Decorative/entertainment
- Mini-acet/Up lighters/Down lighters/Orientation
- Indoor/Outdoor commercial and Residential Architectural
- Cove/Under shelf/Task
- Bollards/Security/Garden
- Portable(flashlight,bicycle)
- Edge-lit signs (Exit,point of sale)
- Automotive Exit (Stop-Tail-Tum, Chmsl, Mirror Side Repeat)
- Traffic signaling/Beacons/RailCrossing and Wayside



ELECTRICAL / OPTICAL CHARACTERISTICS AT TA=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F (R)	IF=350mA	3.0	--	3.8	V
Reverse Current	I _R	VR=5V	--	--	30	uA
50% Power Angle	2θ1/2	IF=350mA	120		140	deg
Luminous Intensity	φ _V (R)	IF=350mA	18.1	23.5		lm
Recommend Forward Current	I _F	--	--	--	350	mA
Wave Length	λ _d	IF=350mA	460	--	470	nm
Thermal Resistance,Junction to Case	RJP	IF=350mA	--	10	--	°C/w

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	350	mA
Peak Forward Current*	I_{FP}	500	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	1000	mW
Electrostatic discharge	E_{SD}	± 2000	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 appropriate heat dissipation equipment.

* Re-flow, wave peak and soak-stannum soldering etc. is not suitable for this products.

* Suggest to solder it by professional high power LED soldering machine.

* Can use invariable-temperature searing-iron with soldering condition: ≤260 degree less than 3 seconds.

TYPICAL OPTICAL/ELECTRICAL CHARACTERISTICS CURVES

(Ta=25°C Unless Otherwise Noted)

