

Semiconductor EcoLight

Contents

Acriche 4W

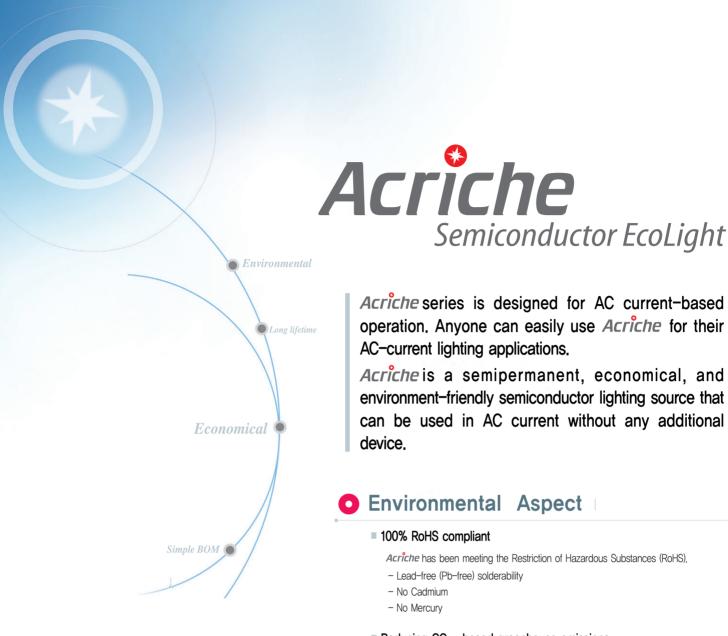
Acriche 8W

Acriche Specialist 10









Acriche has been meeting the Restriction of Hazardous Substances (RoHS),

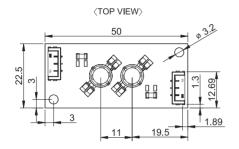
■ Reducing CO₂ – based greenhouse emissions

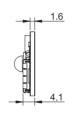
If countries in the world use Acriche, reducing much power consumption, they don't have to build additional nuclear plants, which emit a great amount of CO2.

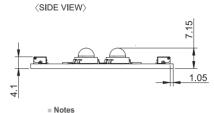






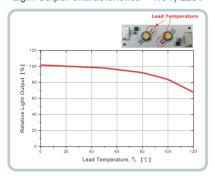




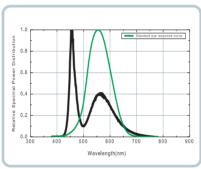


- 1. All dimensions are in millimeters.
- Scale: none
 This drawing without tolerances are for reference only
- 4. Slug of package is connected to anode

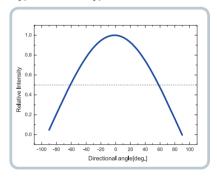
Light Output Characteristics - 110V, 220V







Typical Dome Type Radiation Pattern



Pure White - 110V / 220V

■ Electro-Optical Characteristics at 220V RMS, TA=25°C

Parameter	Value (Typ)	Unit
Luminous Flux (ø _v)	150	lm
Illuminance (∮ 1)	175	lux
Correlated Color Temperature (CCT)	6500	K
CRI (R _a)	70	-
Operating Current (I _{opt})	40/20 (110V/220V)	mA[RMS]
Power Dissipation (P _D)	4	W
Operating Frequency (Freq)	60	Hz
View Angle (2θ 1/2)	117	deg.

Absolute Maximum Ratings

7 tabout the American Canada			
Parameter	Value	Unit	
Operating Voltage (V _{opt} ⑸)	130/260 (110V/220V)	V[RMS]	
Power Dissipation (P _D)	6	W	
Junction Temperature(Tj)	125	°C	
Perating Temperature (Topr)	-30~+85	°C	
Storage Temperature (T _{stg})	-40~+120	°C	
ESD Sensitivity	±3,000V HBM	_	

*Notes : [1] SSC maintains a tolerance of $\pm 10\%$ on flux and power measurements.

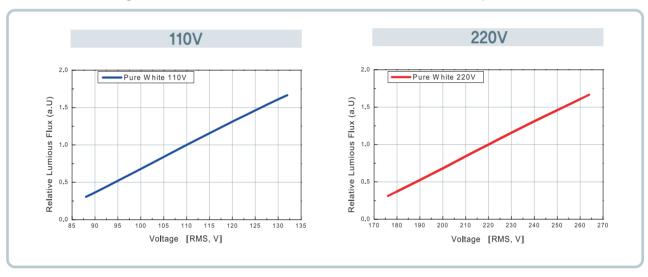
- [2] ϕ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Illuminance is measured at 50cm distance
- [4] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT ?5% tester tolerance
- [5] You can operate Acriche in a maximum permissible voltage, only when the temperature of lead frame is under a 70 degree.



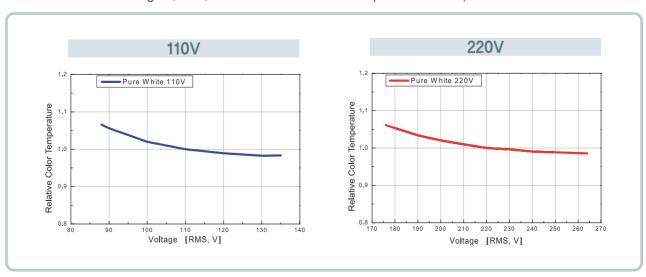


Electrical Characteristics

Voltage [RMS] vs. Normalized Relative Luminous Flux, TA = 25℃

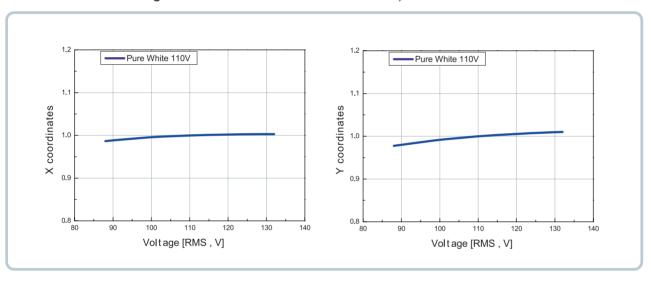


Voltage [RMS] vs. Relative Color Temperature Shift, T_A = 25℃

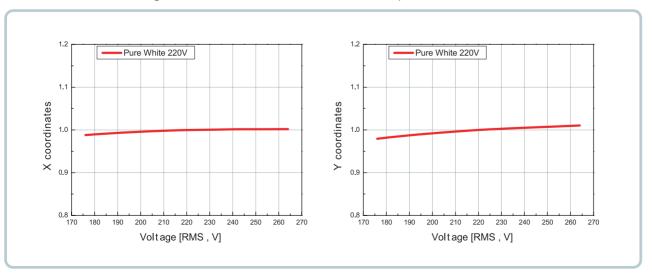




Voltage [RMS] vs. XY Coordinate Shift, $T_A = 25^{\circ}C - 110V$



Voltage [RMS] vs. XY Coordinate Shift, $T_A = 25^{\circ}C - 220V$



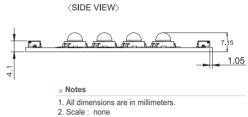






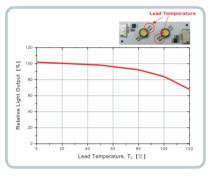
⟨TOP VIEW⟩



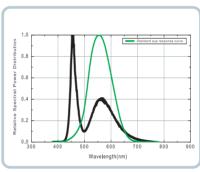


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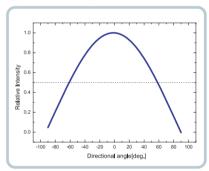
Light Output Characteristics - 110V, 220V







Typical Dome Type Radiation Pattern



Pure White - 110V / 220V

■ Electro-Optical Characteristics at 220V RMS, TA=25°C

Parameter	Value (Typ)	Unit
Luminous Flux (∮ _v)	300	lm
Illuminance (∮ 1)	350	lux
Correlated Color Temperature (CCT)	6500	K
CRI (R _a)	70	-
Operating Current (I _{opt})	80/40 (110V/220V)	mA[RMS]
Power Dissipation (P _D)	8	W
Operating Frequency (Freq)	60	Hz
View Angle (2 <i>θ</i> 1/2)	117	deg.

Absolute Maximum Ratings

Parameter	Value	Unit
Operating Voltage (V _{opt} ⑸)	130/260 (110V/220V)	V[RMS]
Power Dissipation (P _D)	12	W
Junction Temperature(Tj)	125	°C
Perating Temperature (Topr)	-30~+85	°C
Storage Temperature (T _{stg})	-40~+120	°C
ESD Sensitivity	±3,000V HBM	-

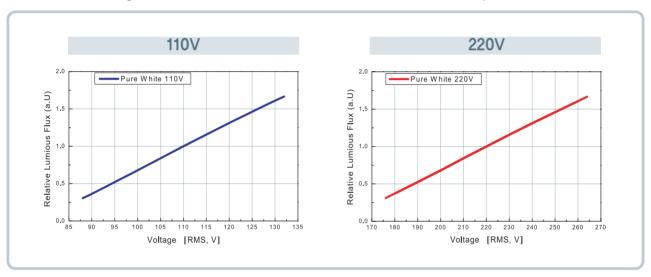
*Notes : [1] SSC maintains a tolerance of $\pm\,10\%$ on flux and power measurements.

- [3] Illuminance is measured at 50cm distance
- [4] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT ?5% tester tolerance
- [5] You can operate Acriche in a maximum permissible voltage, only when the temperature of lead frame is under a 70 degree.

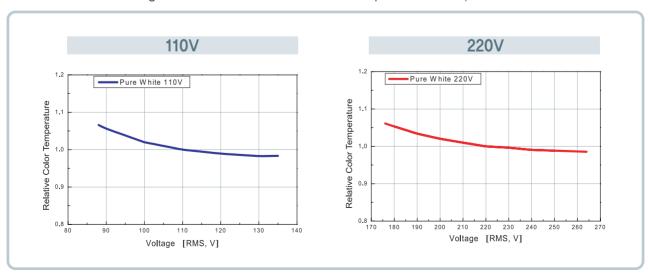


Electrical Characteristics

Voltage [RMS] vs. Normalized Relative Luminous Flux, T_A = 25℃



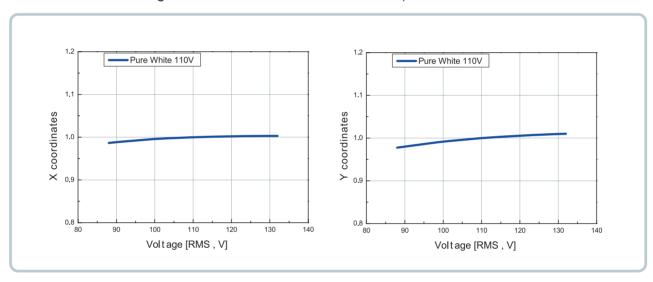
Voltage [RMS] vs. Relative Color Temperature Shift, TA = 25℃



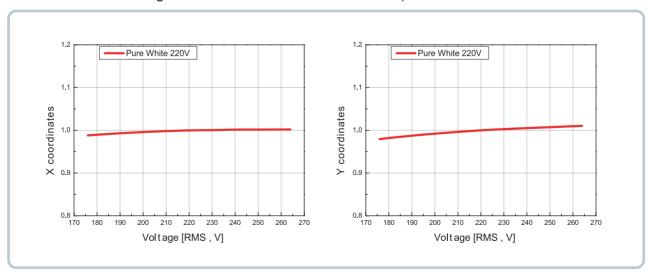




Voltage [RMS] vs. XY Coordinate Shift, $T_A = 25^{\circ}C - 110V$



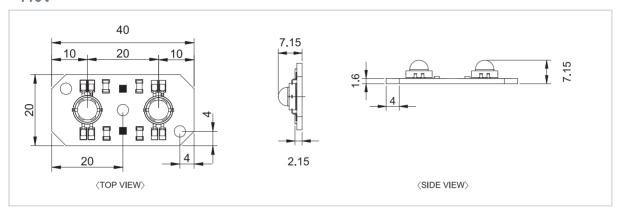
Voltage [RMS] vs. XY Coordinate Shift, $T_A = 25^{\circ}C - 220V$



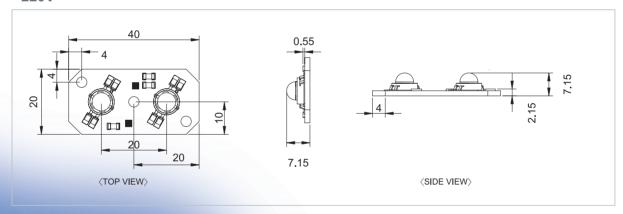




110V



220V



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Features and Advantages

- No connector
 - Miniaturizing lighting applications
 - Maximizing space utility
 - Cost saving product

Acriche Specialist is designed for those who want to use it in various ways.





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