



SnapBrite™ SRC200-65W-50K-120/277

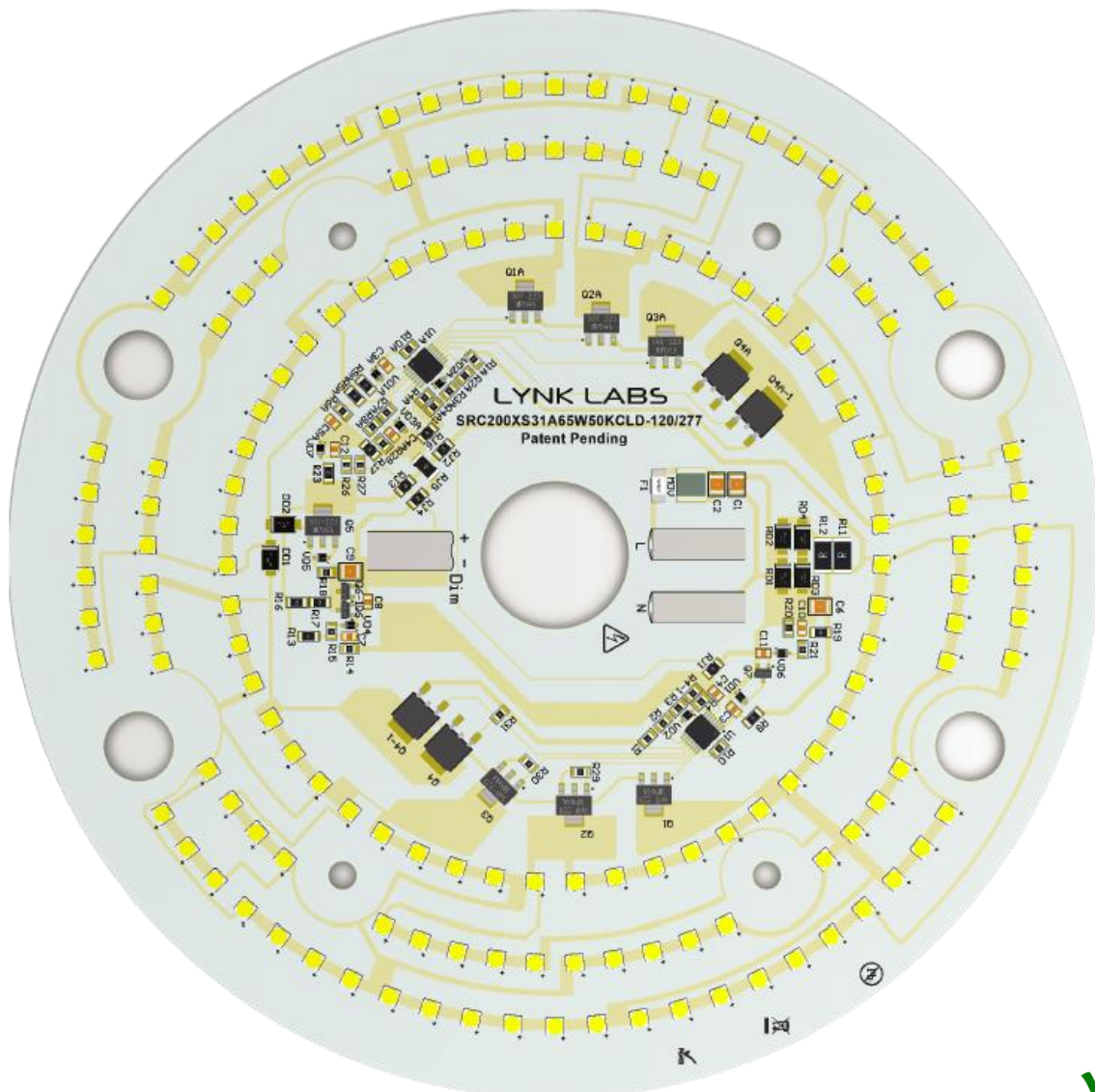
90 - 300Vac Universal Voltage

0-10V dimmable Low THD

Direct Connect - AC LED MODULE

200mm dia 65 Watt 7600 lm

Technical Data Sheet



Direct Connect AC LED lighting technology

SnapBrite™ SRC200-65W-50K-120/277



Description

SnapBrite high voltage AC LED modules are fast, easy and reliable LED light sources for lighting OEMs in need of LED solutions that offer direct AC line voltage connectivity.

Lynk's patented AC LED technology eliminates the requirement for an expensive, bulky and failure prone AC – DC power supply or driver. Delivering efficiency, reliability and a high power factor, SnapBrite modules can be used by lighting manufacturers in many types of fixture as an effective replacement for energy hungry incandescent or CFL lamps. Additionally, the modules will dim with 0-10V dimming systems .

Lynk Low THD Technology provides under 20% ATHD and a power factor of better than 0.97 for applications demanding minimal EMC disturbance.

Universal voltage means that this light engine can be connected directly to any voltage source from 90V through 300V AC.

Look for the Lynk Labs name or this private label mark to ensure you are always backed by Lynk Labs high quality AC LED technology, IP, and reliability. Lynk Labs - Your AC LED Experts!



Features

- Universal Voltage 90V -300V
- Direct Connect - No Drivers/PSU's
- Lower Cost - Higher Reliability AC LED Module
- 0-10V Dimmable
- High Efficiency
- High Power Factor >0.97
- Low THD <20%
- Significant Energy Savings
- Long Operating Life
- Reliable, Fast & Easy

Applications

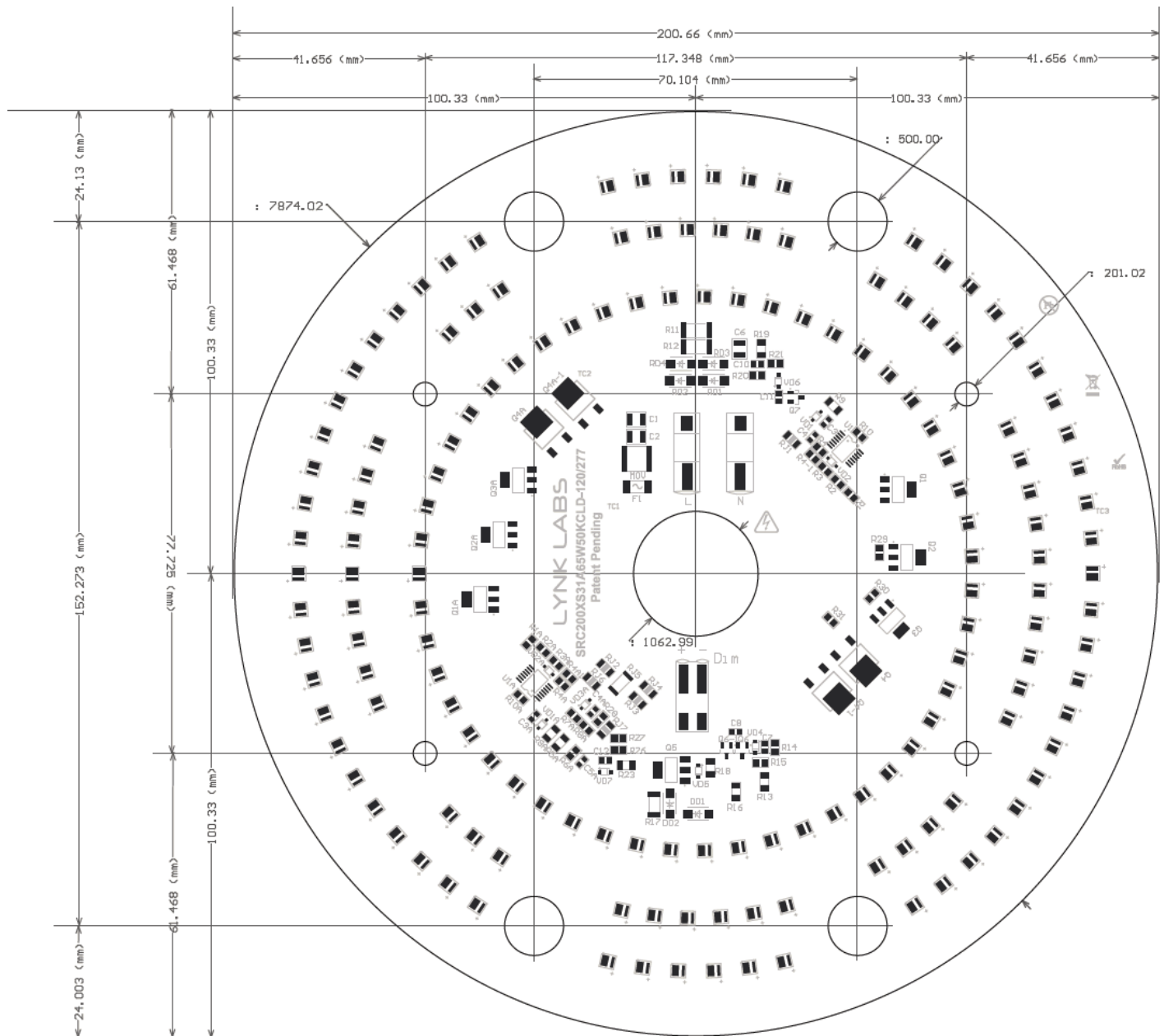
- Flush mounts,
- Down Lighting
- Ceiling Fans,
- Indoor/Outdoor General line voltage Illumination
- Ideal for commercial, hospitality and residential

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3. Mechanical Dimensions



Notes :

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.05\text{mm}$ unless otherwise noted.



4. Electrical & Optical Characteristics

ITEM	SYMBOL	CONDITION	UNIT	MIN.	120	277	MAX.
Universal Voltage	V _f	connected to line	V _{rms}	100	120	220	277
Viewing Angle	2θ _{1/2}		deg		120	120	120
Operating/Case Temperature	T _o /T _c	I _f =570 mA/120V	°C		70	70	70
Typical Operating Power	W _T	I _f =570 mA/120V	W		68	67	64
Luminous Flux (5000K)	Φ		lm		8,748	8,580	7,627
Power Factor		I _f =570 mA/120V			>.97	>.97	
Total Harmonic Distortion	ATHD		%		12	11	21
Luminous Efficacy (5000K)	η _v		lm/w		128	128	119

*Measurement Uncertainty of the Luminous Flux: ± 10%

*Values given are for specified drive current at 25°C case temperature

Module Variants

MODEL NUMBER	CCT	CRI	VAC	POWER	LUMEN	lm/W
SRC2009S81A65W40KXSD120277	4000K	70	277	65	7483	115
SRC2009S81A65W50KXSD120277	5000K	70	277	65	7627	119

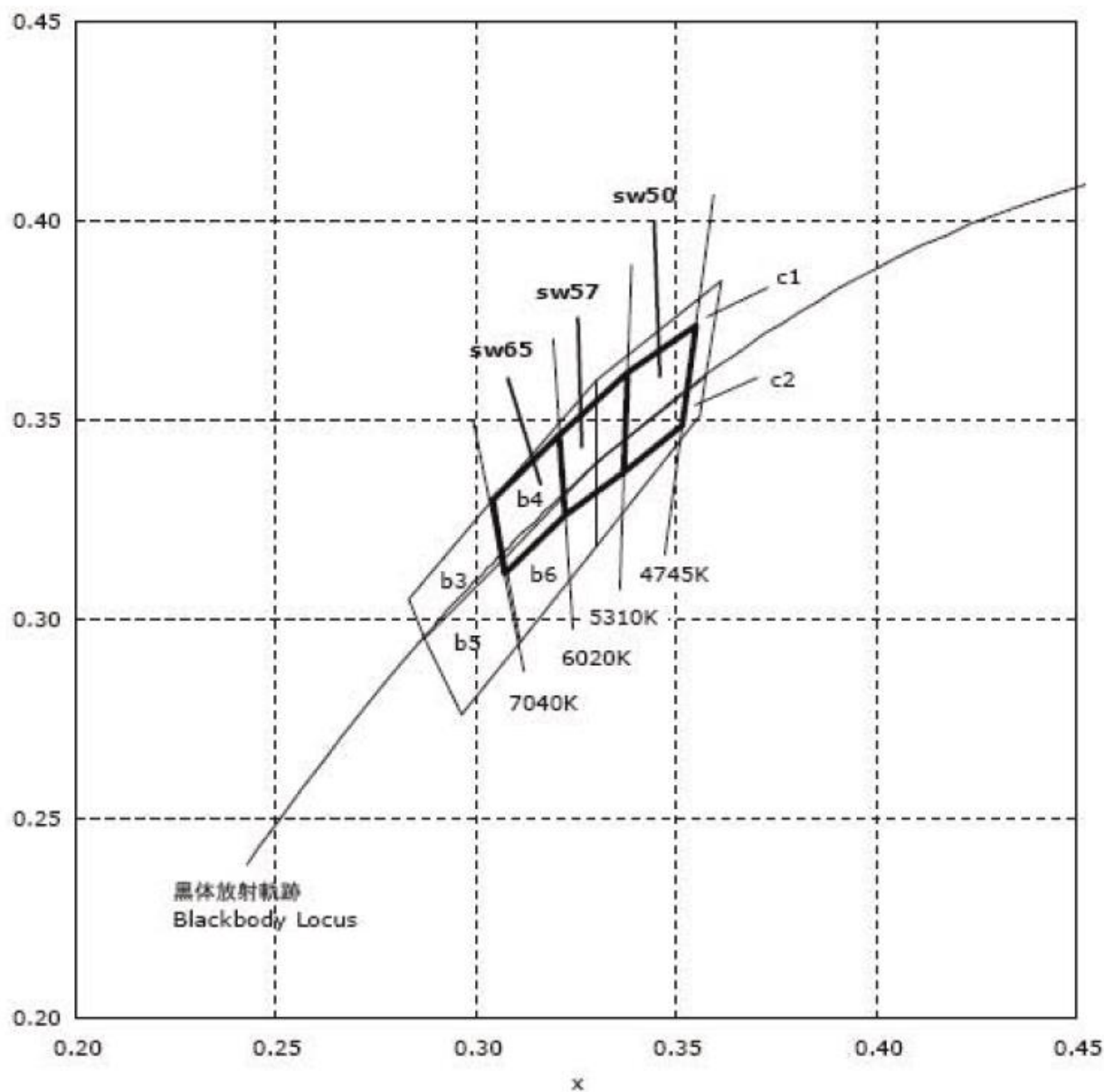
Other CCTs may be Available to Special Order

5. Absolute Maximum Ratings (@ Ta=25°C)

ITEM	SYMBOL	ABSOLUTE MAXIMUM RATING	UNIT
Power Dissipation	P _d	72	W
A.C. Current	I _f	600	mA _{rms}
AC Voltage	V _f	300	V
Operating Temperature	T _o	-25 ~ +90	°C
Storage Temperature	T _s	-40 ~ +100	°C
Soldering Temperature(Reflow)	T _{sld}	N/A	°C
Soldering Temperature(Hand)	T _{sld}	370	°C

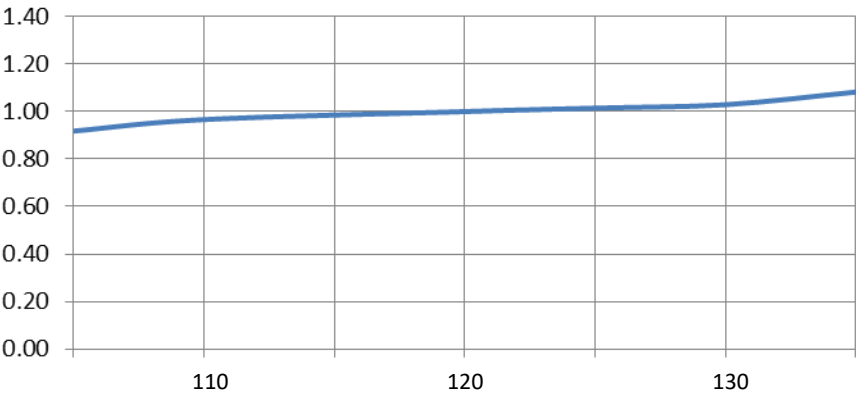


6. CIE Chromaticity Coordinates



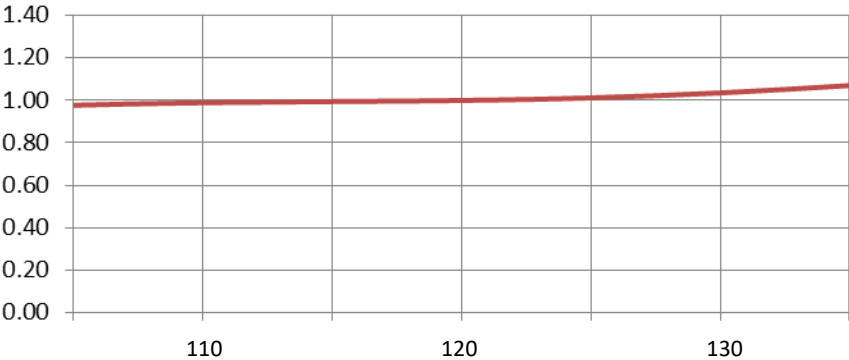
7. Typical Electrical & Optical Characteristic Curves

Relative Power vs Voltage

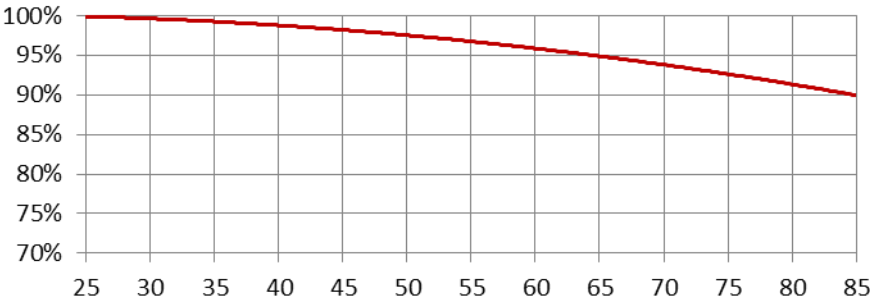


Ta=25 °C

Relative Luminous Flux vs. Voltage

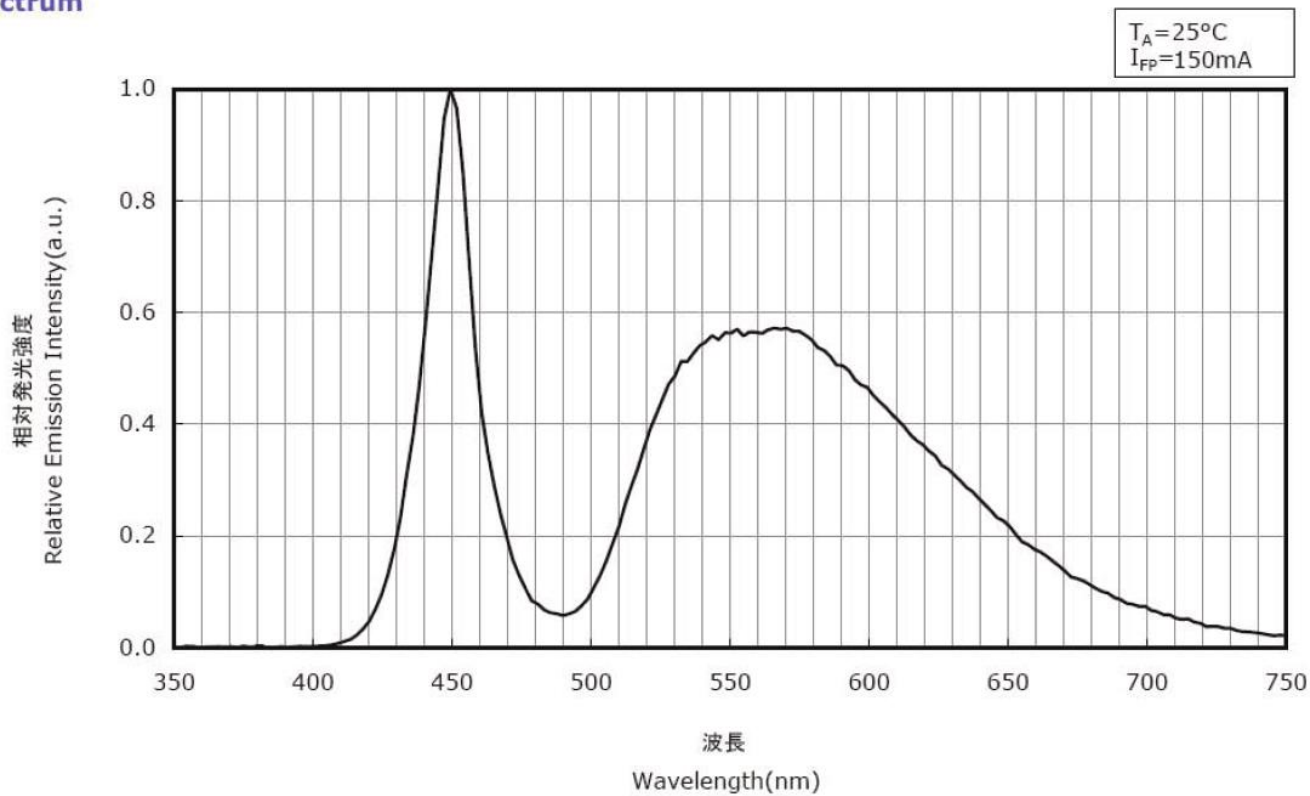


Lumen Thermal de-rating curve

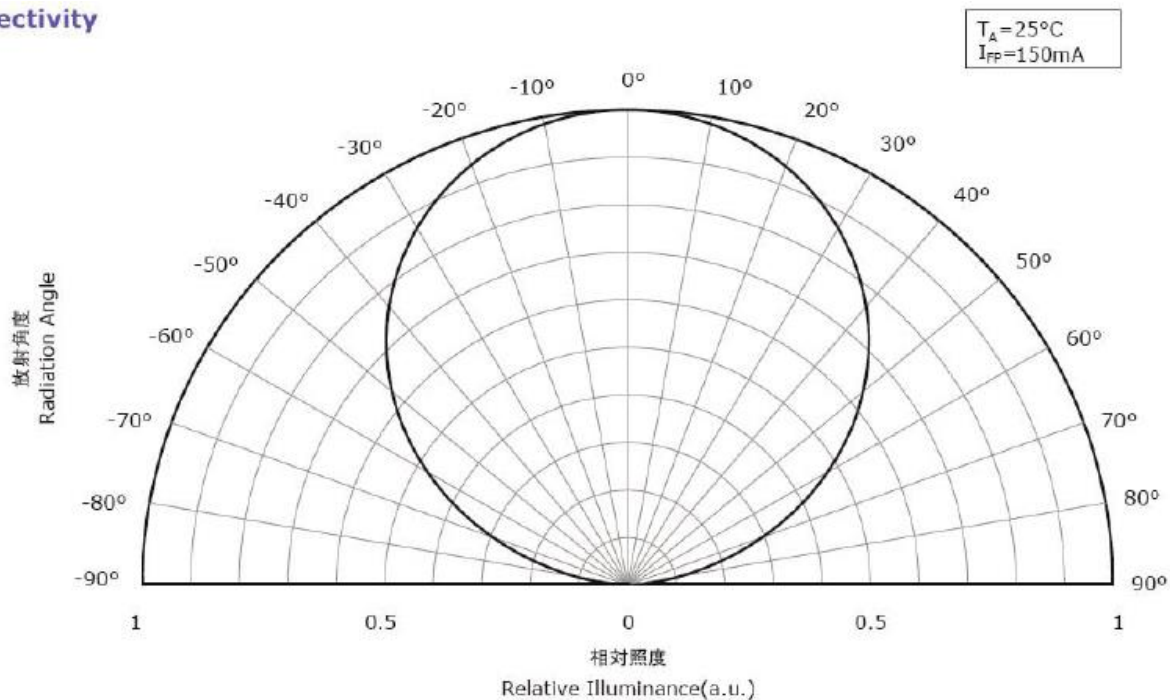




Spectrum



Directivity





8.Part Number Identification

Part Number																							
Product Code	Shape	Dimension/Diameter (mm)				Internal Codes				Module Power			aTHD	CCT (XXK) Warm on Dim (XYWD)			Connection Type	CRI		Input Voltage		Miscellaneous	
S	R	C	2	0	0	9	S	8	1	A	6	5	W	L	5	0	K	X	S	D	120	277	

Model Number																		
Product Code	Shape	Dimension/Diameter				Module Power			aTHD		CCT (XXK) Warm on Dim (XYWD)		Connection Type	CRI		Input Voltage		Miscellaneous
S	R	C	2	0	0		6	5	W	L		5	0	K	X	S	120 / 277	

Product Code	
S	= SnapBrite™
T	= Tesla™
G	= GeoLite™
B	= BriteDriver®

Shape	
R	= Round
S	= Square
T	= Star
L	= Linear

Dimension/Diameter	
L	= X X X
W	= Y Y Y
D	= Z Z Z

Module Power	
Q	= 0.25W
H	= 0.5W
T	= 0.75W
R	= Decimal Point

aTHD	
L	= < 20%
H	= ≥ 20%

CCT/WOD				
2	2	K		= 2200K
2	7	K		= 2700K
3	0	K		= 3000K
3	5	K		= 3500K
4	0	K		= 4000K
5	0	K		= 5000K
5	7	K		= 5700K
3	2	W	D	= ~ 2700K To 2200K Warm on Dim
4	2	W	D	= ~ 3000K To 2200K Warm on Dim
5	2	W	D	= ~ 3500K To 2200K Warm on Dim

Connection Type	
C	= Poke-In Connector
I	= Insulation Displacement Connector
O	= Connector + Solder Pads
W	= Wire "Pigtails"
X	= Solder Pads

CRI	
L	= < 80 CRI
S	= ≥ 80 CRI
H	= ≥ 90 CRI

Input Voltage	
12V	= 12 VAC, Magnetic or Electronic Transformer Source
12E	= 12 VAC, Electronic Transformer Source Only
120V	= 120 VAC
120R	= Rectified 120 VAC
230V	= 230 VAC



9. Packaging

LED Modules will be packaged in trays for primary protection.

According to the total delivery amount, cardboard boxes will be used to protect the Trays of LED Modules from mechanical shocks during transportation.

The boxes are not water resistant and therefore must be kept away from water and moisture.

10. Reliability and Average Lumen Maintenance

Before releasing new products the manufacturer puts a representative product sample set through an entire suite of qualification tests, including the most stressful test for high power LEDs, the Wet High-Temperature Operating Life (WHTOL) test at 85°C/85%RH for 1000 hours at the specified operating current.

LED lifetime has been extrapolated based on the accumulated operating and accelerated aging data. Based on this data, the manufacturer projects that the LED products will deliver, on average, 70% lumen maintenance at 50,000 hours of operation at the specified operating current, provided that the case temperature is maintained at or below 80°C.

11. Moisture Sensitivity

The module can operate for up to 1000hrs at 85 °C and 65% Relative Humidity.

It is not designed for operation in wet conditions without an additional conformal coating which must be approved and supplied by the manufacturer during the module build process or warranty will be voided