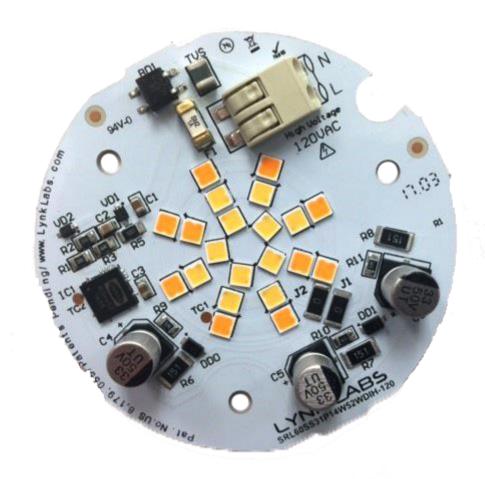




SnapBrite® SRL60-14W- 120

120Vac Direct Connect –AC LED MODULE
Warm-on-Dim or Single CCT
California Title 24 compliant
Flicker Free Triac Dimmable
60mm (2.36 in.) dia. 14 Watt 1095 Im

Technical Data Sheet









Direct Connect AC LED lighting technology

SnapBrite® SRL60-14W-120



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 many popular leading and trailing edge phase cut dimmers.

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

Unlike other AC LED light sources, these SnapBrite modules offer a very unique but optional Warm-On-Dim feature that can change CCT from cooler to warmer as the dimming level changes. This mimics the way a traditional light bulb or halogen lamp becomes warmer to look at as the light level reduces. WOD is a great feature for hospitality and residential applications.

Meets California's Title 24 specification which requires that the flicker % at 200Hz remains below 30% at full power and at 20% dimming. This effectively eliminates perceptible flicker.

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

- 120V Direct Connect No Drivers/PSU's
- Lower Cost Higher
 Reliability AC LED Module
- ➤ California Title 24 Compliant
- > Triac Dimmable
- Warm-on-Dim capable
- Works with most existing AC Dimmers
- High Efficiency
- ➤ High Power Factor >0.97
- ➤ Low THD <20%
- Significant Energy Savings
- Long Operating Life
- > Reliable, Fast & Easy

Applications

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





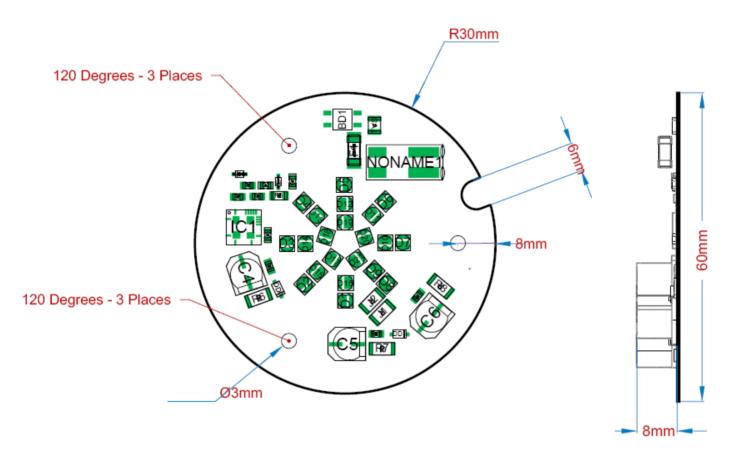
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3. Mechanical Dimensions



Notes:

- 1. All dimensions are in millimeters.
- 2. Tolerance is ±0.05mm unless otherwise noted.







4. Electrical & Optical Characteristics

ITEM	SYMBOL	CONDITION	UNIT	MIN.	Тур.	MAX.				
Drive Voltage	Vf	conected to line	Vrms	100	120	132				
Viewing Angle	2 θ ½		deg		120					
Case Temperature	Тс	If=120 mA	°C		70	90				
Life at Nominal Case Temp		Tc=70	kHrs		50					
Typical Operating Power	W _T	If=120 mA	W		14					
Luminous Flux (3000K)	Ф		lm		1,093					
Power Factor		lf=120mA			>.97					
Total Harmonic Distortion	ATHD		%		15					
Luminous Efficacy (3000K)	$\eta_{\rm v}$		lm/w		77					
Flicker% at Full Power	200H	200Hz Step Filter			<1%	_				
Flicker% at 20% Dimming	200H	z Step Filter	%		<3%					

^{*}Measurement Uncertainty of the Luminous Flux: ± 10%

Module Variants

MODEL NUMBER	ССТ	CRI	VAC	POWER	LUMEN	lm/W
SRL60SS31A14W30K1H-120	3000K	90	120	14.2	1095	77
SRL60SS31A14W52WD1H-120	1800-3700K	90	120	14.4	1060	74

Other CCTs may be Available to Special Order

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

ITEM	SYMBOL	ABSOLUTE MAXIMUM RATING	UNIT
Power Dissipation	Pd	17	W
A.C. Current	If	140	mArms
AC Voltage	Vf	132	V
Operatiing Temperature	То	-25 ~ +70	°C
Storage Temperature	Ts	-40 ~ + 100	°C
Soldering Temp (Hand)	Tsld	370	°C

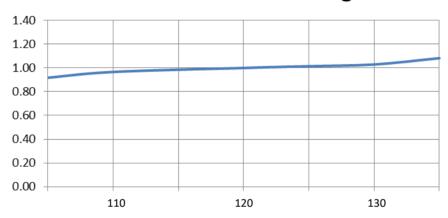
^{*}Values given are for specified drive current at 25°C case temperature





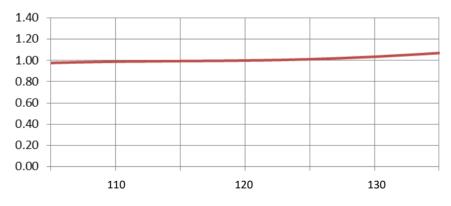
7. Typical Electrical & Optical Characteristic Curves

Relative Power vs Voltage

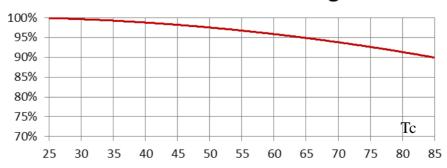


Ta=25°C

Relative Luminous Flux vs. Voltage

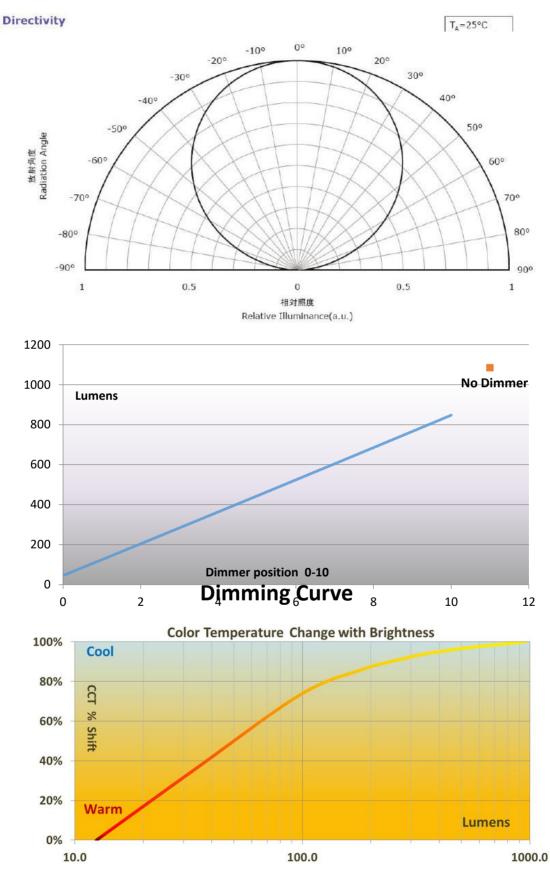


Lumen Thermal de-rating curve













8.Part Number Identification

	Part Number																				
Product Code	Shape	Di		on/Diar mm)	meter		In	terna	ıl Cod	es		Module Power		атнD	Warm	(XXK) on D (WD)		Connection Type	CRI	Input Voltage	Miscellaneous
S	R	ı	6	0		s	S	3	1	Α	1	4	w	ı	3	0	К	ı	н	120	

	Model Number											
Product Code	Shape	Dimension/Diameter		Module Power	аТНD		CCT (XXK) Warm on Dim (XYWD)	Connection Type	CRI		Input Voltage	Miscellaneous
S	R	1 6 0		1 4 W	ī		3 0 к	ī	Н		120	

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

	Shape							
R	ш	Round						
S	=	Square						
Т	=	Star						
L	=	Linear						

Dimension/Diameter								
L	II	= x x						
w	=	Υ	Υ	Υ				
D	=	Z	Z	Z				

Module Power							
σ	II	0.25W					
Н	=	0.5W					
Т	=	0.75W					
R	=	Decimal Point					

aTHD							
L	=	< 20%					
Н	=	≥ 20%					

CRI
= < 80 CRI
= ≥ 80 CRI
= ≥ 90 CRI

	CCT/WOD								
2	2	К		=	2200K				
2	7	К		=	2700K				
3	0	К		=	3000К				
3	5	К		=	3500K				
4	0	К		=	4000K				
5	0	К		=	5000K				
5	7	К		=	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			
С	ı	Poke-In Connector	
ı	=	Insullation Displacement Connector	
0	=	Connector + Solder Pads	
w	=	Wire "Pigtail"	
Х	=	Solder Pads	

Input Voltage			
12V	II	12 VAC, Magnetic or Electronic Transformer Sourse	
12E	=	12 VAC, Electronic Transformer Sourse Only	
120V	=	120 VAC	
120R	=	Rectified 120 VAC	
230V	=	230.VΔC	





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 warrantee will be voided