

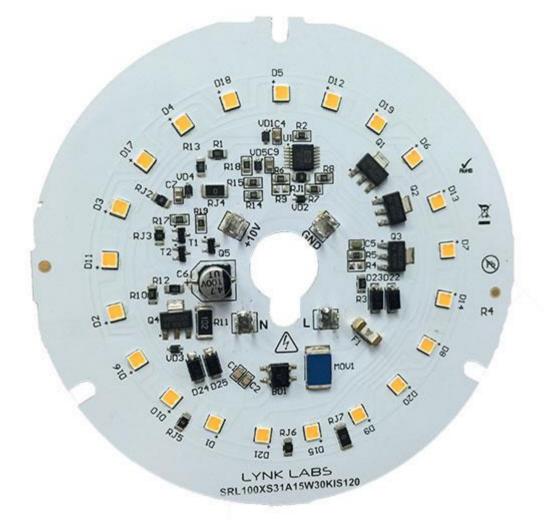
Green lighting technologies

SnapBrite[™] SRL100-15W- 120

120Vac Direct Connect - AC LED MODULE 0-10V dimming California Title 24 compliant

100mm dia 14 Watt 1140 Im

Technical Data Sheet





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Direct Connect AC LED lighting technology

SnapBrite[™]SRL100-14W-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 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.

California's Title 24 specification 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
- 0-10V Dimmable
- High Efficiency
- ➢ High Power Factor >0.97
- Low THD <20%</p>
- California Title 24 Flicker Compliant
- 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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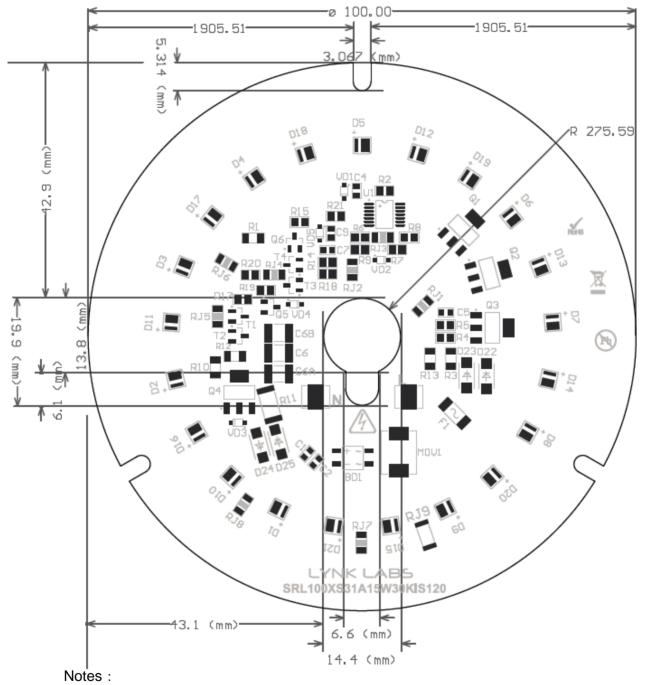


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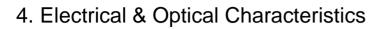


3. Mechanical Dimensions



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





ITEM	SYMBOL	CONDITION	UNIT	MIN.	120	MAX.
Dual Drive Voltage	Vf	conected to line	Vrms	100	120	132
Viewing Angle	2 θ ½			120		
Operating/Case Temperature	To/Tc	lf=120 mA	°C		70	90
Typical Operating Power	W _T	lf=120 mA	W		14	
Luminous Flux (WD52)	Φ		lm		1,140	
Total Harmonic Distortion	ATHD		%		<20%	
Luminous Efficacy (WD52)	η _ν		lm/w		84	
Flicker% at Full Power	200⊢	Iz Step Filter	%		<3%	
Flicker% at 20% Dimming	200H	Iz Step Filter	%		<23%	

*Measurement Uncertainty of the Luminous Flux: \pm 10%

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

Module Variants

MODEL NUMBER	ССТ	CRI	VAC	POWER	LUMEN	lm/W
SRL100XS31A15W30KIS120	3000K	90	120	14	1140	84

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	lf	140	mArms
AC Voltage	Vf	132	V
Operatiing Temperature	То	-25 ~ +90	°C
Storage Temperature	Ts	-40 ~ +100	°C
Soldering Temperature(Reflow)	Tsld	N/A	°C
Soldering Temperature(Hand)	Tsld	370	°C

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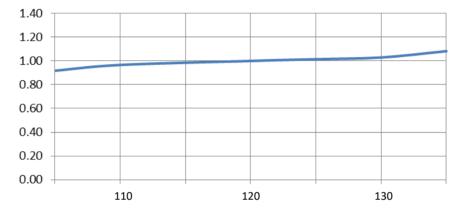
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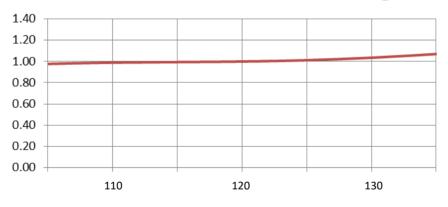
7. Typical Electrical & Optical Characteristic Curves



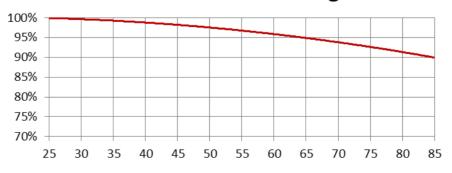
Relative Power vs Voltage

Ta=25°C

Relative Luminous Flux vs. Voltage



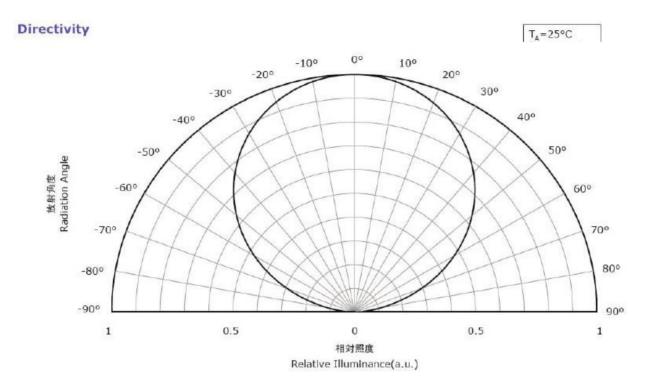
Lumen Thermal de-rating curve



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8.Part Number Identification

Part Number															ber													
Product Code	Shape	Dimension/Diameter (mm)							Internal Codes					Module Power			атно	CCT (XXK) Warm on Dim (XYWD)			Connection Type	CRI	Input V			/oltage	Miscellaneous	
S	R	L	1	0	0				х	S	3	1	А		1	4	w	L	3	0	К	I	н		12	0		
													Mod	el Nu	mber	r											1	
Product Code	Shape	Dimension/Diameter										요 문 CCT Warm			Varm	CCT (XXK) arm on Dim (XYWD)			Ir	Input Voltage								
S	R	L	1	0	0						1	4	w	L		3	0	к		I	н	120					•	
	Proc	duct (ode		1			Sha	ape			Dir	nens	sion/Diameter Module Power aTHD														
S		Snap		тм			2		Rour	nd		L	=	X									%					
Т	=	Tesla	™]	:	5	=	Squa	re		w	=							≥ 20	%							
G		Geol			1	-	г	=	Star			D	=	z	Z	Z												
В	=	Brite	Drive	er®			L	=	Linea	ar								R	=	Deci	mal Po	oint						
					CCT/	'w	OD						1	Connection Type CRI								CRI						
2	2	к			2200									С	=	Pok	e-In C			78-			1	L	=	-	CRI	
2	7	К		=	2700	Ж								I	=	Insu	llatio	n Dis	place	emen	t Conn	ector]	S	=	≥ 80	CRI	
3	0	к		=	3000									0			necto		older	Pads	6			н	=	≥ 90	CRI	
3	5	ĸ		=	3500	-							4	w		Wire "Pigtail"												
4	0	K		=	4000								-	X	=	Sold	ler Pa	ds]					
5	0	к к		=	5000 5700								-	Innut Voltooo								1						
3	2	w	D	=			ΚΤο	220	оок и	Varm	on D)im		Input Voltage 12V = 12 VAC, Magnetic or Electronic Transformer Sourse														
4	2	w	D	 ~ 2700K To 2200K Warm on Dim ~ 3000K To 2200K Warm on Dim 										12E = 12 VRG Highert of Electronic Transformer Source Only 12E = 12 VAC, Electronic Transformer Source Only							-							
5	2	W D = ~ 3500K To 2200K Warm on Dim										120V = 120 VAC]										
													120R = Rectified 120 VAC															
				230V = 230 VAC																J								

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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 $^\circ\text{C}$ 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