



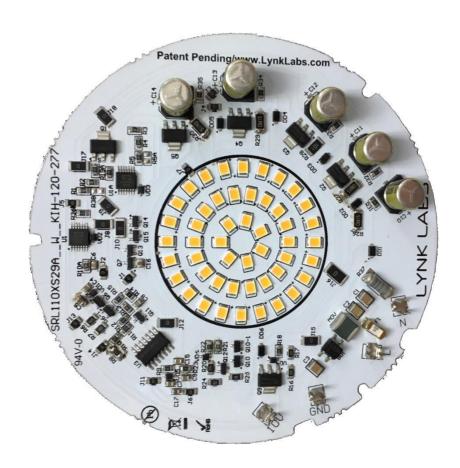
SnapBrite® UV DoB

SRL100-20W- 120/277

90 – 300 Vac Universal Voltage California Title 24 compliant 0-10V dimmable / Low THD / Flicker Free

110mm dia / 20 Watt / 2000 lm

Technical Data Sheet









Direct Connect AC LED lighting technology

SnapBrite[®] SR110XS29A20WLXXKIH120-277



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 flicker free, low THD efficiency, reliability and a high power factor, Tesla ACOB 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.

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%
- 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





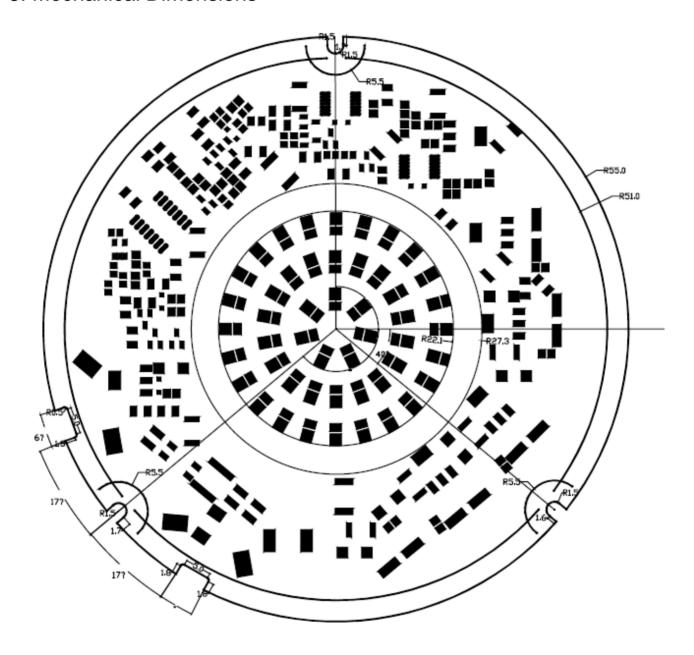
Contents:

1.	Description, Features and Applications	.2
2.	Contents	3
3.	Mechanical Dimensions	.4
4.	Electrical & Optical Characteristics	5
5.	Absolute Maximum Ratings	5
6.	C.I.E. Chromaticity Coordinates	.6
7.	Typical Electrical & Optical Characteristic Curves	.7
8.	Part Number Identification	8
9.	Packaging	9
10.	Reliability and Average Lumen Maintenance	.9
11.	Moisture Sensitivity	.9





3. Mechanical Dimensions



Notes:

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







4. Electrical & Optical Characteristics

ITEM	SYMBOL	CONDITION	UNIT	120	230	277
Universal Drive Voltage (UV)	Vf	conected to line	Vrms	120	240	277
Viewing Angle	2θ ¹ / ₂		deg	120	120	120
Operating/Case Temperature	To/Tc	lf=127mA@120V	°C		70	max 90
Typical Op Power (no Dimmer)	W _T	lf=127mA@120V	W	19.6	21.1	18.7
Luminous Flux (3000°K) (no dim	т Ф		lm	1,724	2,002	1,917
Power Factor		If=127mA@120V		>.97	>.97	>.97
Total Harmonic Distortion	ATHD		%	<20%	<20%	<20%
Luminous Efficacy (4000K)	$\eta_{\rm v}$		lm/w	87	95	103
Flicker% at Full Power	200H	200Hz Step Filter			<3%	
Flicker% at 20% Dimming	200H	lz Step Filter	%		<23%	

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

Module Variants

MODEL NUMBER	ССТ	CRI	Dimmer	VAC	POWER	LUMEN	lm/W
SR110XS29A20WL35KIH-120-277	3500K	90	No	277	18.7	1917	103
SR110XS29A20WL35KIH-120-277	3500K	90	1-10	277	14.5	1551	107
SR110XS29A20WL35KIH-120-277	3500K	90	1-10	230	15.3	1533	100
SR110XS29A20WL35KIH-120-277	3500K	90	1-10	120	15.3	1459	95

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

ITEM	SYMBOL	ABSOLUTE MAXIMUM RATING	UNIT
Power Dissipation	Pd	22	W
A.C. Current	lf	150	mArms
AC Voltage	Vf	300	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

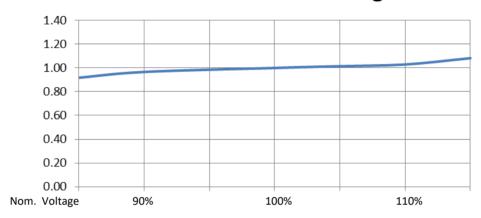
^{*}Values given are for specified drive current at 25°C case temperature





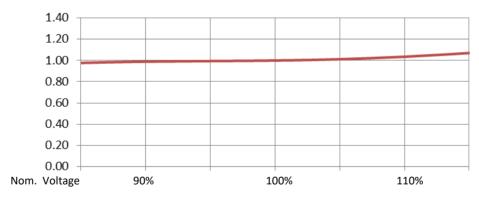
7. Typical Electrical & Optical Characteristic Curves

Relative Power vs Voltage

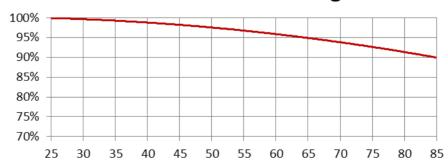


Ta=25°C

Relative Luminous Flux vs. Voltage

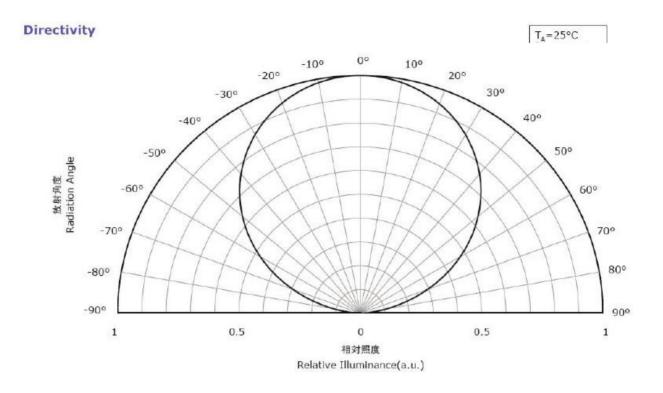


Lumen Thermal de-rating curve













8.Part Number Identification

	Part Number																			
Product Code	Shape	Dim		on/Diameter mm)		Int	erna	l Cod	es		Module Power		аТНD		/arm	(XXK) on Dim WD)	Connection Type	CRI	Input Voltage	Miscellaneous
S	R	1	1	0	Х	s	2	9	Α	2	0	w	L	3	5	K	1	н	U	

	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 1 0		2 0 W	L		3 5 K	- 1	Н		U	

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

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

Dimension/Diameter									
L	-	Х	Х	Х					
w	=	Υ	Υ	Υ					
D	=	Z	Z	Z					

	Module Power							
Q	Q = 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		=	2700К		
3	0	К		=	3000К		
3	5	К		=	3500K		
4	0	К		=	4000К		
5	0	К		=	5000К		
5	7	К		=	5700K		
3	2	w	D	=	~ 2700K To 2200K Warm on Dim		
4	2	W	D	ш	~ 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	=	12 VAC, Magnetic or Electronic Transformer Sourse	
12E	=	12 VAC, Electronic Transformer Sourse Only	
120V	=	120 VAC	
230V	=	230 VAC	
- 11	=	90 - 277 VAC Universal Voltage	





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