



SnapBrite® SLL228-15W-CM-22K/32K-120

120VAC Direct Connect – AC LED Module

IEEE/CEC-T24 Flicker Compliance

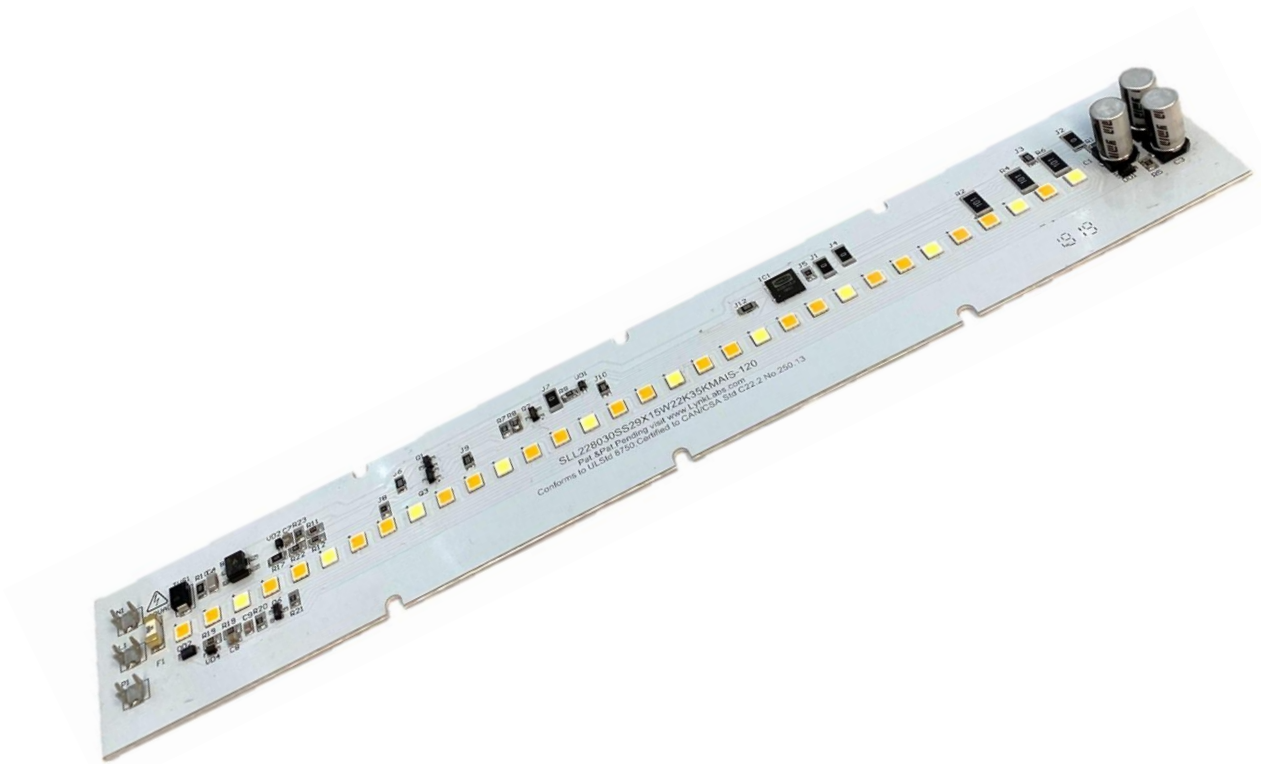
Patented Cool-Motion® Design

Normal On-State; 2200K ~760 Lumens @7.8W

On Detection of Motion; 3200K ~1367 Lumens @ 15W

228mm (8.98 inch) X 35mm (1.38") X 11.2mm (0.44 inch) Height

Technical Data Sheet





Direct Connect AC LED lighting Technology

SnapBrite® SLL228-15W-CM-22K/32K-120

Description

The SLL228-15W-CM-120 module utilizes Lynk Labs patented “Cool-Motion®” technology to increase the power/lumens output and switch to a cooler CCT when motion is detected.

The SLL228-15W-CM-120 module utilizes Lynk Labs patented “Driver on Board” technology to provide a compact, self-contained, highly reliable, easy to install module that can connect directly to 120VAC mains.

This module has been designed to meet the following standards; UL8750, CSA-C22.2 No 250, UL 94V0, RoHS, IEEE-1789, CEC-Title-24 (JA8).

This module is compatible with most ELV type Triac dimmers hooked in series with the power input.

This module is designed for long life based on the thermal performance of the fixture in which it is implemented. We recommend that the fixture be designed for a temperature $\leq 85^{\circ}\text{C}$ @ the thermal Test Points located on the module.

This module employs several Lynk Labs patents to cover the product from circuit to system. More information on Lynk Labs Intellectual Property is available at www.lynkylabs.com.

Features

- ✓ **760 lumens @ 2200K Normal On-Sate, 1367 lumens @ 3200K on detection of motion. (Motion Activated from Access Lighting to Task/Security Lighting)**
- ✓ **15W, 1367 Lumens**
- ✓ **Direct Mains; 90 to 132 VAC**
- ✓ **Low Flicker – Meets CEC T24 & IEEE-1798**
- ✓ **Driver on Board – Cost/Reliability**
- ✓ **Simple Installation**
- ✓ **Low THD**
- ✓ **Motion Sensor Interface; DF #5716A or Equivalent Phase-Cut Dimming**
- ✓ **ETL Recognition to UL8750 & CAS; C22.2 #250 Pending.**
- ✓ **Patent Protected Circuit-to-System**

Applications

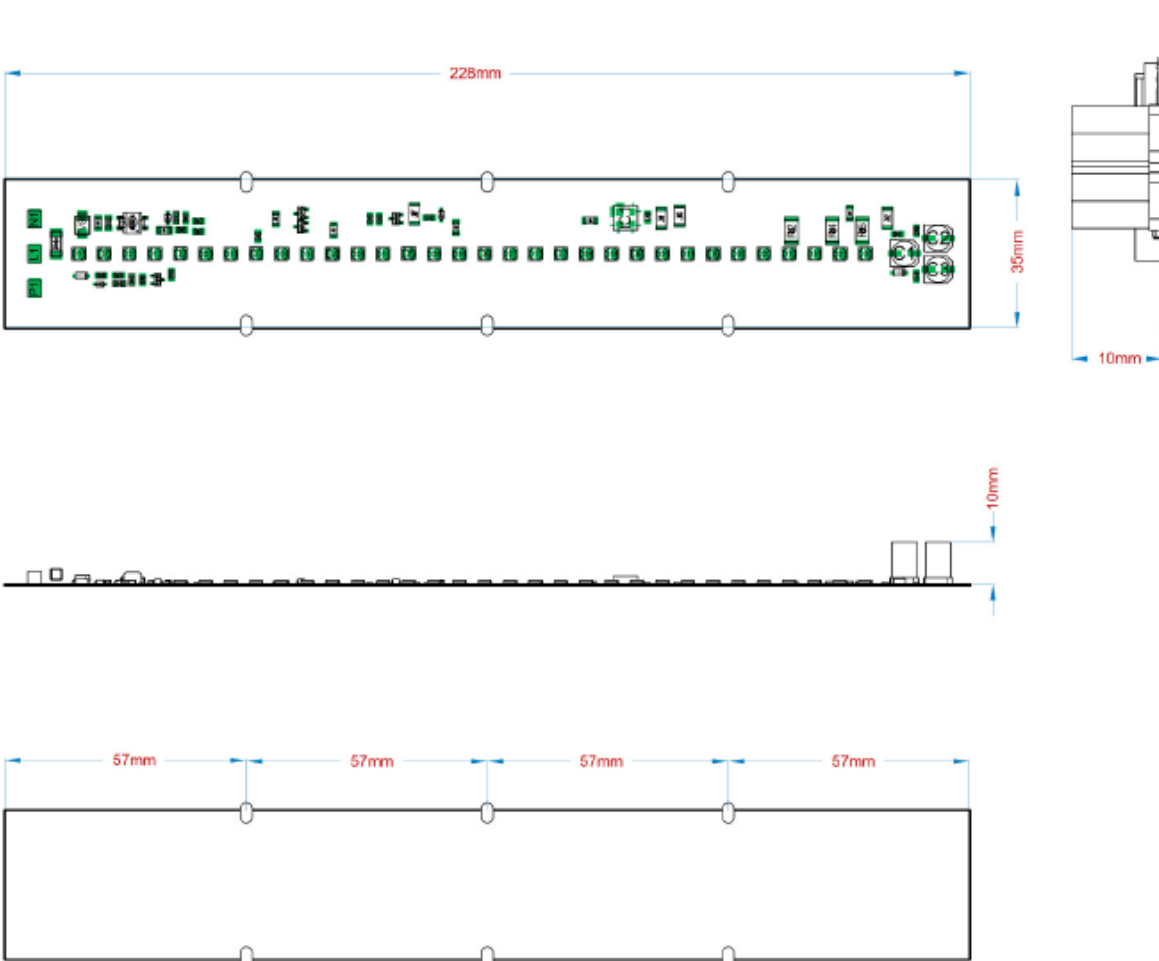
- **Lamps/Wall/Pathway/**
- **Under Cabinet**
- **Sconce**
- **Security Lighting**



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Mechanical Dimensions



Notes:

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



Electrical & Optical Characteristics

Item	Symbol	Condition	Unit	Min.	Typ.	Max.
Drive Voltage	V _f	Connected to Line	V _{rms}	100	120	132
Viewing Angle	2θ _½		Deg		120	
Case Temperature	T _c	I _f = 120 mA	°C		70	90
Life at Nominal Case Temp		T _c ≤ 70°C	kHrs		50	
Typical Operating Power	W _T	I _f = 65 mA	W		7.8	
		I _f = 125 mA	W		15.0	
Luminous Flux (3200K)	Φ		Lm		1,367	
Total Harmonic Distortion	ATHD		%		≤20	
Luminous Efficacy (3300K)	η _v		lm/W		91	
Flicker% Dimmer @ Max		200Hz Step Filter	%		<30%	
Flicker% Dimmer @ 20%		200Hz Step Filter	%		<30%	
Flicker% Dimmer @ Min		200Hz Step Filter	%		<30%	

*Measurement Uncertainty of the Luminous Flux: ± 10%

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

Part Number Variants	CCT	CRI	VAC	Power	Lumen	Lm/W
SLL228035SS29P15W22K32KMAIS-120	2200K	>80	120	7.8	760	96.7
	3200K	>85	120	15.0	167	91.0

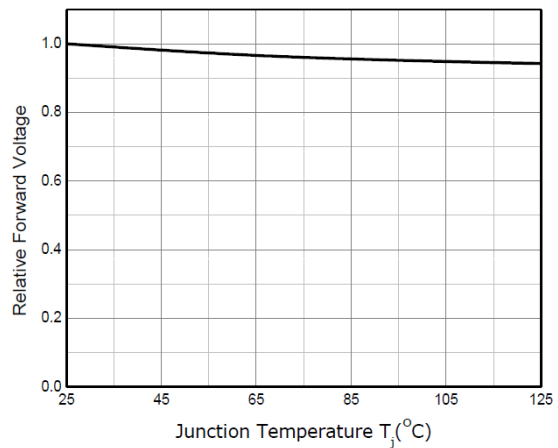
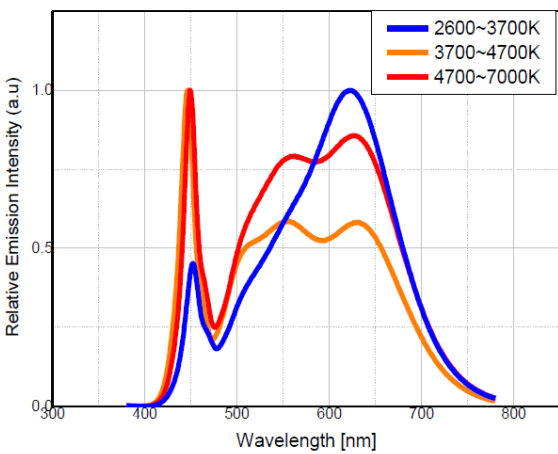
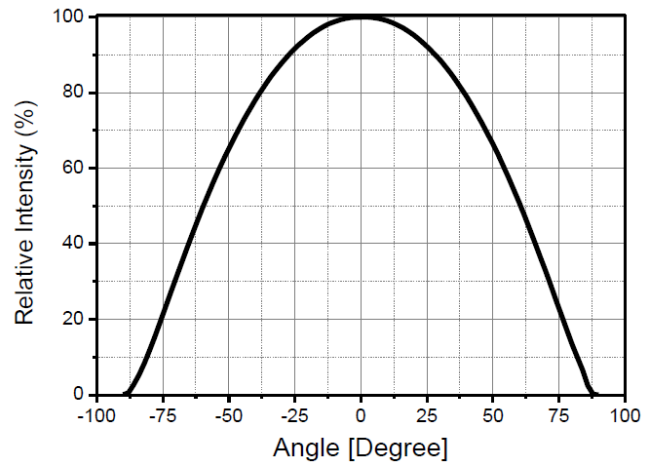
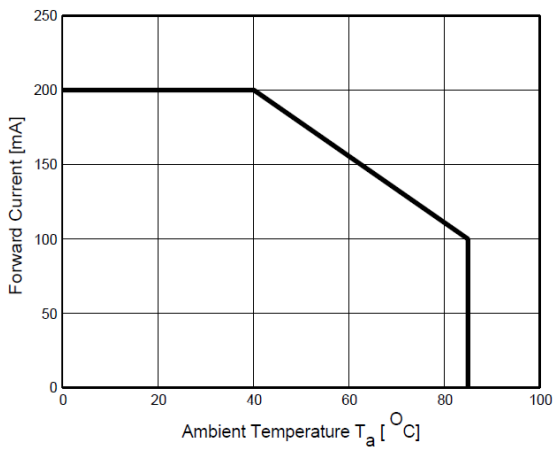
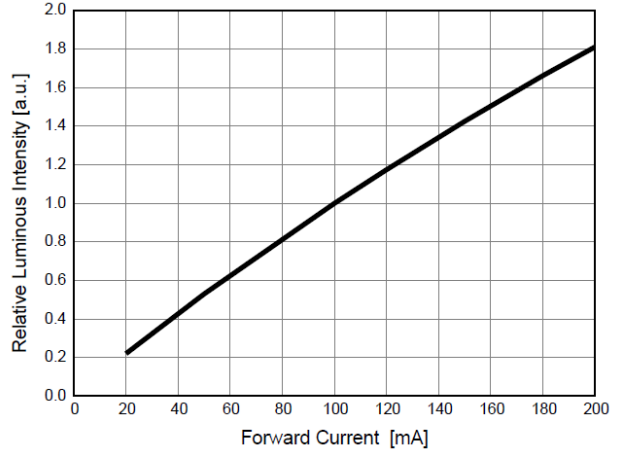
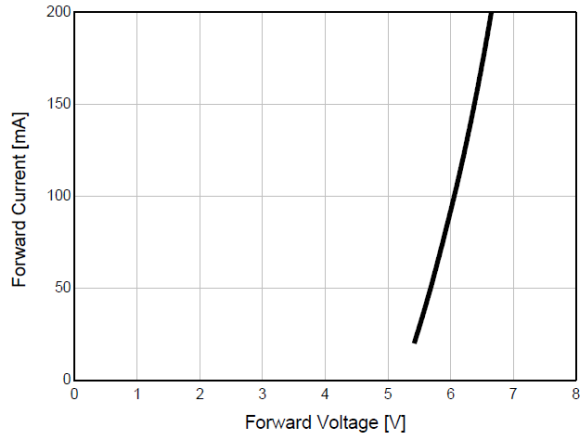
*Other CCTs may be Available to Special Order

Absolute Maximum Ratings (@ Ta=25°C)

Item	Symbol	Absolute Maximum Rating	Unit
Power Dissipation	P _d	17.0	W
AC Current	I _f	140	mA _{rms}
AC Voltage	V _f	132	V
Operating Temperature	T _o	-25 to +70	°C
Storage Temperature	T _s	-40 to +100	°C
Soldering Temp (Hand)	T _{sld}	370	°C



Typical Electrical & Optical Characteristic Curves





Part Number Identification

SLL228035		SS29		P		15W		--K(WD)		I		H		- 120		
Module Type: 228mm X 35mm DoB™, T24	LED Type: 3030, 1W, 9V	Dimming Type: Phase-Cut	Power: 15-Watts Motion	Color Temperature: 22K = 2200K 32K = 3200K-Motion	Connection Type: I = IDC C = Poke-In W = Wire X = Solder	CRI L = ≥70 S = ≥80 H = ≥80	Input Voltage: 120 Vac									

Installation

- 1) Product Name/produit masculin/producto masculino: **SLL228035SS29P15W22K32KMAIS-120**
- 2) Input/Entrée/Entrada: **120 VAC, 125 mArms, 15W, 60 HZ**
- 3) Dry Locations Only/Pour Emplacements Secs Seulement/Para lugares secos solo
- 4) Mount securely to a thermally conductive flat surface designed to achieve $\leq 85^{\circ}\text{C}$ @ the TC test point/Monter solidement sur une surface plane thermoconducteur conçue pour atteindre $\leq 85^{\circ}\text{C}$ @ le point d'essai de TC/Monte firmemente a una superficie plana térmicamente conductiva, diseñada para lograr el $\leq 85^{\circ}\text{C}$ @ el punto de prueba de TC.

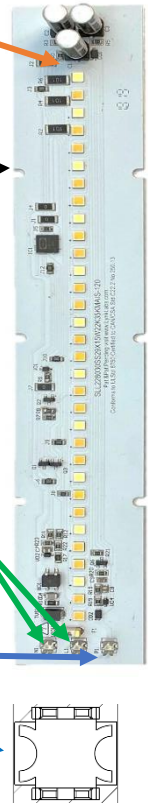
✓ Intended for factory installation only.

✓ Mount the module to the Fixture/Heat Sink.


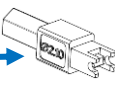
- Use six pan-head screws with <math><3.2\text{mm}</math> shaft. A #4-40 Screw is recommended with an insulating washer under the pan-head.
- The use of Thermal Bond Material Between the Module & Heat Sink is Recommended (3M-8805 Thermal Tape, Thermal Grease, Aavid-ThermalCote™ or Equivalent).

✓ Connect the AC-Voltage to the module.

- Direct Mains; 90 to 120 VAC only.
 - Use appropriate strain relief when attaching wire to the module.
 - Thin-Jacketed 18 AWG Stranded Wire Pair is recommended.
 - Punch down the Line & Neutral wire to the appropriate AVX, IDC Contact (L/N marked on the board). Minimize wire overhang.
 - Connect Motion Sensor to IDC Connector, "P1".
- The Connector used is a AVX, IDC, Part Number; 709176001501006.
 - Will work with 18 AWG Fine-Stranded or Solid Wire.





- Insulation Diameter 1.6mm to 2.1mm.
- Use AVX Punch Down Tool, 067000763001000 with  069176701901000 Metal tool 
 - Attach Motion Sensor to the P1 connector and mount the sensor to the fixture based on the application and usage plan.



ETL Recognized UL9750 & CSA-C22.2; Report # *In Process*

Flicker Performance @2200K-Default Mode (Pass = <30% @ ≥200 Hz):

Dimmer set to Maximum (100%)	0-40 Hz	0-90 Hz	0-200 Hz	Pass/Fail
Percent Flicker	17%	17%	17%	Pass
Amplitude Modulation	0.17	0.17	0.17	Pass
Dimmer set to 20%	0-40 Hz	0-90 Hz	0-200 Hz	Pass/Fail
Percent Flicker	26%	26%	27%	Pass
Amplitude Modulation	0.26	0.26	0.27	Pass
Dimmer set to Minimum	0-40 Hz	0-90 Hz	0-200 Hz	Pass/Fail
Percent Flicker	25%	25%	27%	Pass
Amplitude Modulation	0.25	0.25	0.27	Pass

Caution; High-Voltage is Present on the Top Surface of the Module!

Customer Service; 847-783-0123