

10W 295mm 12V AC Electronic Linear Module AC LED Technology by Lynk Labs **Compatible with Phase-cut Dimmers** 5 yr. Warranty when used with TRP 12V AC power supply

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Model

Number

99031

99264 99032

99265

99033

99034

99035

Specifications

Drive Voltage:	Power with TRP #99002, 99004 or 99006 electronic transformer. Not to exceed 13V.
AC Current:	840mA @25°C typical; 1167mA max
Power Dissipation:	11.8W typical; 147W max
Life:	50,000 Hrs, if used as specified
Luminous Flux:	660 lm @3000K
Luminous Efficacy:	66 LPW ±10% @3000K
Viewing Angle:	120 deg
Operating Temp:	-25°C to +100°C
Storage Temp:	-40°C to +100°C
Soldering Temp:	370°C

Low voltage AC LED modules offer an effective replacement for incandescent, Xenon or Halogen lamps. Patented AC LED technology eliminates the need for an AC-DC driver. Compatible with existing magnetic or electronic 12V AC power supplies.

> 12W 295mm 12V AC LED Module - Specifications Input Voltage (Vac)

> > 12

12

12

12

12

12

12

Input

Power (W)

10

10

10

10

10

10

10

Color Temp (K)

2200

2700

3000

3500

4000

5000

5700

Lumens

638

653

660

673

680

696

706

LPW

64

65

66

67

68

70

71

Features

- · Compatible with existing electronic 12V AC Power Supplies
- · Polarity Independent
- · Reliable, fast and easy "Plug & Play"
- · Compatible with most existing leading edge or trailing edge phase cut AC Dimmers
- High Power Efficiency
- · High Power Factor
- Significant Energy Savings
- Durable Light Source
- · Long Operating life

Applications

- Linear Lighting
- · Cove Lighting
- Under Cabinet Lights
- Step Lights
- Accent Lights
- · Garden Lights
- · Display Lights

Dimensions:

295 ±0.254 mm L x 10 ±0.254mm W x 2mm ±10% H

1.2 0.8																							
4.9 - 0.0 - 0.0 - 4.9 0.0	128.9	116.6	104.3	92.1	79.8	67.5	55.2	43.0	30.7	18.4	6.1	6.1	18.4	30.7	43.0	55.2	67.5	79.8	92.1	104.3	116.6	128.9	141.2
Modules	Modules can be daisy-chained, limit of 4 per chain.																						

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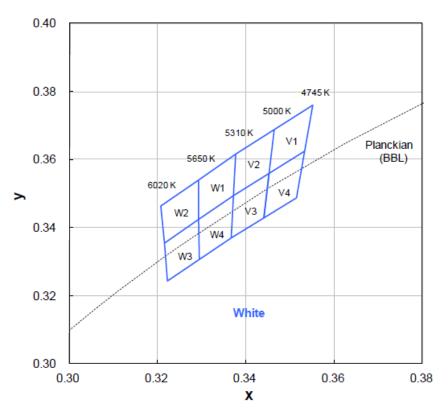
Rev 4-9-15



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White Binning Structure Graphical Representation



White Bin Structure

Bin Code	х	У	Typ. CCT (K)	Bin Code	x	У	Typ. CCT (K)
V1	0.346	0.369			0.329	0.354	5475
	0.355	0.376	4970	W1	0.338	0.362	
	0.353	0.362	4870		0.337	0.349	
	0.345	0.356			0.329	0.342	
V4	0.345	0.356		W4	0.329	0.342	
	0.353	0.362	4870		0.337	0.349	5475
	0.352	0.349			0.337	0.337	
	0.344	0.343			0.329	0.331	
	0.338	0.362	5155	W2	0.321	0.346	5830
1/0	0.346	0.369			0.329	0.354	
V2	0.345	0.356			0.329	0.342	
	0.337	0.349			0.322	0.335	
	0.337	0.349	5455	W3	0.322	0.335	5830
1/0	0.345	0.356			0.329	0.342	
V3	0.344	0.343	5155		0.329	0.331	
	0.337	0.337			0.322	0.324	
Tolerance	on each colo	r bin (x , y) is	± 0.01				

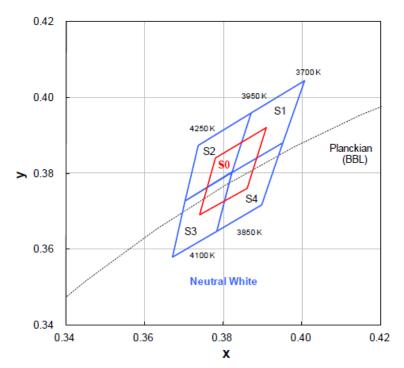




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Neutral White Binning Structure Graphical Representation



Neutral White Bin Structure

Bin Code	x	У	Typ. CCT (K)	Bin Code	x	У	Typ. CCT (K)
	0.387	0.396		S2	0.374	0.387	
64	0.401	0.404	2025		0.387	0.396	4400
S1	0.395	0.388	3825		0.382	0.380	4100
	0.382	0.380			0.370	0.373	
	0.382	0.380		S3	0.370	0.373	
64	0.395	0.388	3825		0.382	0.380	4100
S4	0.390	0.372			0.378	0.365	4100
	0.378	0.365			0.367	0.358	
	0.374	0.369					
60	0.378	0.384	3975				
S0	0.391	0.392	3975				
	0.386	0.376					

• Tolerance on each color bin (x, y) is ± 0.01





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Warm White Binning Structure Graphical Representation 0.46 0.44 2850 K 3050 K 0.42 3250 K N1 N2 > Planckian (BBL) N0 0.40 N4 N3 2950 K 0.38 3150 K 0.36 0.40 0.42 0.44 0.46 0.48 х Warm White Bin Structure Тур. ССТ Typ. CCT Bin Code х у Bin Code х у (K) (K) 0.443 0.430 0.421 0.417 0.456 0.426 0.443 0.421 N1 2950 N2 3150 0 447 0 4 0 8 0 435 0 4 0 3

	0.447	0.400			0.455	0.405	
	0.435	0.403			0.422	0.399	
N4	0.435	0.403			0.422	0.399	
	0.447	0.408	2950	N3	0.435	0.403	3150
	0.437	0.389	2930		0.426	0.385	5150
	0.426	0.385			0.415	0.381	
NO	0.424	0.392					
	0.432	0.410	3050				
	0.445	0.414	3030				
	0.436	0.396					

Tolerance on each color bin (x , y) is ± 0.01

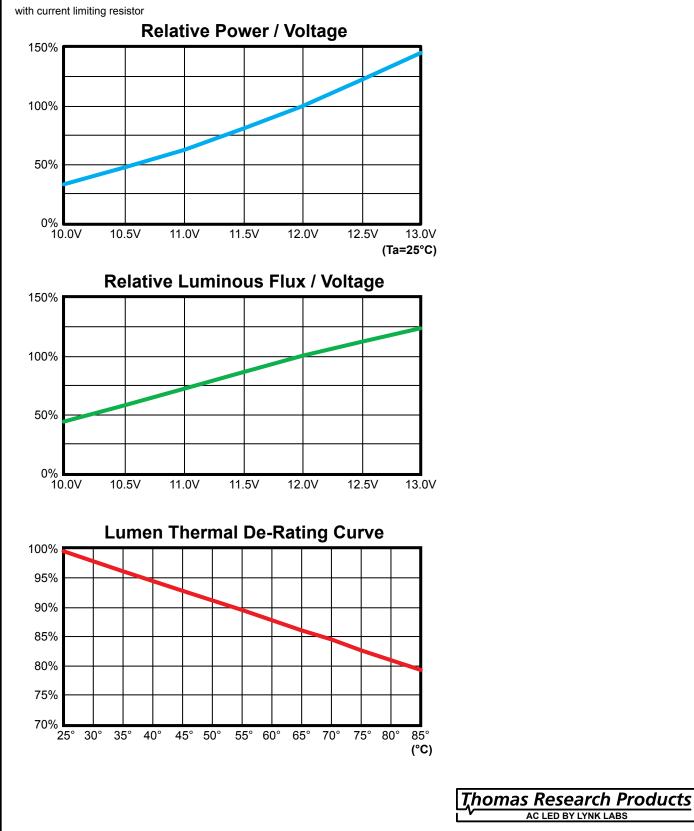




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Typical Electrical & Optical Characteristic Curves:





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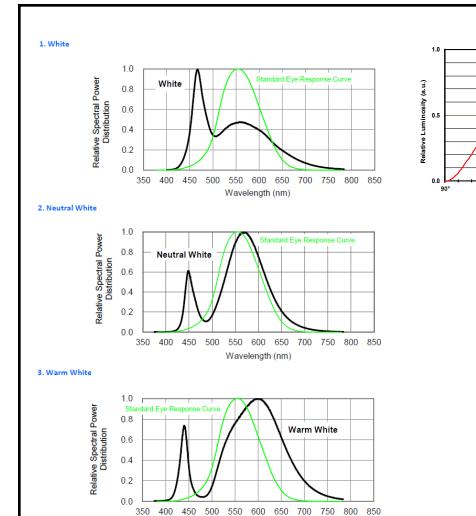
0

Radiation Angle

60°

30

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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.

Wavelength (nm)

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.

Design Considerations/Specifications

Thermal Management Requirements

- Heat Sink Required (22 square cm/watt surface area)
- Thermal epoxy No mechanical mounting required
- Thermal tape No mechanical mounting required
- Thermal grease Mechanical mounting required

Mechanical Mounting

- · Use nylon washers for all mounting holes when using screws.
- Do not put force on LEDs.
- Do not bend PCB.

Electrical Interface

Solder Pads

