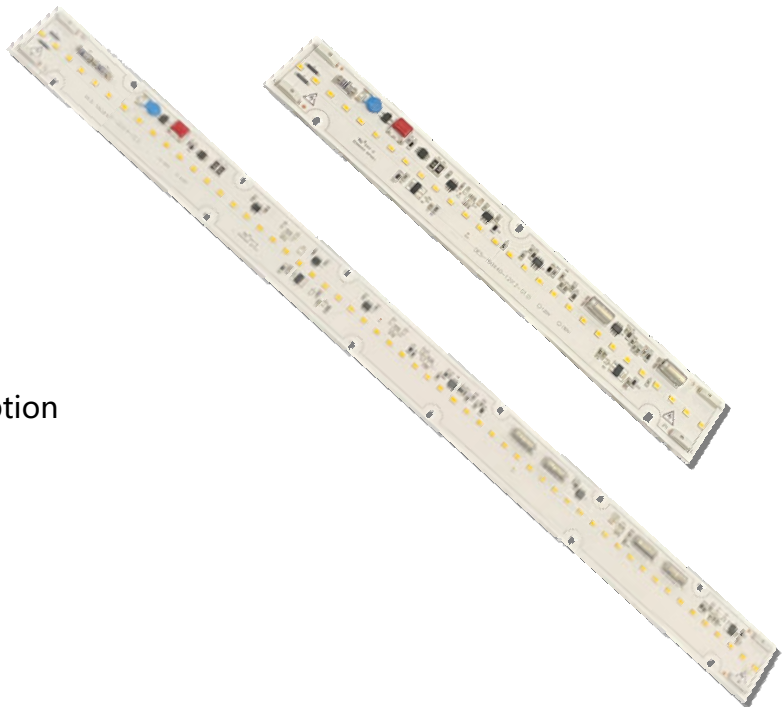


EdiLex AC 120v Linear Zhaga Module

DATASHEET

Product Description

- 120Vac Voltage input
- 12W/24W Power Consumption
- 280*40mm/560*40mm



Application



Cabinet Light

Feature

- Directly connect to AC line voltage
- Low Flicker
- TRIAC Dimmable
- ROHS compliant

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General Information

● Ordering Code Format

<u>5</u>	<u>ELA</u>	<u>C</u>	<u>L</u>	<u>2T</u>	<u>12</u>	<u>XX</u>	<u>XX</u>	<u>XX</u>
X1	X2 - X4	X5	X6	X7 - X8	X9 - X10	X10 - X12	X13 - X14	X15 - X16

X1		X2-X4		X5		X6		X7 - X8		X9 - X10	
Item		Module application		Dimensions		IC		LED Type		Voltage	
				L	Rectangular						
5	Module	ELA	EdiLex AC	C	Circle	--	--	2T	PLCC	12	120V
				R	Ring						

X11 - X12	X13 - X14	X15 - X16
Wattage	Color	Serial Number
12	12W	30 3000K
24	24W	40 4000K
		50 5000K

Product Code Information

Part No.	Description
5ELALN2T12123020	AC995_3000K_12W_120V_CRI90_280*40
5ELALN2T12124020	AC995_4000K_12W_120V_CRI90_280*40
5ELALN2T12125720	AC995_5700K_12W_120V_CRI90_280*40
5ELALN2T12243017	AC962_3000K_24W_120V_CRI90_560*40
5ELALN2T12244017	AC962_4000K_24W_120V_CRI90_560*40
5ELALN2T12245717	AC962_5700K_24W_120V_CRI90_560*40

Electrical Characteristic

Parameter	Min	Typ	Max	Unit
Rated supply voltage AC	108	120	132	V
Input voltage AC	--	120	--	V
Mains frequency		50/60		Hz
Typ Power factor		0.9		--
Percent Flicker			20	%
Beam characteristic		120		°
Operating ambient temperature	-25		+55	°C
Tc point			85	
Hi-pot Test (AC input to Bottom)	1.25			KV

Absolute Ratings

Parameter	Min	Max	Unit
Input voltage		132	V
Surges protection(L/N)		1.5	KV
Case Temperature (Tc)		85	°C
Operating ambient temperature	-25	+55	°C
Storage ambient temperature	-40	+30	°C
Storage ambient humidity		45	%

Electro-Optical Characteristics (Vin=120V ; Tc=25°C)

Part No.	Parameter	Min	Typ	Max	Unit
5ELALN2T1212xx20	Power consumption	11.1	12	12.8	W
	Lumen Flux at Tc=25°C 3000K	--	1140	--	Lm
	4000K	--	1140	--	Lm
	5700K	--	1200	--	Lm
	Color rendering index (Ra)	90	--	--	--
	R9	50	--	--	--

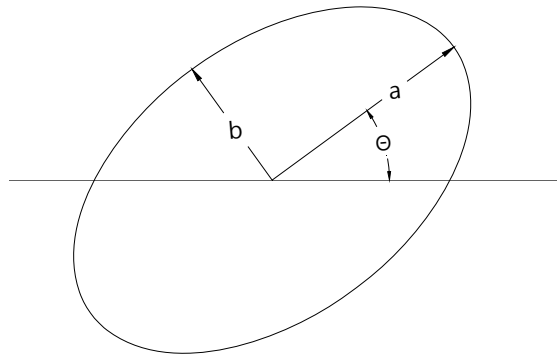
Part No.	Parameter	Min	Typ	Max	Unit
5ELALN2T1224xx17	Power consumption	22.3	24	25.6	W
	Lumen Flux at Tc=25°C 3000K	--	2280	--	Lm
	4000K	--	2280	--	Lm
	5700K	--	2400	--	Lm
	Color rendering index (Ra)	90	--	--	--
	R9	50	--	--	--

Note:

Measurement precision $\pm 7\%$ for the flux data and $\pm 7\%$ for the efficacy data.

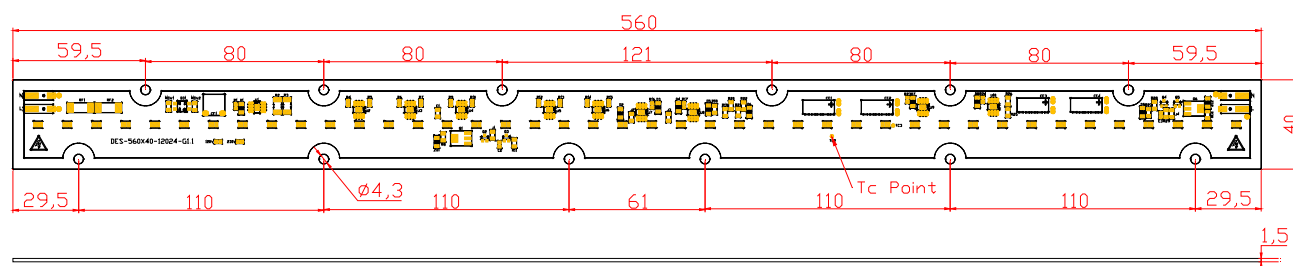
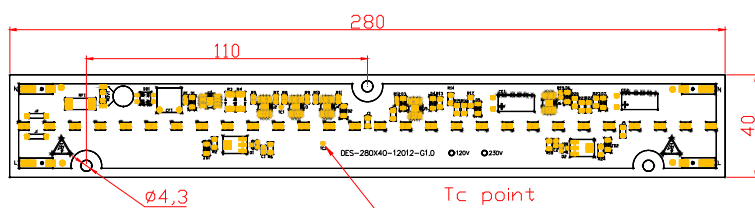
Measurement precision for CRI ± 2 and for color temperature $\pm 150K$

Chromaticity Coordinates (T_c=25°C)



CCT	Steps	Cx	Cy	a	b	theta
3000K	5	0.4578	0.4101	0.00810	0.00420	53.70
4000K	5	0.4338	0.4030	0.00834	0.00408	53.22
5700K	5	0.3818	0.3797	0.00939	0.00402	53.72

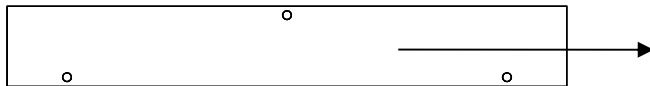
Mechanical Characteristics



Note:

All dimension unit in mm

Marking Information



Example:

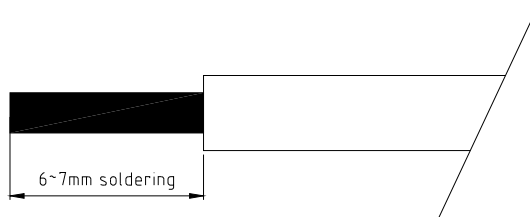
5ELALN2T1212xx20
 AC 120V_xxW_XXXXK_Dim
 XX303XXX
 11180000XXXX
 21XXXX

- 1: Part No.
- 2: Description
- 3: LED BIN
- 4: Lot No.
- 5: Date (YYMMDD)+Flow code

Wire Condition

The wiring should be solid cable with a cross section of 18AWG.

For the push-wire connection you have to strip the insulation (6-7mm)



Precaution for Use

1. Please note that AC Module products are driven by high voltage, therefore when operating AC Modules should be very cautious.
2. DO NOT touch the circuit board, components or terminals with body or metal while the circuit is active.
3. DO NOT add or change wires while the circuit of AC Module is active.
4. Long time exposure to sunlight or UV should be avoided; otherwise, it may cause the discoloration of lens.
5. DO NOT use adhesives to attach the LED that outgas organic vapor.
6. DO NOT use the products with materials containing Sulfur.
7. DO NOT assemble in humid environment or the conditions of containing oxidizing gas such as Cl, H₂S, NH₃, SO₂, NO_x, etc.
8. DO NOT make any modifications on the products.
9. AC Module uses integrated circuit (IC) which can be damaged when exposed to static electricity. Please operate with antistatic device. Do not touch the product unless ESD protection is used. AC Module can't be installed in end product unless the ESD protection is used.
10. DO NOT press the product; even a slight pressure may damage the product. The environments such as high temperatures, high humidity or direct expose to sunlight should be avoided since the product is sensitive to these conditions.
11. Storage Precautions:
 - (1) The devices should be stored in the anti-static bag.
 - (2) If the anti-static bag has been opened, please make sure to reseal the bag to avoid air and moisture infiltrate in the bag.
12. It is strongly suggested to wear rubber insulated gloves and rubber bottom shoes while operating the AC Modules.
13. DO NOT wear any conductive accessories (such as jewelry) which could accidentally get an electric shock.
14. Faults, lightning, or fast switch may cause voltage surge which surpasses the normal value.
15. The failure of internal component may cause excessive voltages.
16. DO NOT directly make the HI-POT test over DC 1,750V on the module.
17. DO NOT separately connection L and N terminal when the power source turn on.

Environmental Compliance

AC module series are compliant to the Restriction of Hazardous Substances Directive or RoHS. The restricted materials including lead, mercury cadmium hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE) are not used in AC module series to provide an environmentally friendly product to the customers.

Revision History

Versions	Description	Release Date
1.0	Preliminary	2024/3/18

About EDISON OPTO

Edison Opto provides comprehensive LED and solid-state lighting products from LED Component, Light Module, UV / IR LED, LED sensing, Horticulture and Automotive Lighting. With a view to improve R&D process, Edison Opto develops the vertical platform on **TEMOTM** (Thermal . Electrical . Mechanical. Optical) to ensure the quality of products and services; Furthermore, Edison Opto creates **LDMSTM** (Lighting Design Manufacturing Service) from light source to luminaire manufacturing, to serve our customers a quality experience of customized solutions.

Learn more

