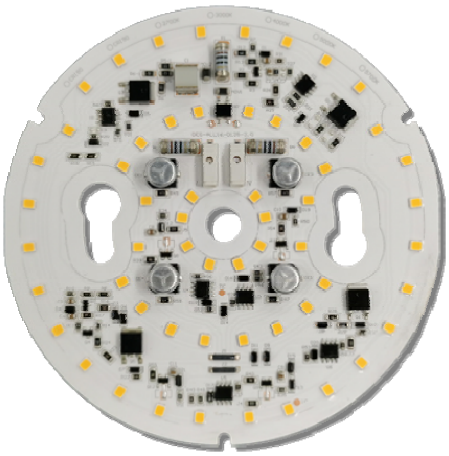
EdiLex D125 Full Voltage Module

DATASHEET



Product Description

- 120/277 Vac Voltage input
- 16W Power Consumption
- D125mm

Application

Down Light

Ceiling Light

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Feature

- Directly connect to AC line voltage
- Flicker Free below 10% percent flicker
- TRIAC Dimmable
- Wire push in connector
- ROHS compliant

Table of Contents

General Information

- **Ordering Code Format**

5	ELA	C	N	2T	D2	16	XX	XX
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	
5	Module	ELA	EdiLex AC	L	Rectangular	--	2T	PLCC	D2	120/277V
				C	Circle					
				R	Ring					

X11 - X12		X13 - X14		X15 - X16
Wattage		Color		Serial Number
16	16W	27	2700K	
		30	3000K	
		40	4000K	
		50	5000K	

Product Code Information

Part No.	Description
5ELACN2TD2162701	ACA20_2700K_16W_120V/277V_CRI90_D125
5ELACN2TD2163001	ACA20_3000K_16W_120V/277V_CRI90_D125
5ELACN2TD2164001	ACA20_4000K_16W_120V/277V_CRI90_D125
5ELACN2TD2165001	ACA20_5000K_16W_120V/277V_CRI90_D125

Electrical Characteristic

Parameter	Min	Typ	Max	Unit
Rated supply voltage AC	115	120/277	282	V
Input voltage AC	108		300	V
Mains frequency		50/60		Hz
Typ Power factor		0.9		--
Percent Flicker			10	%
Beam characteristic		120		°
Operating ambient temperature	-25		+55	℃
Tc point			85	
Hi-pot Test (AC input to Bottom)	1.24			KV

Absolute Ratings

Parameter	Min	Max	Unit
Input voltage		300	V
Surges protection(L/N)		1.5	KV
Case Temperature (Tc)		85	℃
Operating ambient temperature	-25	+55	℃
Storage ambient temperature	-40	+30	℃
Storage ambient humidity		45	%

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

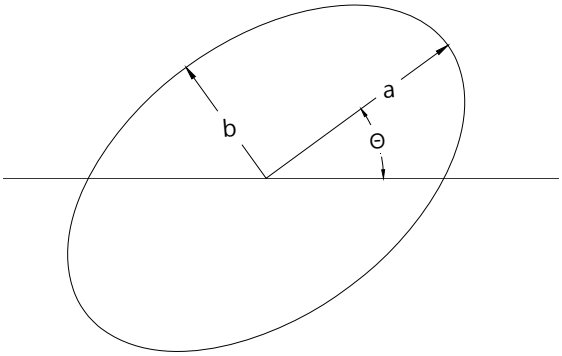
Part No.	Parameter	Min	Typ	Max	Unit
5ELACN2TD216XX01	Power consumption	14.5	16	17	W
	Lumen Flux at Tc=25℃ 2700K	--	1500		Lm
	3000K	--	1600		Lm
	4000K	--	1680		Lm
	5000K	--	1680		Lm
	Color rendering index (Ra)	90	--	--	--
	R9	50	--	--	--

Note:

Measurement precision ± 7% for the flux data and ± 7% for the efficacy data.

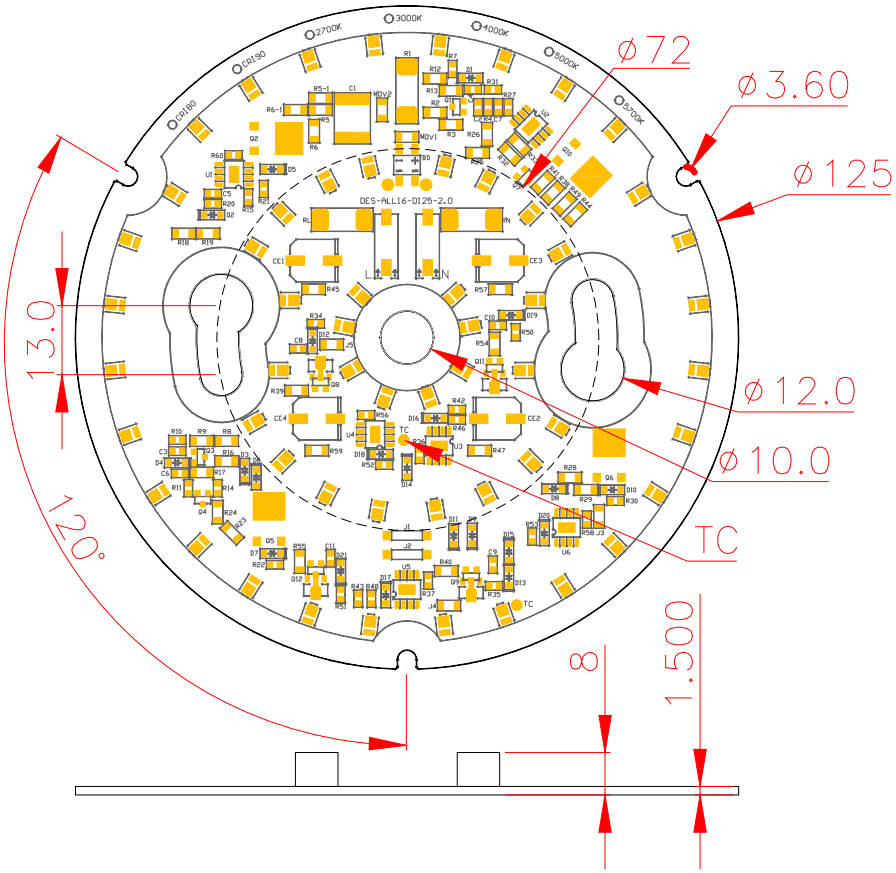
Measurement precision for CRI ± 2 and for color temperature ±150K

Chromaticity Coordinates (Tc=25°C)



CCT	Steps	Cx	Cy	a	b	theta
2700K	5	0.4578	0.4101	0.0135	0.00700	53.70
3000K	5	0.4338	0.4030	0.0139	0.00680	53.22
4000K	5	0.3818	0.3797	0.01565	0.00670	53.72
5000K	5	0.3447	0.3553	0.01370	0.00590	59.60

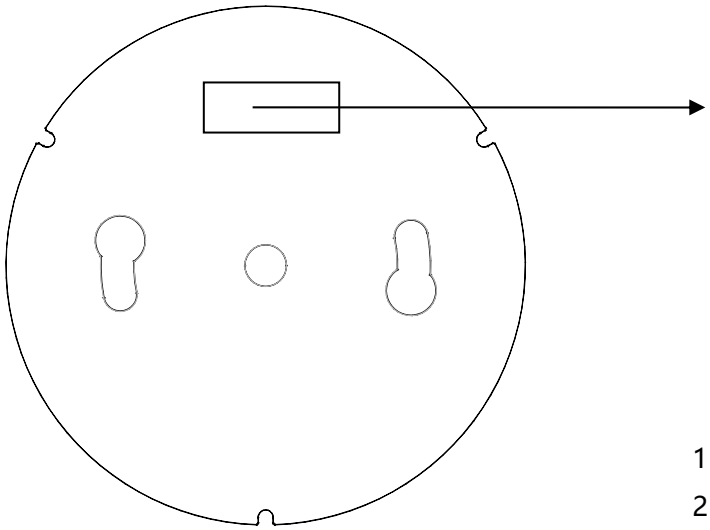
Mechanical Characteristics



Note:

All dimension unit in mm

Marking Information



Example:

5ELACN2T2310xx35
AC 230V_W_XXXXK_
XX303XXX
11180000XXXX
21XXXX

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

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, H_2S, NH_3, SO_2, NOX, 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
V_1.0	Establish a Datasheet.	2022/08/02

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 **TEMO™** (Thermal . Electrical . Mechanical. Optical) to ensure the quality of products and services; Furthermore, Edison Opto creates **LDMS™** (Lighting Design Manufacturing Service) from light source to luminaire manufacturing, to serve our customers a quality experience of customized solutions.

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