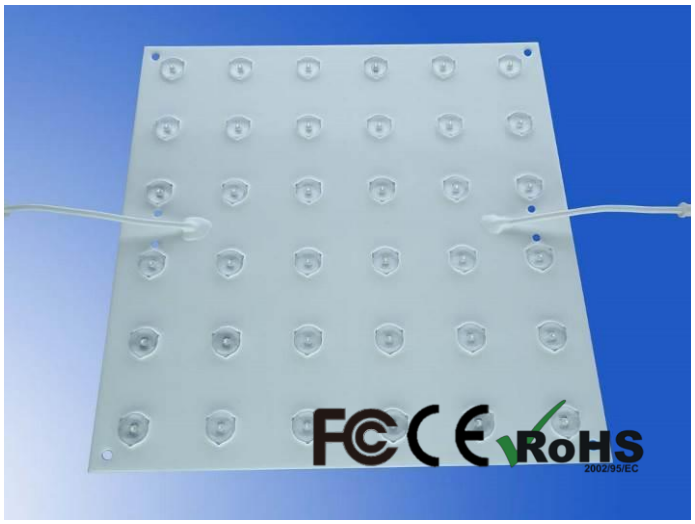
Description: RX-ALF28T Series Waterproof LED module , Ultra-Slim Light Box direct type light source - can be continuously stitching. In particular optical 160° lens, 20mm NO HOT SPOTS! A variety of sizes of interlocking and connectable panels allows for variety of designs to be configured. maximum connection size1.2m^2/No additional cables. (Larger sizes can be connected in parallel). Mainly used for light boxes backlight, large-scale backlights projects, Do your own energy-saving lighting project.



CRI 85
Luminous efficiency
126Lm/W @83mA/LED

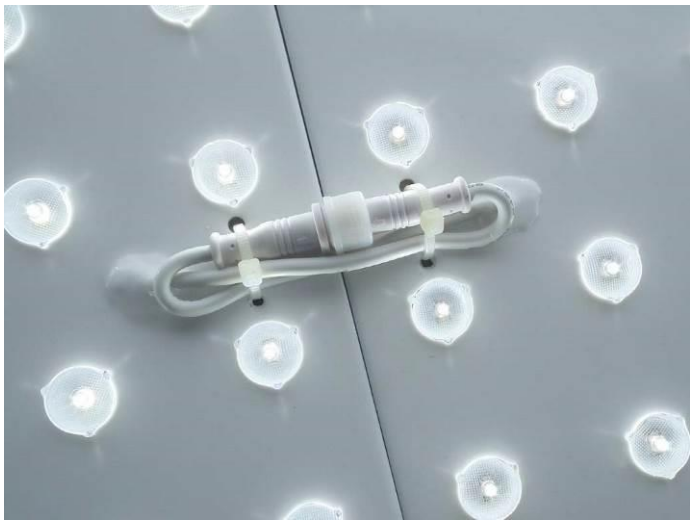
Waterproof IP67
Silicone Potting

A variety of sizes
Largest custom size
1080x540mm

20mm No hot spots
Dedicated to Larger sizes Ultra-slim light-box

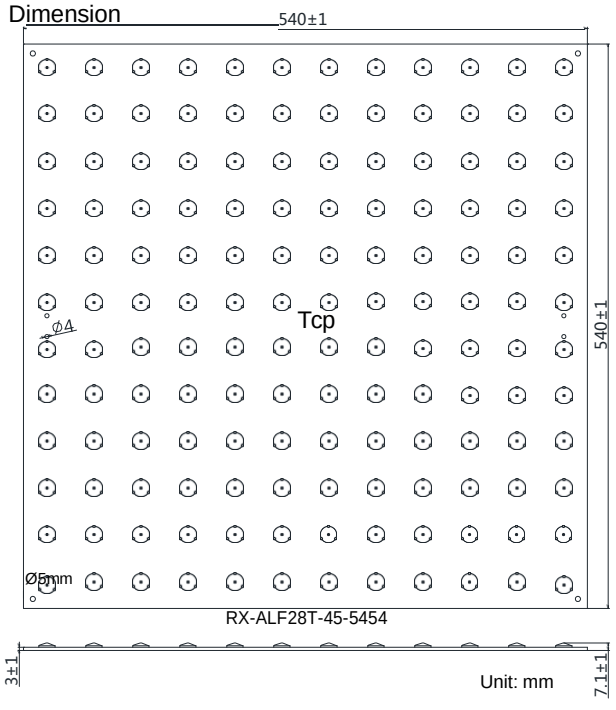
Ta -40~50°C
No additional heatsink

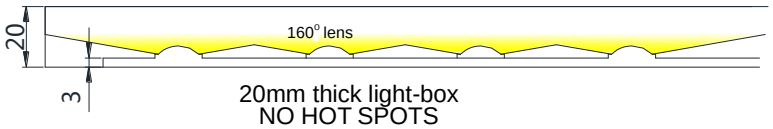
Stitching Size 1.2m^2
No additional connection wires



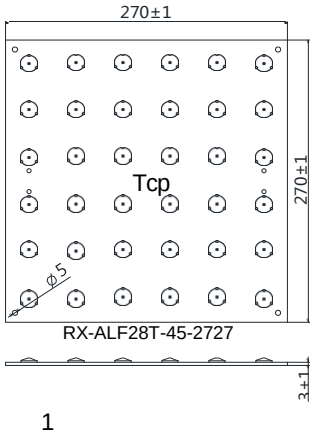
Application specs	
Single LED brightness	52Lm @150mA 42Lm@117mA 32Lm@83mA
Default Colors	CW6000~6500K
Other colors	WW2800~3200K NW3800~4250K
CRI	85
Application Environment	Dry & Damp Locations IP67
Operating Temperature	-40~65°C Tcp
Electrical specs	
Power	--
Input	DC 35~39.3V@ 117mA/LED
Interconnect connection	Max 3.5A
Warranty	3 years
Certification	CE RoHS FCC

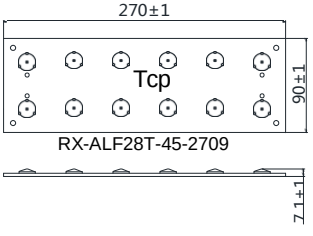
Dimension





20mm thick light-box
NO HOT SPOTS





Technical Data:

Part Number	Dimensions Net weight	LED QTY	Luminous flux Typ	Forward VoltageTyp	Test Current	Power Typ	Efficacy Typ	Stitching QTY TYPE B Max	Tcp Test
RX-ALF28T-45-2709	270x90mm 150g	12s 1p 12pcs	380Lm	36.2V	83mA	3W	126Lm/W	42pcs	31°C
			510Lm	37.5V	117mA	4.4W	116Lm/W	30pcs	33°C
			626Lm	38.7V	150mA	5.8W	108Lm/W	23pcs	35°C
RX-ALF28T-45-2727	270x270mm 380g	12s 3p 36pcs	1135Lm	36.2V	250mA	9W	126Lm/W	14pcs	31°C
			1520Lm	37.5V	350mA	13.1W	116Lm/w	10pcs	33°C
			1880Lm	38.7V	450mA	17.4W	108Lm/W	8pcs	35°C
RX-ALF28T-45-5454	540x540mm 1600g	12s 12p 144pcs	4560Lm	36.2V	1000mA	36.2W	126Lm/W	4pcs	32°C
			6090Lm	37.5V	1400mA	52.5W	116Lm/w	3pcs	34°C
			7526Lm	38.7V	1800mA	69.7W	108Lm/W	2pcs	36°C

Note: Beam characteristic160 °, Tolerance range for optical and electrical data: ±10 %.

The above table data testing at room temperature is 25 °C, Cooling by free air convection. CRI 85,

*Minimum distance required from Panel to face. Calculated with 2447 milky white acrylic with no graphics, Depth on faces with graphics can nave thinner cabinet depths, Consult with XineLam for samples and depth demonstrations. Special sizes, Consult with XineLam Reps and Distributors

Maximum Rated Values

Part Number	Forward Current	Forward Voltage
RX-ALF28T-xx-2709	165mA	39.2V@165mA
RX-ALF28T-xx-2727	500mA	39.3V@500mA
RX-ALF28T-xx-5454	2000mA	39.6V@2000mA
--		

Thermal Characteristics

Storage Temperature, TSTG	-40 ~ +65°C
Operating Temperature, Top	-40 ~ +65°C
Max. Tcp Point Temp.	65°C
Ambient Temperature Ta -40 ~ +52°C Due to the use of different environments, the data for reference only!	

LED Driver connection examples:

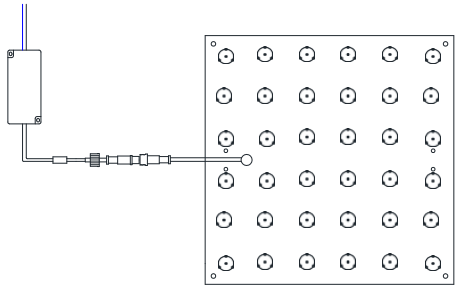
	RX-ALF28T-45-2727	RX-ALF28T-45-5454
EFC-09-300mA	1S 36.9V@300mA 1285Lm AC 13.8W PF0.6	--
EFC-022-600mA	2P 36.9V@300mA x2 2600Lm AC 25W PF0.9	--
HLG-120H-36A 33~40V @ 3400mA	8P 38.5V@425mA x8 14100Lm AC 145W PF0.9	2P 38.8V@1700mA x2 14100Lm AC 145W PF0.9

Part Numbering

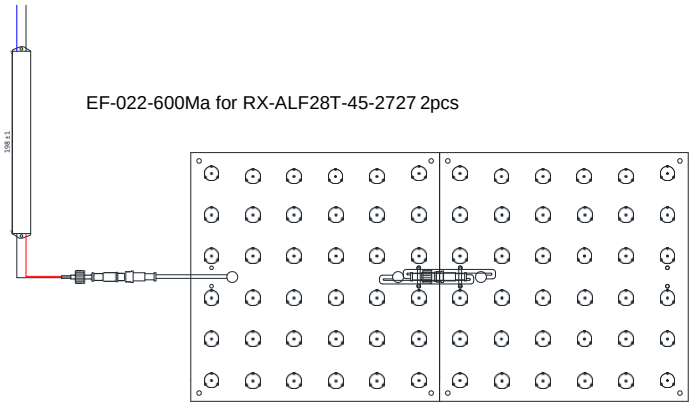
RX-ALF28T	-45	-XXXX	-XX
	LED spacing	Size	Photometic Code CW6000~6500K NW3800~4250K WW2800~3200K

Where 1S = 1 Module, 4P is 4 Module in parallel etc; Power includes drivers consumption

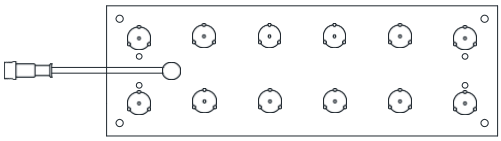
EF-09-300Ma for RX-ALF28T-45-2727



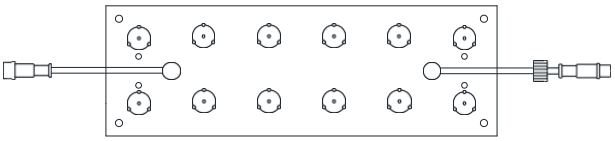
EF-022-600Ma for RX-ALF28T-45-2727 2pcs



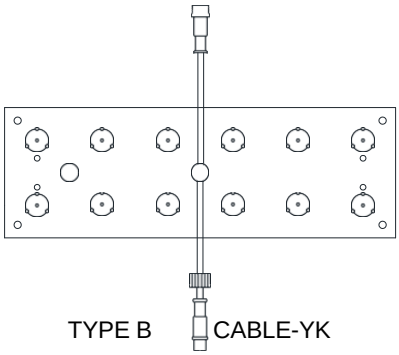
Appearance



TYPE A



TYPE B CABLE-XZ

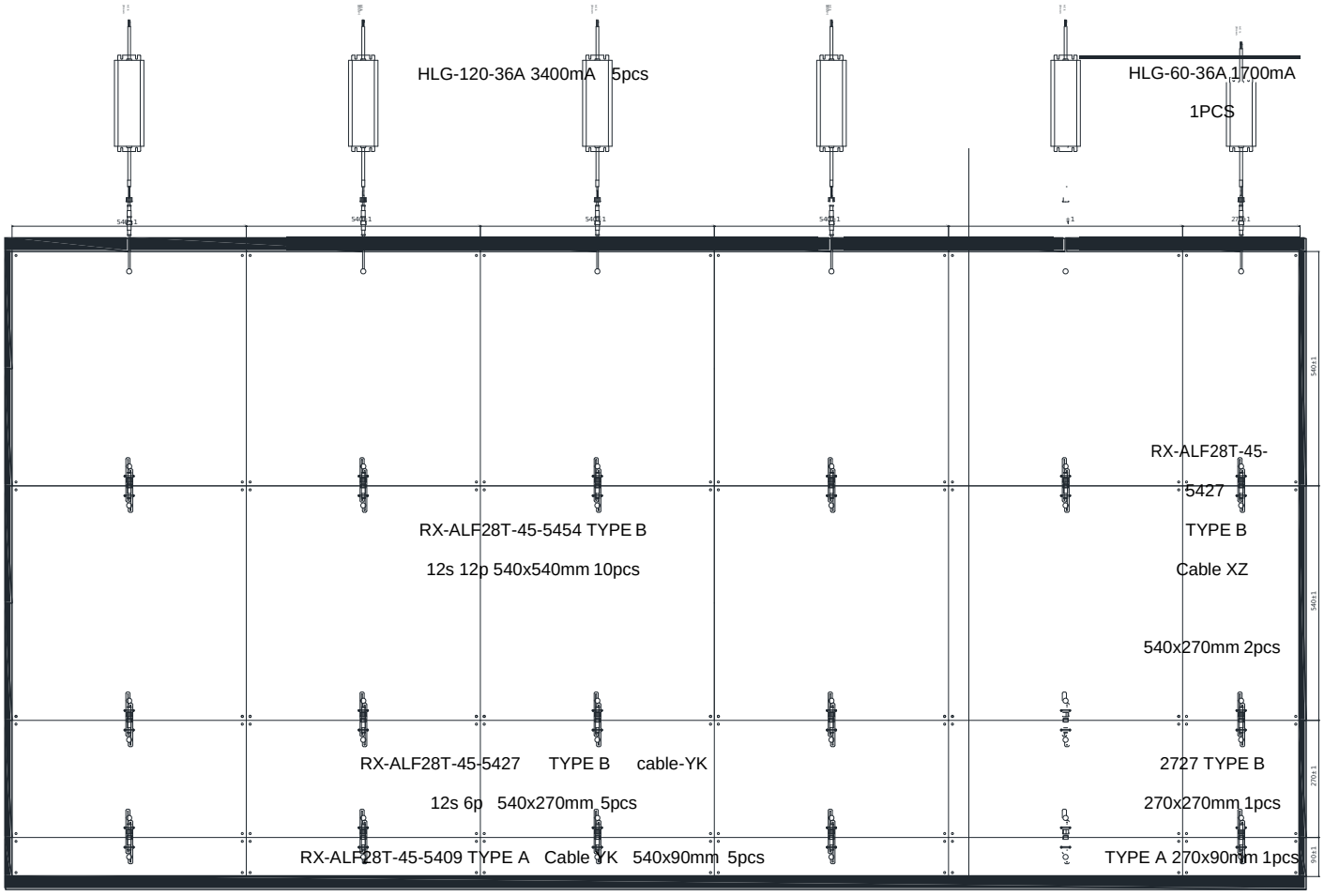


TYPE B CABLE-YK

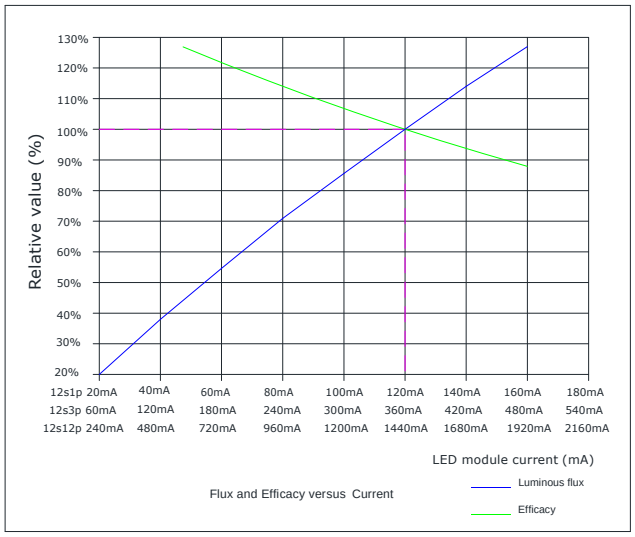
LED side cable

Back side cable

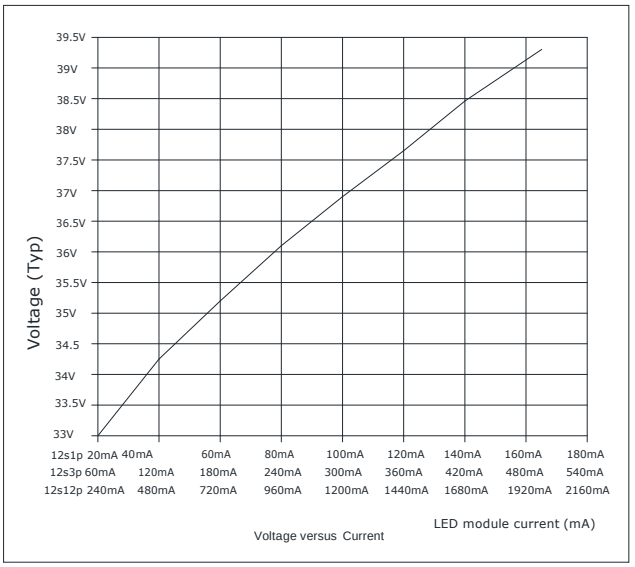
Design Case of 5'x10' (1500 x 3000 mm) luminaire DC/660W AC/720W



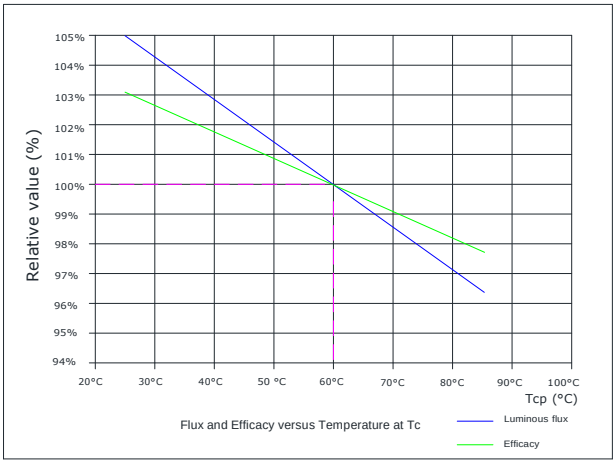
Flux and Efficacy versus Current



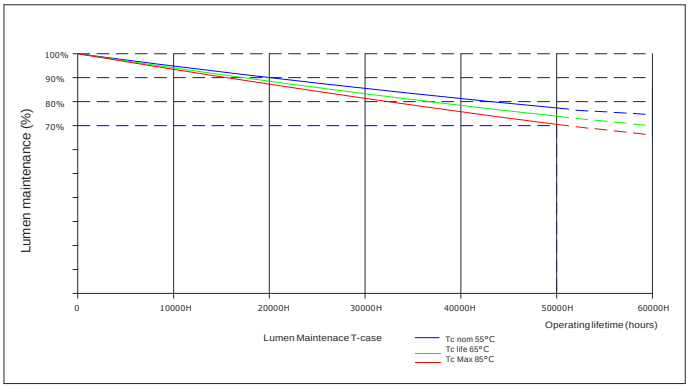
Voltage versus Current



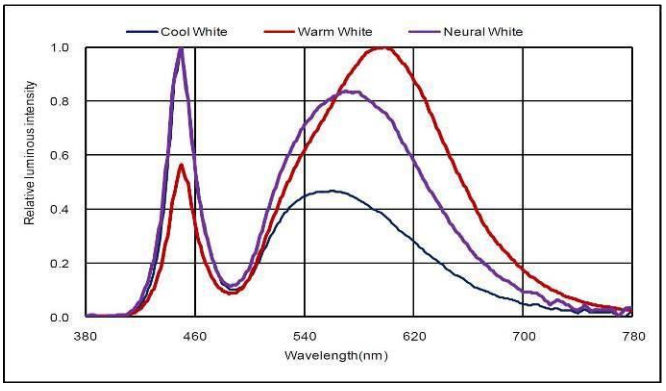
Flux and Efficacy versus Temperature at Tc



Lumen Maintenace T-case



Relative spectral emission



CAUTION: This product is installed by a professional engineering staff.

Safety Information

1. The LED panel itself and all its components may not be mechanically stressed.
2. Assembly must not damage or destroy conducting paths on the circuit board.
3. Installation of LED lamp (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
4. Correct electrical polarity needs to be observed. Wrong polarity may destroy the LED panel.
5. Parallel connection is highly recommended as safe electrical operation mode.
6. Serial connection is not recommended. Unbalanced voltage drop can cause hazardous overload and damage the LED panel.
7. Please ensure that the power supply of adapters power to operate the total load.
8. When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation points between strip and the mounting surface.
9. Pay attention to standard ESD precautions when installing the LED panel.
10. Damaged by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
11. Waterproof LED panel , please note waterproof wiring department
12. LED panel can't be used as support, you need fixed in the frame, fixed to the wall, otherwise, may cause deformation.