

# WK LED WATERPROOF BACKLIGHT PANELS

**Description: WK BACKLIGHT** series waterproof LED module; Ultra-Slim Light Box direct type light source - can be continuously stitching. With secondary optical 160° TV lens on LED, the emitting angle can be widened so that the light module presents excellent light uniformity. A variety of sizes interlocking and connectable module allows for variety of designs to be configured. Mainly used for lighting source backlight, large-scale backlights projects, Do your own energy-saving lighting project etc.



1. Large size LED module - Full Aluminum
2. Waterproof rating IP 68
3. A variety of sizes, the largest custom size 1080x540mm
4. High CRI >80 (Optional >90)
5. High efficiency 92Lm/W
6. 160° TV lens, presents excellent light uniformity
7. CV input DC24V(Optional 12V), Easy to expand installation
8. Warranty 3 years
9. CE RoHS FCC PSE

Model	Dimension Net weight	Luminous Flux & Power	Efficacy Typ	LED QTY 18V 0.5W LED	Comment
<b>BL-270270</b>	270x270x7.5mm 450g	740Lm 8W	93Lm/W	36pcs	Tcp 35 °C
<b>BL-540270</b>	540x270x7.5mm 900g	1480Lm 16W	92Lm/W	72pcs	Tcp 36 °C
<b>BL-540540</b>	540x540x7.5mm 1800g	2486Lm 28.6W	87Lm/W	144pcs	Tcp 36 °C

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

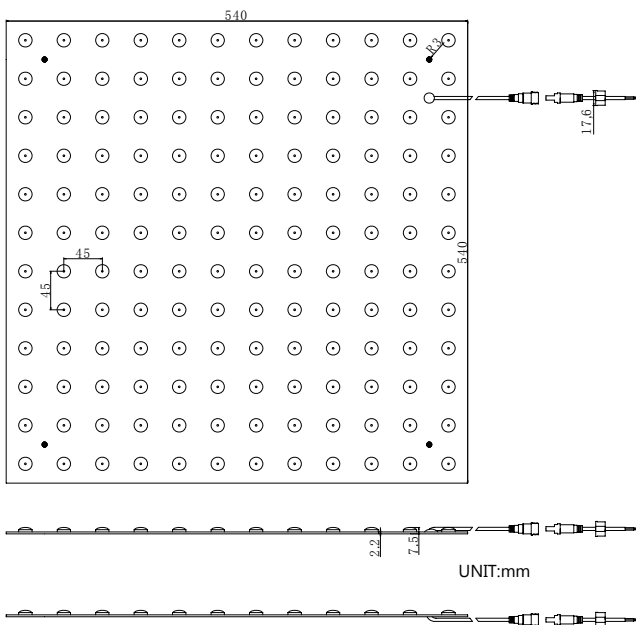
Operation Temperature: -30 °C ~ 70°C At the Tc point

Tolerance range for optical and electrical data: ±10 %.

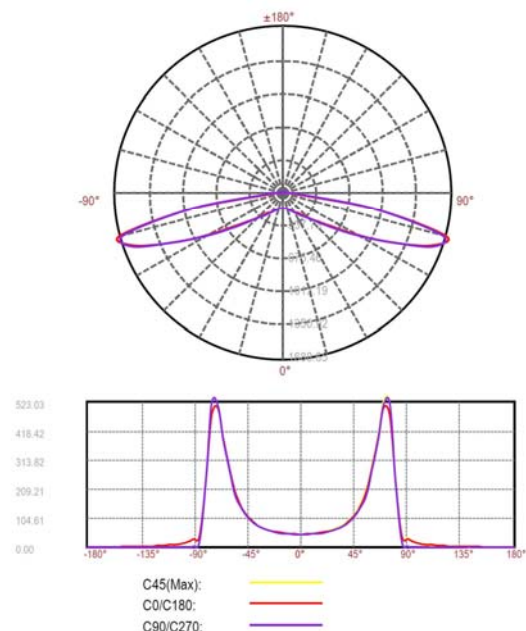
Lifetime: 50,000 hrs (Note: Tcp < 60 °C)

Test LED color temperature 5800-6250K, (WW2800~3200K 92% brightness ; NW3800~4200K 96% brightness)

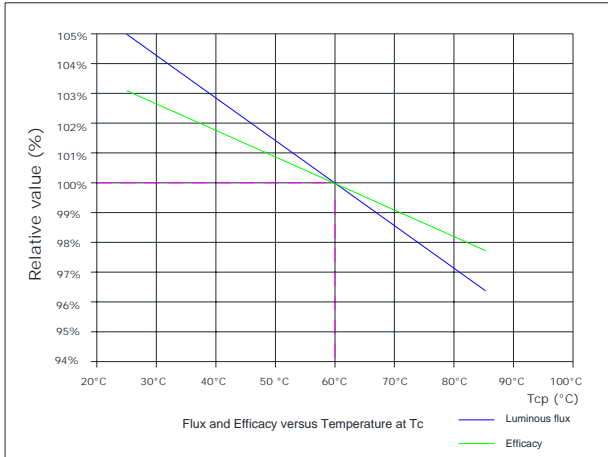
Dimension:



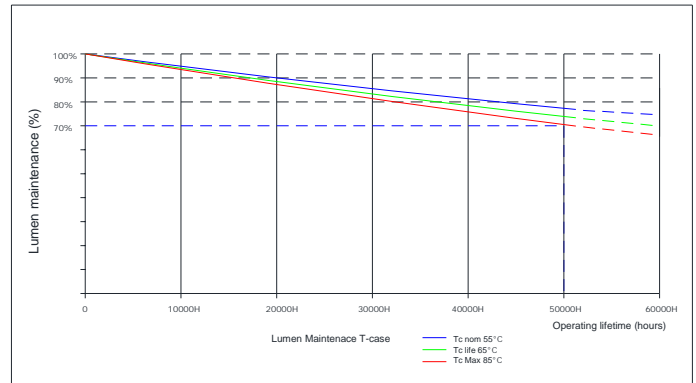
Light Distribution Curve:



## Flux and Efficacy versus Temperature at Tc



## Lumen Maintenance T-case



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.