WK LED

LED BackLight Sheet Panel

Structure

Ribbon LED Strip   LED Chip   Optical Acrylic Panel

5/16" (8 mm)

Integrated Heat Sink

Length Max. 118" (2997mm)

Width Max. 59" (1498mm)

Depth 5/16" (8mm)

Power lead:
The power cord can be located around the perimeter of the panel as required, subject to the configuration of the LEDs, or the back of the panel.
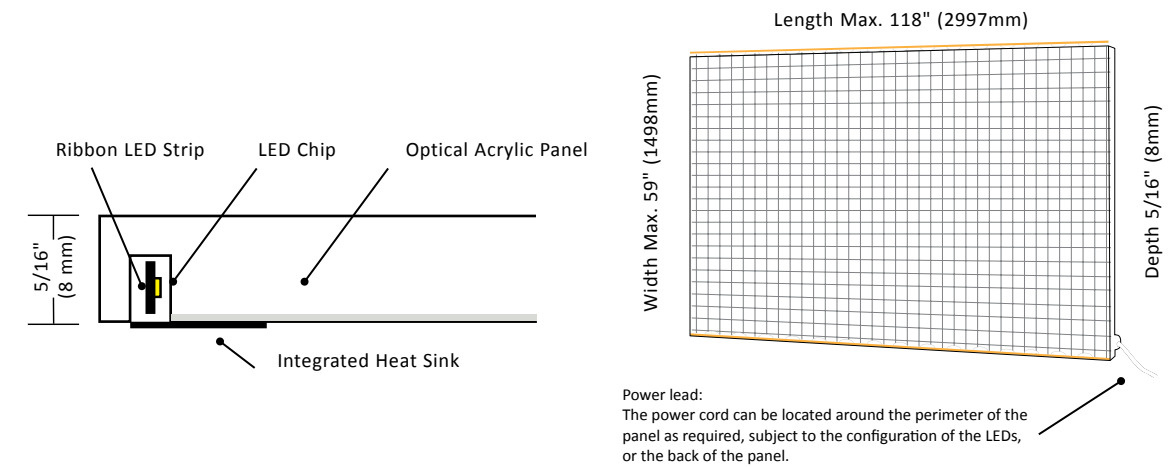
LED BackLight Sheet Panel is designed to emit a bright, even output of light across the entire surface of the panel.

Unlike traditional light panels, which have the light source mounted on the exterior of the LGP(Light Guide Plate).

LED BackLight Panel integrates high brightness LEDs and heat sink into our exclusive updated 3D V-cutting LGP which makes it possible to produce "frameless", rectangular or special custom shaped LED Light panels for various application needs.

Specification

Electrical				
Input Voltage	12 VDC or 24 VDC			
Power Consumption	4.0 Watts/ft (Standard)			
Wire Size	20 AWG 2 wire			
Wiring	Each panel must have direct connection to power supply. Do not wire panels in series			
Connector	2.1/5.5mm barrel plug. Standard 5' (1500mm), Optional 10' (3000mm)			
Certification	CE			
Physical				
Color Temperature	3000K	3500K	4100K	5300K	6300K
Mounting	Wall mounted with screws				
Operating Temperature	- 30 °c (- 22 °F) ~ + 40 °c (+ 104 °F)				
Environment	Dry location only				
Thickness	4mm, 6mm, 8mm				
Minimum Size	2"W x 2"L (50mm x 50mm)				
Maximum Size	59"W x 118"L (1499mm x 2997mm)				
Weight	1.95 lbs /sq. ft. (9.54 kg/sq. M)				

*Acrylic and other manufacturing components and methods may contribute to an expansion or contraction of sizes based on environmental or tooling factors
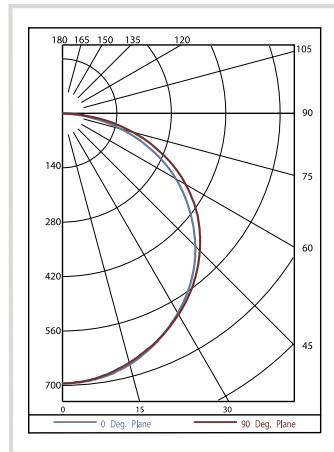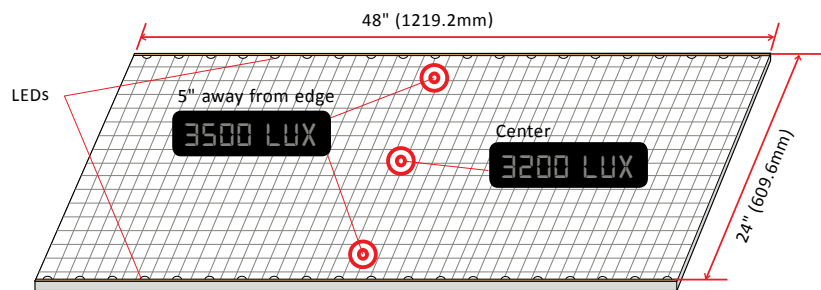Please allow a minimum of ± 1/8" (3.175mm) to compensate for any changes in the outside dimensions of this product.

Feature

- Available in custom sizes & shapes
- Can be used in "Frameless" Designs
- 3D V-cutting or Laserdotting technology
- High brightness(2,000-10,000 lux)
- Patented heat sink technology
  To maximize LED lifespan(50,000hours)
- Low power consumption
  (70% less than traditional fluorescent)
- Energy saving and maintenance free
- Superior consistent light quality
- 2-year waranty

LED BackLight Panel(Specification by size)

Size (inch)	Size (mm)	LED Strip	*Average Surface Brightness (Lx)	Power Consumption (W)
6 x 6	150 x 150	1 side	6,000	2.0
12 x 12	300 x 300	1 side	3,000	4.0
24 x 24	600 x 600	2 sides	3,200	15.0
36 x 36	900 x 900	2 sides	2,600	23.0
48 x 48	1200 x 1200	2 sides	2,200	30.0
48 x 96	1200 x 2400	2 sides	2,200	60.0
Ø 6	Ø 152	all around	19,000	5.8
Ø 12	Ø 300	all around	13,000	11.2
Ø 24	Ø 600	all around	5,400	24.0
Ø 36	Ø 900	all around	4,500	36.0
Ø 48	Ø 1200	all around	3,500	48.0

Typical Surface Brightness Measure

24'' x 48'' LED Light Panel Frameless with 5300K LEDs along 2 LONG sides(30W)

48" (1219.2mm)
LEDs
5" away from edge
3500 LUX
Center
3200 LUX
24" (609.6mm)

180 165 150 135 120 105
90
140 75
280 60
420 45
560
700
0 15 30
0 Deg. Plane   90 Deg. Plane

12'' x 12'' LED Backlight Panel with 5300K LEDs along 2 LONG sides(8W)

12" (304.8mm)
LEDs
4" away from edge
4600 LUX
Center
4560 LUX
12" (304.8mm)
3D V-Cut Light Guide Plate

48'' x 96'' LED Backlight panel with 5300K LEDs along 2 LONG sides(60W)

96" (2438.4mm)
LEDs
5" away from edge
2640 LUX
Center
2035 LUX
48" (1219.2mm)
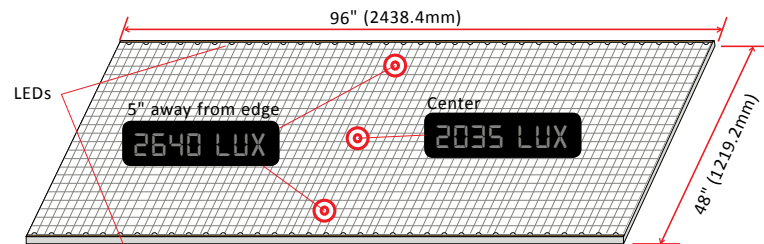
*Brightness readings are for reference only. Actual reading may differ for different LEDs,
LGPs or even different meters.

Typical Power Cord Exits

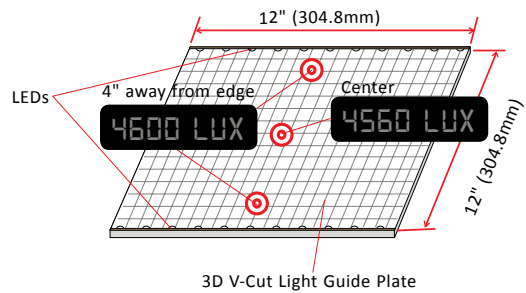| Standard 1	Standard 2
Power cord exits from short side (edge) corner (standard)	Power cord exits from the middle of each long side for LED Light Panel longer than 6 feet

Option 1	Option 2
Power cord exits from the back side of LED Light Panel	Recessed (notched) power cord exits