

LumiSheet

Day

LED Light Panel

CUSTOMIZABLE

- Available in custom sizes & shapes
- Can be used in "frameless" designs

BIGHT & EVEN ILLUMINATION

- 3D V-Cutting technology
- High brightness (2,000 10,000 LUX)
- Superior consistent light quality

LONG LIFESPAN

 Patented heat sink technology to maximize LED lifespan (70,000 hours)

ENERGY EFFICIENT

- Low power cwonsumption (70% less than fluorescent)
- Energy saving and maintenance free

WARRANTY

Advanced 3-year warranty



PERFECT BACKLIGHTING SOLUTION

LumiSheet™ 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), LumiSheet™ integrates high brightness LEDs and the heat sink into our exclusive 3D V-cutting LGP which makes it possible to produce "frameless", rectangular or special shaped LED light panels for various application needs.

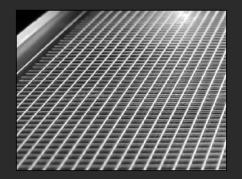
INTEGRATED HIGH QUALITY LEDS

LumiSheet™ integrates high quality 12V, constant voltage LEDs into the perimeter of the LumiSheet™ process allows the LEDs to conform to almost any



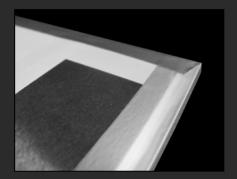
3D V-GROOVE LIGHT GUIDE PLATE (LGP)

LumiSheet™ utilizes crystal clear acrylic combined with a patented 3D V-groove etched grid pattern that provides even illumination to almost any shape imaginable.



INTEGRATED THERMAL MANAGEMENT

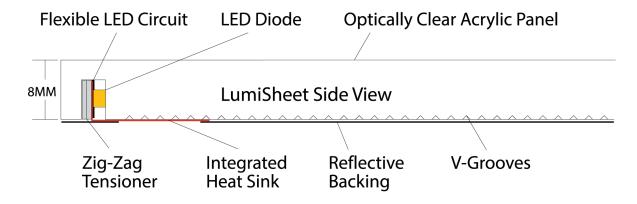
All LEDs create heat which is detrimental to their life which integrates the heat sink into the LGP that is easily conformable which allows for customizable



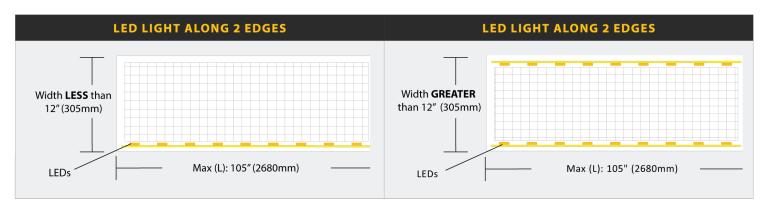


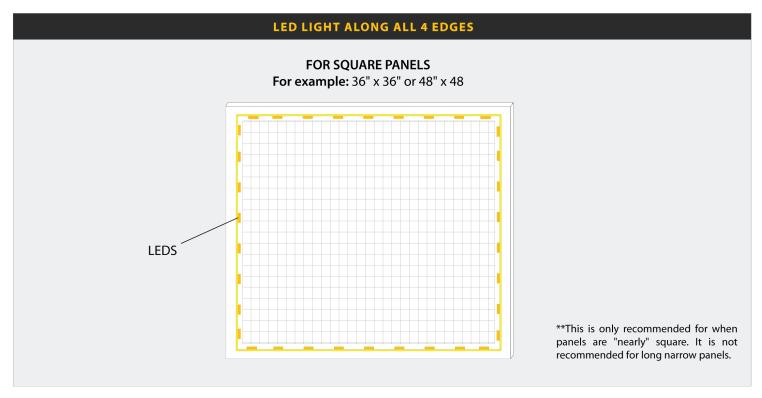


PROFILE OF LUMISHEET



LED LIGHT LOCATIONS

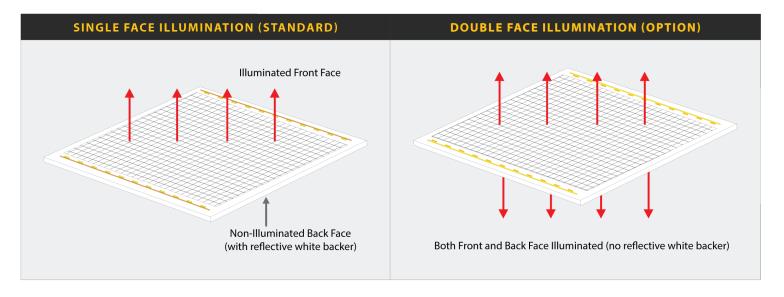






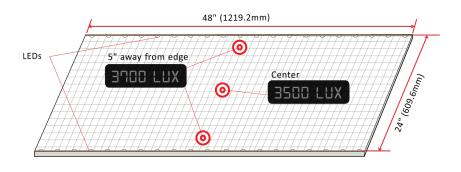


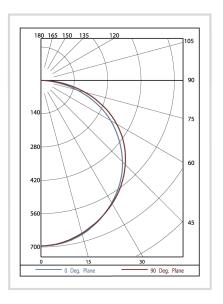
ILLUMINATED FACE OPTIONS



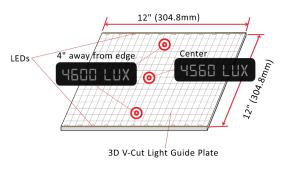
TYPICAL SURFACE BRIGHTNESS MEASURE

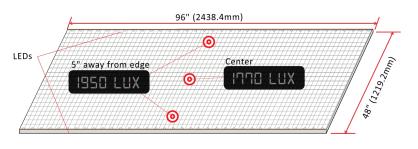
24" x 48" LumiSheet with high output 5300K LEDs lit along edges (40W)





12" x 12" panel with regular 5300K LED lit along 2 edges (8W) 48" x 96" LumiSheet with high output 5300K LEDs lit along 2 long edges (80W)





*Brightness readings are for reference only. Actual reading may differ for different LEDs, LGPs or even different meters.

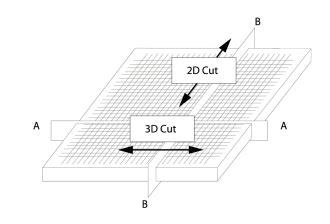




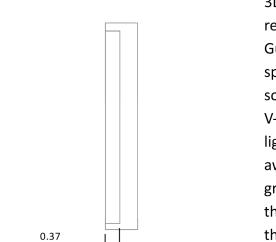
3D V-CUTTING TECHNOLOGY

Section B-B

A significant advantage to LumiSheet™ lies in the production of the Light Guide Plate (LGP). Sourced for its rigidity and light transmission properties, an optical grade PMMA acrylic is etched with multiple grooves using patented 3D V-cutting technology to create a uniform matrix. This etched matrix acts as a vehicle to transport light from the unit's embedded LEDs across the entire surface of the panel to deliver homogeneous illumination.



Section A-A 1 Side LED 2 Sides LED



3D V-cutting technology ensures that light is evenly reflected throughout the surface of the acrylic Light Guide Plate (LGP) by making grooves on the LGP at specific intervals according to the location of the light source and the direction of irradiation. The vertical V-grooves are widely spaced when they are close to the light source, but narrowly spaced when they are farther away from the light source. The horizontal V-grooves gradually grow wider and deeper as their distance from the light source increases. Therefore, the brightness of the front surface of the LGP is able to remain uniform.



SPECIFICATIONS

		ELEC.	TRICAL					
Input Voltage	12 Volt DC - Constant Voltage							
Power Consumption	4.0 Watts/ft (Standard LEDs)		5.0 Watts/ft (High Output LEDs) (Watts/ft djustable LEDs	4.5 Watts/ft s) (RGB LEDs)		
Wire Size	20 AWG 2 wire (Standard/HO LE		20 AWG 3 wire (White Adjustable LEDs)			22 AWG 4 wire (RGB LEDs)		
Wiring	Each panel mus	t have direc	e direct connection to power supply. Do not wire panels in series.					
*Connector	2.1/5.5mm barrel (Standard/HO LE		3 pin molex (White Adjustable LEDs)		rs)	No connector (RGB LEDs)		
Certification	UL / cUL (E334549)							
		PHY	SICAL					
Color Temperature		Neutral Whapprox. 410	· ·		White Adju		Color Adjustable **RGB	
Mounting Examples	Wall mounted with screws, Z-clips, U-channel, mirror clips or standoffs							
Operating Temperature	-30°C (-22°F) ~ +40 °C (+104 °F)zz							
Environment	Dry location (Standard)							
Thickness	***8MM (Standard), 4MM, 6MM and 10MM also available depending on application							
Minimum Size	2"W x 2"L x 5/16" D (50mm x 50mm x 8mm)							
Maximum Size	59"W x 118"L x 5/16"D (1499mm x 2997mm x 8mm)							
Weight	1.95 lbs/sq. ft.				9.54 kg/sq. M			
	STANDAR	D PLUG-II	N POWER AD	APTORS				
Power Adaptors	12V DC, 1A	, 12W, UL li	sted 12V Do		2V DC, 5A, 60	C, 5A, 60W UL class 2 listed		
Spider Cables	PL-2: 2-way long spider ca	able	PL-4: 4-way long spider ca		ole	PS-2 / PS-4 / PS-6 2/4/6-way short spi		
	STANDARD	HARDWI	RE POWER A	DAPTORS				
Power Adaptors	PA-60W-HW 60W 12V Hardwire power adaptor Input 110V AC ~ 240V AC			PA-150W-HW 150W 12V Hardwire power adaptor Input 110V AC ~ 240V AC				
Dimming & Controls	Refer to dimming & control options							
* Standard 5', Optional 10' **See I	RGB product line for more details ***Please consult an Evo-Lite™ sales engineer if a thickness other than 8MM is desired							
Color Temperature: Warm Wi	hite Neutral White		Pure / Cool White	White	Adjustable	Cole	or Adjustable	

Color Temperature:









3000K - 6500K



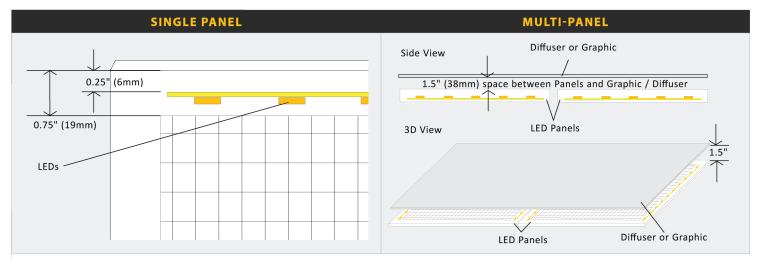
BRIGHTNESS & POWER CONSUMPTION REFERENCE

SIZE (INCH)	SIZE (MM)	LED STRIP	*AVERAGE SURFACE BRIGHTNESS (LUX)	POWER CONSUMPTION (W)			
6 x 6	150 x 150	1 side	5,000 (DL)	2.0			
12 x 12	300 x 300	1 side	3,500 (DL)	4.0			
24 x 24	600 x 600	2 sides	2,800 (DL)	15.0			
36 x 36	900 x 900	2 sides	2,000 (DL)	23.0			
48 x 48	1200 x 1200	2 sides	1,800 (HO)	40.0			
48 x 96	1200 x 2400	2 sides	1,800 (HO)	80.0			
Ø 6	Ø 150	all around	17,000 (DL)	5.8			
Ø 12	Ø 300	all around	11,000 (DL)	11.2			
Ø 24	Ø 600	all around	4,500 (DL)	24.0			
Ø 36	Ø 900	all around	3,000 (DL)	36.0			
Ø 48	Ø 1200	all around	2,200 (DL)	48.0			
*Brightness data was measured from Jan. to Aug., 2009. "DL" denotes regular LEDs. "HO" denoted high output LEDs.							





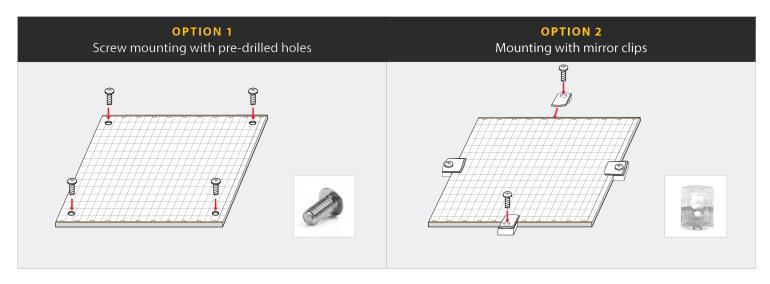
INSTALLATION TIPS

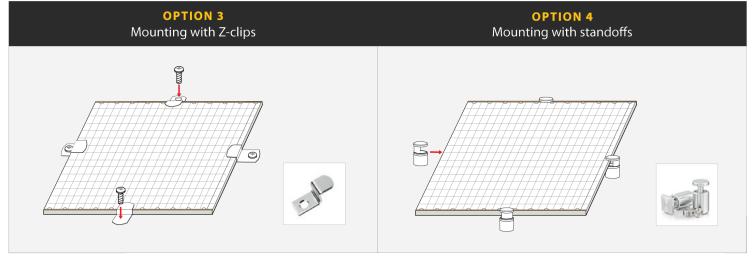


LEDs are typically installed along a groove 0.25" away from the edge. The hot spots created by the LEDs can be managed in many ways. We recommend testing the material to be backlit in order to determine if diffusion is necessary.

When placing panels side by side to create a larger illuminated area, you may see a bright line (LED illuminated edge) or dark line (non-illuminated edge) where they meet. These areas show differently depending on the overlay material being used. We recommend testing the material to be backlit in order to determine if additional diffusion or space is necessary.

SURFACE MOUNTING EXAMPLES

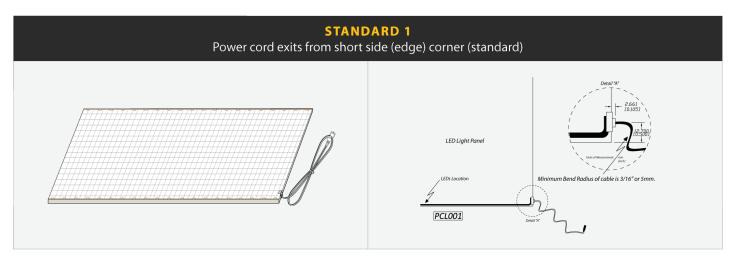


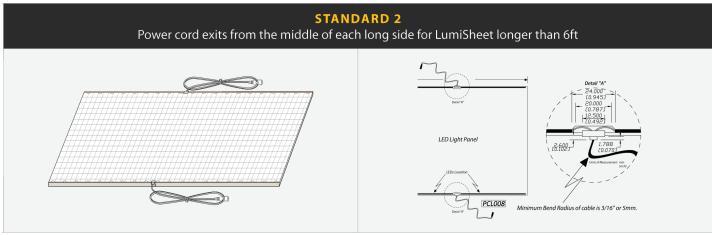


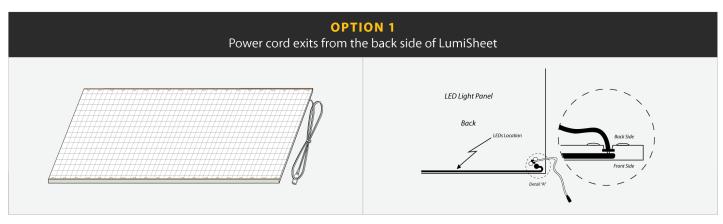


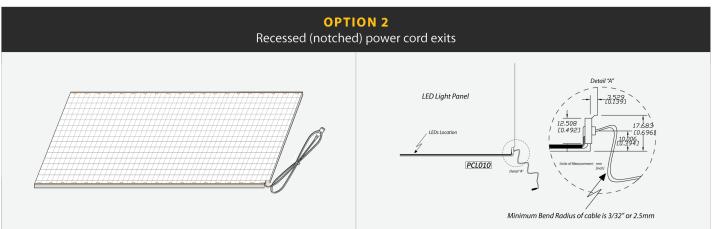


TYPICAL POWER EXITS















Day One Lighting, LLC

440 Tall Pines Rd., Suite D West Palm Beach, FL 33413

Main Phone: 561-318-5424

E-mail: info@dayonelighting.com

URL: www.dayonelighting.com

TERMS & CONDITIONS

Be sure to familiarize yourself with Day One Lighting's <u>Terms & Conditions</u>. By ordering from Day One Lighting, the purchaser agrees to all <u>Terms & Conditions</u>.



LumiSheet™ PATENTS

USA: 7473022 CANADA: 2,626,448 JAPAN: 4427528

CHINA: ZL 200610085027.0
TAIWAN: 312899
SINGAPORE: 141901
SOUTH AFRICA: 2008/03676
EUROPEAN UNION: 1,780,584
(Germany, UK, France, Italy, Spain,
The Netherlands, Belgium, Sweden,
Austria, Poland, Denmark, Greece,
Ireland, Finland, Portugal, Czech
Republic, Hungary, Romania, Slovakia,
Bulgaria, Switzerland, Luxembourg,

V-CUTTER FOR AN LCD LIGHT GUIDE PANEL

USA: 6619175 JAPAN: 3500466 TAIWAN: 155175

A LIGHT GUIDE PANEL WITH SALANT LIGHT GUIDING PARTS

USA: US 7,018,087 B2

PIN KIT FOR V-CUTTER

KOREA: 10-0552589, 10-0557738, 10-0557741, 0540055, 0540053, 10-0772921, 10-0716543, 10-0565890, 10-0753963, 10-0643604,

10-0736656, 10-0748074, 10-0748073, 10-0762741,

USA: 6792842 JAPAN: 3463060 EU: 1335817

CHINA: ZL 01818623.8 TAIWAN: 163820





Slovenia, Turkey, Latvia)