


ELP-L LIGHT PANEL SPECIFICATIONS

LED BASICS	LED Board	Power Consumption	Lumen Output	LED Efficacy	CRI	CCT Tolerance					
	3727	6.0 w/sq. ft. [64.6w/sq. m]	595 lm/sq. ft. ¹ [6405 lm/sq. m]	176 lm/w	95+	All LEDs binned to within 2 MacAdam Ellipse CCT tolerance of ± 60°K					
	3718	4.1 w/sq. ft. [44.1w/sq. m]	410 lm/sq. ft. ¹ [4413 lm/sq. m]	176 lm/w	95+	All LEDs binned to within 2 MacAdam Ellipse CCT tolerance of ± 60°K					
	3709	2.1 w/sq. ft. [22.6w/sq. m]	205 lm/sq. ft. ¹ [2206 lm/sq. m]	176 lm/w	95+	All LEDs binned to within 2 MacAdam Ellipse CCT tolerance of ± 60°K					
	2727	5.95 w/sq. ft. [64.0w/sq. m]	600 lm/sq. ft. ¹ [6458 lm/sq. m]	176 lm/w	83	All LEDs binned to within 2 MacAdam Ellipse CCT tolerance of ± 60°K					
	2718	4.0 w/sq. ft. [43.0w/sq. m]	420 lm/sq. ft. ¹ [4521 lm/sq. m]	176 lm/w	83	All LEDs binned to within 2 MacAdam Ellipse CCT tolerance of ± 60°K					
	2709	2.1 w/sq. ft. [22.6w/sq. m]	220 lm/sq. ft. ¹ [2368 lm/sq. m]	176 lm/w	83	All LEDs binned to within 2 MacAdam Ellipse CCT tolerance of ± 60°K					
¹ Based on 3500K Color Temperature											
OPTICAL	CCT:	2000K	2200K	2500K	2700K	3000K	3500K	4000K	4500K	5000K	
	Lumen Output: ² (2' x 2' Panel) ²	1618 lm	1761 lm	1951 lm	2284 lm	2380 lm	2380 lm	2380 lm	2404 lm	2618 lm	
	² Based on 2727 LED Board Only										
	Lumen Output Conversion:	0.68	0.74	0.82	0.96	1.0	1.0	1.0	1.01	1.1	
	Beam Angle/Field Angle:	90° Beam Angle/120° Field Angle									
EFFICACY	CRI:	83 (Standard) or 95+ (HI CRI)									
	CCT Tolerance:	2 MacAdam Ellipse ± 60K									
	LED Efficacy:	176 lm/w (Based on 3500K CCT)									
Fixture Efficacy:	100 lm/w										
Luminaire Efficacy:	90 lm/w										
MECHANICAL	Size Options:	Min: 1.7" x 12" [43.18mm x 304.8mm]				Max: 60" x 120" [1524mm x 3048mm]					
	LED Spacing:	Standard - 1.7" x 1.7" [43.18mm x 43.18mm]									
	Panel Thickness:	5/8" Standard [15.5mm] (UL Only)					3/8" Compact [9.5mm] (UL + CE)				
	Material:	Expanded PVC - White or Custom Colors with Frosted Acrylic Lens Cover					ABS Plastic - White or Custom Colors with Frosted Acrylic Lens Cover				
	Operating Ambient Temp.:	-22° to 104° F			[-30° to 40° C]						
	Humidity:	90% RH Non-Condensing									
	Weight:	3.25 lbs./sq. ft. [15.9 k/sq. m] (Standard Thickness)									
	Mounting:	Through Bolt in Pre-drilled Holes, T-Bar, Aircraft Cable									
Diffusion:	Integrated Polycarbonate Layer, Optional Stand-off Diffuser										
ELECTRICAL	Driver Type:	Constant Voltage, Class 2 UL Listed									
	Input Voltage:	24V DC									
	Applied LED:	Nichia 757g									
	Power Consumption:	Up to 6.0 w/sq. ft. [64.6 w/sq. m]									
	Dimming:	MLV, ELV, 0-10V, DALI, DMX									
	Max Wattage per Tail:	96w									
	Feed Wire:	96" [2.44m] of Non Plenum-Rated, 16 AWG Wire [1.29mm] No Connector; Plenum-Rated Wiring Optional									
LISTINGS	UL [®] UL 2108 & 8750; CE Marked; RoHs Compliant (if specified); LM79, LM80; UL Listed Dry/Damp										
	The EU's Restriction of Hazardous Substances Directive (RoHS) restricts the use of six hazardous substances* in electrical and electronic equipment (* Lead (Pb), Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls and Polybrominated diphenyl ether (PBDE)).										
LIFE & WARRANTY	100,000 HR lifetime (T _a = -25°C to 40°C; T _c max 75°C); 5 year limited warranty										

ELP-L LIGHT PANEL

EssentialLEDs® **ELP-L Light Panel** is the ideal product for backlighting materials such as Acrylic, Frosted Glass or Onyx, and for Stretched Fabric Ceilings where the plenum space exceeds 5".

ELP-L can be fabricated in any custom shape or size, with three different lumen/wattage options, in Standard (83 CRI) or Hi-CRI (95+ CRI). Available in nine single-color CCTs (2000K, 2200K, 2500K, 2700K, 3000K, 3500K, 4000K, 4500K and 5000K) and three dual-color options (2500K/4500K, 3000K/4500K, 3500K/4500K). Dual color can create variable mood environments by adjusting color temperature (also known as "color tuning"); new control options enable gradual CCT transitions along with smooth dimming down to zero.

Dual Color panels are built with two sets of LEDs - one of each CCT at each light point. The CCT of the light output is shifted by alternately dimming or increasing the power to the two sets of LEDs. The lumen outputs and wattage listed above apply to one set of LEDs only; with both sets of LEDs at full brightness, lumen output and wattage would be doubled.

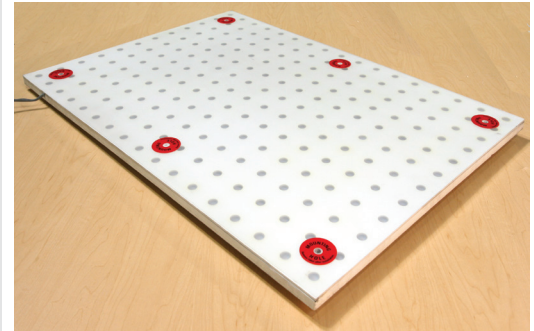
Visit the VLT website for application photos & most recent IES files, LM79 & LM80 reports.

MADE IN USA 

ELP-L LIGHT PANEL

IP20 | This highly customizable product is ideal for backlighting applications (UL Listed dry/damp). Features Nichia LEDs with either Standard 27xx (83 CRI) or HI CRI 37xx (95+ CRI) in Wattages from 2.0 w/sq. ft. to 6.0 w/sq. ft. and Outputs from 205 lm/sq. ft. to 600 lm/sq. ft. LEDs are arranged in a 1.7" x 1.7" [17.78mm x 17.78mm] grid with one pre-drilled mounting hole every 16" [406.4mm] on center. Standard finished thickness is 5/8" [15.9mm]. Available color temperatures of 2000K, 2200K, 2500K, 2700K, 3000K, 3500K, 4000K, 4500K and 5000K. All LEDs binned to within 2 MacAdam Ellipse CCT tolerance of ± 60°K.

To order standard shapes (squares, rectangles) and standard LED placements, use the configurator below. For custom shapes, custom LED placements, or custom mounting hole placements, please contact the VLT factory.



Note: Square or rectangular panels sizes should be rounded down to the closest even multiple of 1.7" (for example, 23.8" instead of 24"). Additional fractions will not add LEDs or lumen output to the panel. ELP-L panels cannot be field cut to adjust fit, so rounding down the overall size of the panels can provide valuable "wiggle room" at installation sites where real world construction is not as exact as the original drawing.

ELP - L -

LED		CCT		Panel Width (in.)	Options & Accessories
3727	595 lm/sq.ft, 6.0 w/sq. ft, 95+ CRI	20	2000°K	Up to 60" [3048mm]	UL UL Listed
3718	410 lm/sq.ft, 4.1 w/sq. ft, 95+ CRI	22	2200°K	Panel Height (in.) Up to 120" [1524mm]	CE CE Marked (RoHS)
3709	205 lm/sq.ft, 2.1 w/sq. ft, 95+ CRI	25	2500°K		CP 3/8" [9.5mm] Compact Substrate ¹ (instead of standard 5/8" [15.9mm])
2727	600 lm/sq. ft, 5.95 w/sq. ft, 83 CRI	27	2700°K	Wire Length (in.)	WE Wire Exit Location (WE2 standard)
2718	420 lm/sq. ft, 4.0 w/sq. ft, 83 CRI	30	3000°K	96" [2.44m] Standard (Option up to 30' [9.14m])	PR Plenum-Rated Wiring
2709	220 lm/sq. ft, 2.1 w/sq. ft, 83 CRI	35	3500°K	LED Spacing	DF Diffuser Panel
		40	4000°K	F 1.7" x 1.7" [43.2mm x 43.2mm]	SC Substrate Color
		45	4500°K		SO Stand-offs (for mounting of both Light Panel and diffuser panel)
		50	5000°K		SG Suspension Grips (hardware for suspended applications)
		25/45	2500°K / 4500°K		AF Aluminum Framing (adds rigidity for larger panels)
		30/45	3000°K / 4500°K		
		35/45	3500°K / 4500°K		

Standard HI CRI

¹ Available only for wall-mount applications in sizes less than 24" x 24" [609.6mm x 609.6mm]