

ELP-G LIGHT PANEL SPECIFICATIONS

LED BASICS	LED Board	Power Consumption	Lumen Output	LED Efficacy	CRI	CCT Tolerance					
	1704	4.0 w/sq. ft ¹ [43.0w/sq. m]	560 lm/sq. ft ² [6025 lm/sq. m]	176 lm/w	83	All LEDs Binned to within 2 MacAdam Ellipse CCT tolerance of ± 60°K					
¹ Does not include driver losses		² Based on 3500K Color Temperature									
OPTICAL	CCT:	2000K	2200K	2500K	2700K	3000K	3500K	4000K	4500K	5000K	
	Lumen Output:* (2' x 2' Panel)*	1523 lm	1657 lm	1836 lm	2150 lm	2240 lm	2240 lm	2240 lm	2262 lm	2464lm	
	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:	116° Beam Angle/140° Field Angle									
	CRI:	83									
EFFICACY	LED Efficacy:	176 lm/w (Based on 4000K CCT)									
	Fixture Efficacy:	140 lm/w									
	Luminaire Efficacy:	130 lm/w									
MECHANICAL	Size Options:	Min: 3" x 3" [46.2mm x 76.2mm]				Max: 60" x 120" [1524mm x 3048mm]					
	LED Spacing:	1" x 1" [25.4mm x 25.4mm] (nominal)									
	Panel Thickness:	5/8" Standard [15.5mm] (UL Only)									
	Material:	Expanded PVC - White or Custom Colors with Clear Acrylic Protective Cover <small>(Remove after installation)</small>									
	Operating Ambient Temp.:	-22° to 104° F				[-30° to 40° C]					
	Humidity:	90% RH Non-Condensing									
	Weight:	2.66 lbs/sq. ft [13 kg/sq. m] with removable cover 1.96 lbs/sq. ft [9.6 kg/sq. m] without									
	Mounting:	Through Bolt in Pre-drilled Holes									
ELECTRICAL	Diffusion:	None									
	Driver Type:	Constant Voltage									
	Input Voltage:	24V DC									
	Applied LED:	Nichia 757g									
	Power Consumption:	4.0w/sq. ft. [43.0w/sq. m]									
	Dimming:	MLV, ELV, 0-10V, DALI, DMX									
	Max Wattage per Tail:	96w									
LISTINGS	Feed Wire:	96" [2.44m] of Non Plenum-Rated, 18 AWG Wire [1.02mm] No Connector; Plenum-Rated Wiring Optional									
	UL US UL 2108 & 8750; LM79, LM80 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-G LIGHT PANEL

EssentialLEDs® **ELP-G Light Panel** is a specialty backlighting product developed to provide bright and even backlighting for particularly demanding applications, including:

- Stretched Fabric Ceilings
- High Efficacy Needs
- Minimal Cavity Space

ELP-G features on-board power supply regulation on each individual ELP-G module, allowing panels to achieve the very high efficiency level of 140 lumens per watt (560 lumens per square foot*).

ELP-G can be fabricated in all shapes and sizes. It is dimmable and available in nine color temperatures (2000K, 2200K, 2500K, 2700K, 3000K, 3500K, 4000K, 4500K and 5000K) with a CRI of 83.

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

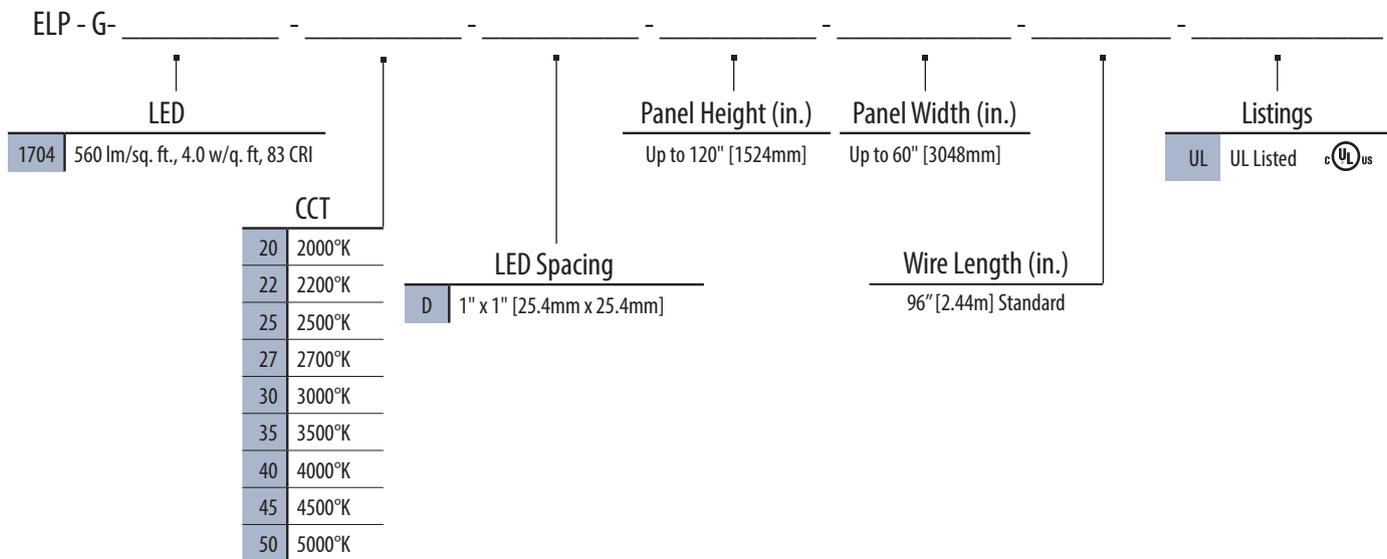
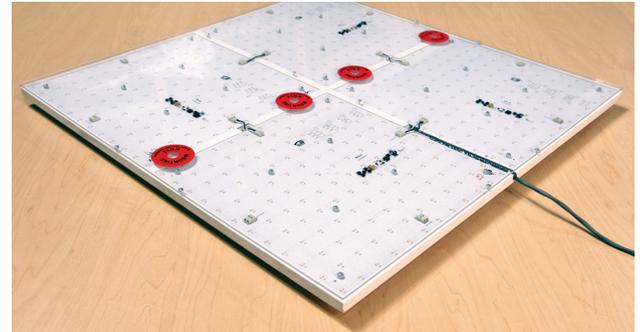
MADE IN USA 

ELP-G LIGHT PANEL

IP20 | This product is ideal for backlighting stretched fabric ceilings in dry locations. Includes Nichia LEDs (560 lm/sq.ft., 4.0 w/sq.ft., 83CRI) arranged in a 1"x1" (nominal) 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.

Edge to Edge: due to ELP-G's minimum LED module size of 3"x 3", please specify panel heights and widths divisible by 3 to achieve edge to edge LEDs.



Standard **ELP-G** modules are rectilinear, but angled and round shapes can also be evenly backlit.

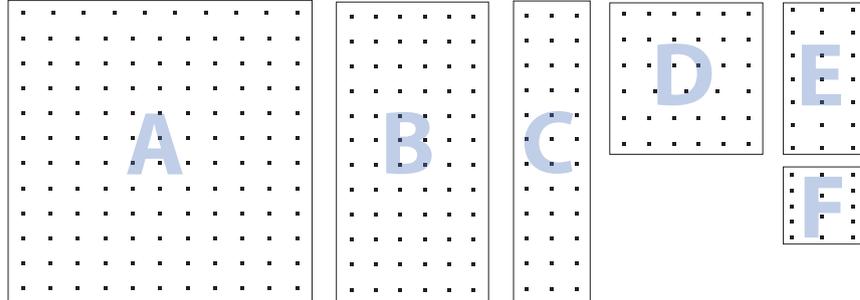




ELP-G MODULES FOR DIY INSTALLATION

Individual ELP-G modules with 1" x 1" LED spacing can be purchased for mounting directly into your millwork or displays. All specifications and color temperature options are available. These versatile lighting units are offered in two versions, **Tiles**, which are pre-mounted onto 5/8" substrate, or LED Board only. Please note size difference between the two versions.

Module Sizes:		
	ELP-G/T Tiles	ELP-G/B Boards
A	12" x 12"	11.5" x 11.5"
B	12" x 6"	11.5" x 5.5"
C	12" x 3"	11.5" x 2.5"
D	6" x 6"	5.5" x 5.5"
E	6" x 3"	5.5" x 2.5"
F	3" x 3"	2.5" x 2.5"



IP20 | Tiles: these LED Tiles are mounted onto a 5/8" substrate with a 1/4" margin all around. ELP-G/T modules can be butted up against each other and will automatically maintain perfect spacing for even light output in any arrangement you desire. Features Nichia 757g LEDs (560 lm/sq. ft., 4.0 w/sq. ft., 83 CRI) arranged in a 1"x1" (nominal) grid. Available color temperatures of 2000K, 2200K, 2500K, 2700K, 3000K, 3500K, 4000K, 4500K. All LEDs binned to within 2 MacAdam Ellipse CCT tolerance of $\pm 60^\circ\text{K}$. Each tile ships with a protective cover which must be removed after installation. Includes 2" interconnect wires for daisy-chaining tiles together. Mix and match from the 6 module sizes below to configure your custom lighting solution.



ELP-G/T - 1704 - _____ - _____ - _____

CCT		Module Size		Listings	
20	2000°K	1212	12" x 12" (4.0w)	UL	UL Listed cULus
22	2200°K	1206	12" x 6" (2.0w)		
25	2500°K	1203	12" x 3" (1.0w)		
27	2700°K	0606	6" x 6" (1.0w)		
30	3000°K	0603	6" x 3" (0.6w)		
35	3500°K	0303	3" x 3" (0.6w)		
40	4000°K				
45	4500°K				
50	5000°K				

IP20 | Boards: these LED boards consist of the LED Board ONLY with no backing material or preset outer spacing margin. Features 757g Nichia LEDs (560 lm/sq.ft., 4.0 w/sq.ft., 83 CRI) arranged in a 1"x1" (nominal) grid. 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 $\pm 60^\circ\text{K}$. No protective cover provided. Includes 2" interconnect wires for daisy-chaining tiles together. Mix and match from the 6 module sizes below to configure your custom lighting solution.



ELP-G/B - 1704 - _____ - _____ - _____

CCT		Module Size		Listings	
20	2000°K	1212	11.5" x 11.5" (4.0w)	UL	UL Listed cULus
22	2200°K	1206	11.5" x 5.5" (2.0w)	CE	CE Marked CE
25	2500°K	1203	11.5" x 2.5" (1.0w)		
27	2700°K	0606	5.5" x 5.5" (1.0w)		
30	3000°K	0603	5.5" x 2.5" (0.6w)		
35	3500°K	0303	2.5" x 2.5" (0.6w)		
40	4000°K				
45	4500°K				
50	5000°K				