

CUSTOMIZABLE BACKLYTE

Perfect for back lighting advertisements or translucent panels like onyx, stone and resin panels, our Customizable BackLytes can be cut into virtually any shape. They're lightweight with even light spread and fully customizable. Starting with a sheet of PMMA acrylic, we cut your custom shape on a CNC-controlled machine, then embed our LEDs directly into the perimeter of the panel and laminate it with a prismatic reflector, providing even surface light no matter the size.

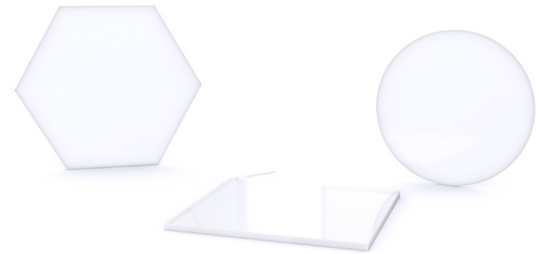
- Manufactured to custom geometric shapes and sizes
- Static White, Static Color models are constant current
- RGB and Variable White models are 24V constant voltage and can be used with any of our 24V electronic drivers plus DMX control
- Thin profile: 0.52 in. (13.2 mm)
- Lightweight
- Lead time varies depending on size
- 3-year warranty

Applications:

Commercial
Entertainment
Healthcare

Hospitality
Museums
Public Spaces

Residential
Retail



RoHS IP20

ORDERING GUIDE

Category	Color Temperatures & Colors			Diffusion	Area in Square feet
RBBL					
RBBL - Customizable BackLyte	24 - 2400K	R - Red	RGB - RGB	C - Clear	Area of BackLyte in square feet
	27 - 2700K	A - Amber	RGBW - RGBW	M - Milky	
	30 - 3000K	G - Green	RGBA - RGBA		
	35 - 3500K	B - Blue	VW - VW		
	41 - 4100K	V - Violet			
	60 - 6000K				

AVAILABLE COLOR TEMPERATURES & COLORS



SPECIFICATIONS/ DIMENSIONS / ACCESSORIES/ USAGE GUIDELINES

SPECIFICATIONS	CUSTOMIZABLE BACKLYTE
Operating Voltage	Static White and Static Color Models are constant current and input depends on size. Color changing models are 24 VDC input.
Power Consumption	Static White: 4 W per linear foot along the perimeter / 13 W per linear meter along the perimeter Variable White: 6 W per linear foot along the perimeter / 19.7 W per linear meter along the perimeter (all LEDs on) RGBW and RGBA: 5.5 W per linear foot along the perimeter / 18 W per linear meter along the perimeter (all LEDs on)
Protection Rating	IP20
Lumen Output	Static White: 220 lm per linear foot along the perimeter / 720 lm per linear meter along the perimeter Variable White: 240 lm per linear foot along the perimeter / 790 lm per linear meter along the perimeter (all LEDs on) RGBW: 154 lm per linear foot along the perimeter / 505 lm per linear meter along the perimeter (all LEDs on) RGBA: 82 lm per linear foot along the perimeter / 270 lm per linear meter along the perimeter (all LEDs on)
Lumens per Watt	Static White: 55 lm/W Variable White: 40 lm/W (all LEDs on) RGBW: 28 lm/W (all LEDs on) RGBA: 15 lm/W (all LEDs on)
Dimming	Static White & Static Colors: 0-10 Volt Variable White: 0-10V , DMX RGB, RGBW, RGBA: DMX
Ambient Temperature	-40 — 70 °C (-40 — 158 °F)
Color Temperatures / Colors	2400K, 2700K, 3000K, 3500K, 4100K, 6000K, RGB, RGBW, RGBA, VW, Red, Amber, Green, Blue, Violet
Lamp Life	50,000 Hours
CRI (White LEDs)	90+ CRI
Connector Types	Bare end wire, 2-conductor IP20 connectors, 5-pin IP65 connectors
Warranty	3-year warranty
Weight	2 lbs. 6.6 oz per sq ft / 1.09 kg per sq ft

DIMENSIONS	CUSTOMIZABLE BACKLYTE
	
Thickness	0.52 in. (13.2 mm)
Length	Minimum: 0.78 in. (2 cm), Maximum: 51.2 in. (130 cm)
Width	Minimum: 0.78 in. (2 cm), Maximum: 94.5 in. (240 cm)
Border Width	0.63 in. (16 mm)

USAGE GUIDELINES

- Use with non-Acolyte supplied drivers and interfaces is not supported or warranted.
- We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.
- This product is frameless and is designed to be installed behind translucent products or built into a frame. Because it is a custom product and each installation is different, we do not supply mounting hardware for this product. It can be used with mirror or z-clips, or built into a custom frame.

Acolyte does not warrant or represent that this information is free from errors or omission. The information may change without notice and Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.

AVAILABLE DRIVERS

	FOR STATIC WHITE MODELS		
	0-10V 1% DIMMABLE 25W DRIVER	0-10V 1% DIMMABLE 50W DRIVER	0-10V 5% DIMMABLE 95W DRIVER
			
Part Number	DRVCC25SS277010	DRVCC50SS277010	DRVCC95SS277010
Compatible Dimming	0-10 V	0-10 V	0-10 V
Output Voltage (DC)	27 - 54 V	27 - 54 V	20 - 54 V
Output Wattage	25 W	50 W	95 W
Output Current	0.1 - 0.7 A	0.1 - 1.4 A	0.1 - 2.75 A
Input Voltage Range (VAC)	120 - 277 VAC	120 - 277 VAC	120 - 277 VAC
Input Current (A)	0.25 A (120 VAC) / 0.11 (277 VAC)	0.48 A (120 VAC) / 0.21 (277 VAC)	0.89 A (120 VAC) / 0.38 (277 VAC)
Input Frequency	50 / 60Hz	50 / 60Hz	50 / 60Hz
Max Input Power (W)	31 W	58 W	110 W
Efficiency @ Max Load	83 (120 VAC) / 85 (277 VAC)	86 (120 VAC) / 88 (277 VAC)	88 (120 VAC) / 89 (277 VAC)
Max Input Current	0.25 A	0.48 A	0.89 A
THD @ Max Load	< 10% (120 VAC) / < 15% (277 VAC)	< 10% (120 VAC) / < 15% (277 VAC)	< 10% (120 VAC) / < 15% (277 VAC)
Power Factor @ Max Load	> 0.95	> 0.95	> 0.95
Surge Protection (Combi-Wave, KV)	2.5	2.5	6
Expected Life Time	50,000 hours (< 149 °F/65 °C)	50,000 hours (< 149 °F/65 °C)	50,000 hours (< 149 °F/65 °C)
Operating Temperature	-4 — 122 °F (-20 — 50 °C)	-4 — 122 °F (-20 — 50 °C)	-40 — 131 °F (-40 — 55 °C)
Safety Standards	UL 8750, UL991, CSA250.13-14, C22.2 No. 0.8-12, CSA Class P, ETL Class P, UL 2043 Plenum Rating	UL 8750, UL 991, CSA250.13-14, C22.2 No. 0.8-12, CSA Class P, ETL Class P, UL 2043 Plenum Rating	UL 8750, UL 1310, CSA, UL Class P
Weight	0.44 lbs (0.2 kgs)	0.9 lbs (0.41 kgs)	1.5 lbs (0.68 kgs)
Dimensions (L x W x H)	4.21 x 2.38 x 0.98 in. (107 x 60.4 x 0.98 mm)	4.21 x 3.01 x 1.18 in. (107 x 76.4 x 30 mm)	8.37 x 1.7 x 1.14 in. (212.6 x 43.2 x 29 mm)

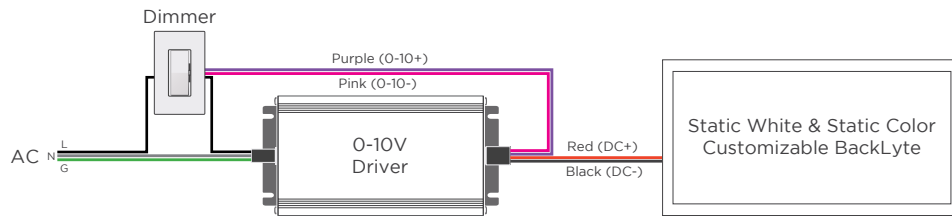
NOTE: Driver selection depends on exact fixture size.

	FOR VAIRABLE WHITE MODELS	
	0-10V DIMMABLE 90W VW/WD DRIVER	
		
Part Number	DRVRFWDVW2490120	
Compatible Dimming	0-10 V	
Output Voltage (DC)	24 VDC	
Output Wattage	90 W	
Output Current	3.75 A	
Input Voltage Range (VAC)	100 - 277 VAC	
Input Frequency	60 Hz	
Efficiency @ Max Load	89%	
Dimming Range	0.1-100%	
Over Current Protection	CC Mode	
Short Circuit Protection	Yes	
Over Temperature Protection	194 °F (90 °C) Max - Auto Recovery	
Operating Temperature	-86 — 104 °F (-30 — 40 °C)	
UL Standards	UL 8750 + UL 1310	
Dimensions (L x W x H)	8.4 x 4.1 x 1.5 in. (213 x 104 x 38 mm)	

AVAILABLE DRIVERS / WIRING DIAGRAMS

	FOR RGB, RGBW, RGBA & VARIABLE WHITE MODELS			
	30W ELECTRONIC DRIVER	60W ELECTRONIC DRIVER	96W ELECTRONIC DRIVER	288W 0-10V/ELV/MLV DRIVER
				
Part Number	DRVW2430	DRVW2460	DRVW2496	DRVW24288TRI010
Output Voltage (DC)	24 VDC	24 VDC	24 VDC	24 VDC
Output Wattage	30 W	60 W	96 W	288 W
Input Voltage Range (VAC)	120 - 277 VAC	120 - 277 VAC	120 - 277 VAC	120 - 277 VAC
Input Current (A)	0.96 A	0.96 A	0.96 A	1.2-2.8 A max.
Input Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Standards	UL 8750	UL 8750	UL 8750	Safety Standard UL8750, UL1310, IEC 61000-4-2-3-4-5-6-8-11
Expected Life Time	50,000 hours (> 149 °F/65 °C)	50,000 hours (> 149 °F/65 °C)	50,000 hours (> 149 °F/65 °C)	Lifetime 50,000 hours @ tc 185 °F (85 °C)
Operating Temperature	-13 — 104 °F (-25 — 40 °C)	-13 — 104 °F (-25 — 40 °C)	-13 — 104 °F (-25 — 40 °C)	-4 — 1 °F (-20 — 60 °C)
Dimensions (L x W x H)	12.1 x 2.36 x 1.4 in (307.34 x 60 x 35.6 mm)	12.1 x 2.36 x 1.4 in (307.34 x 60 x 35.6 mm)	12.1 x 2.36 x 1.4 in (307.34 x 60 x 35.6 mm)	10.24 x 5.2 x 2.05 in. (260 x 132 x 52 mm)

0-10V



WIRE COLORS

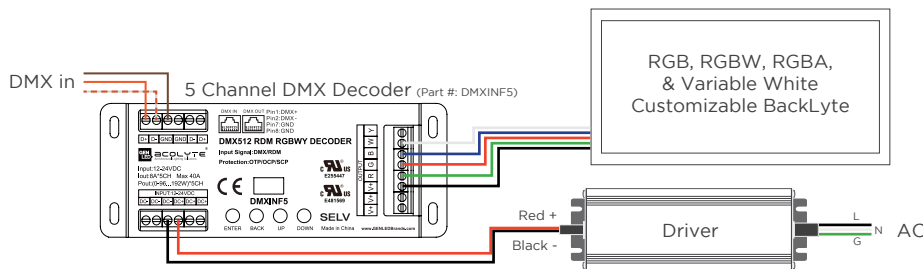
STATIC WHITE + STATIC COLOR
Red Wire (+) Positive
Black Wire (-) Negative

RGB
Black Wire (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel

RGBW + RGBA
Black Wire (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

VARIABLE WHITE
Black Wire (+) Positive
Red Wire (-) goes to Warm White Channel
Green Wire (-) goes to Cool White Channel

DMX



2-CHANNEL VARIABLE WHITE DIMMING

