

# LitePad RGB

Low profile color changing LED panel for backlight or area lighting, available in standard or custom sizes and LED configurations with RGB color mixing, and dimming and control accessories.

## General

1. The luminaire shall be a flat panel color changing LED light with three channels of LEDs for RGB color mixing, and dimming and control accessories. The luminaire shall be a Rosco LitePad RGB with dimming and control accessories as manufactured by Rosco Labs, Inc.
2. The luminaire shall be available in standard or custom sizes from a minimum of 6 in x 6 in (152 mm x 152 mm) to maximum of 47 in x 118 in (1.2 m x 3 m), with center cutouts possible up to 1.5 inch from the edge of the luminaire.
3. The luminaire shall be powered and controlled with Rosco 12 VDC power supply, leads, and controls.
4. The luminaire shall be UL Listed (File E350056) for low voltage lighting products.

## Physical

5. The luminaire shall be constructed of a cast optical grade acrylic panel with light guiding channels etched into the rear surface and LEDs populated along one or multiple edges, along with a heat sink and an opaque white backing. The overall luminaire panel shall be no more than 0.32 in (8 mm) thick and the weight no more than 2 lbs (900 g) per ft<sup>2</sup>.
6. Size of the luminaire shall be customizable for the design or installation being specified, from a minimum of 6 in x 6 in (152 mm x 152 mm) to maximum of 47 in x 118 in (1.2 m x 3 m), with center cutouts possible up to 1.5 inch from the edge of the luminaire.
7. Placement of lead wire exit shall be corner, notched corner, side or rear of panel.
8. The power supply shall accept 90-264VAC input and shall provide 12VDC output.
9. The following shall be included:
  - a. Luminaire
  - b. 12 VDC Power supply and controller
  - c. 4 core, 20 AWG wire, 4-ft (1.2 m) length, unterminated

## Optical

10. LEDs shall be configurable on long edges, short edges, all 4 sides, by inside or outside circumference, or in a custom configuration.
11. Color shall be RGB color mixing

## Environmental and Agency Compliance

12. The luminaire shall be UL Listed for low voltage lighting products.
13. The luminaire shall be rated at IP61 for Indoor use or rated at IP67 for Outdoor use and immersion to 1 m.

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## Thermal

14. Luminaire shall operate in an ambient temperature range of -22° F min to 104° F max (-30° C min to 40° C max)

## Electrical

- 15. The luminaire shall be equipped with an external 12 VDC power supply, dimming controls compatible with 12VDC power supplies shall be offered for customizable installations.
- 16. Lead cable from power supply to luminaire and between luminaires shall be a 4 core, 20 AWG wire, with three connections for RGB color mixing and one for a common ground.
- 17. Luminaire shall consume 5w per linear ft of LED.
- 18. The luminaires shall be wired together in parallel.

## LED Emitters

- 19. The luminaire shall use .25 watt surface mount diodes.
- 20. The color shall be red for 1/3 of the LEDs, green for 1/3 of the LEDs and blue for 1/3 of the LEDs.

## Control and Dimming

21. The luminaire shall be dimmed by 0-10V, DMX or DALI dimming devices compatible with ELV power supplies.

## Specification Ordering Example

Below is the specification ordering form as it appears on the data sheet available from the Resource Center at: <http://www.rosco.com/resource-center>

**SPECIFICATION ORDERING INFORMATION**

<b>RGB</b>	<b>Size</b>	<b>LED Placement</b>
	Length x Width (inches/mm) Diameter CS - Custom Shape (drawing may be required)	L1 - 1 Long Edge L2 - 2 Long Edges S1 - 1 Short Edge S2 - 2 Short Edges A4 - All 4 Sides DIA - Circumference CI - Custom Illumination

**RGB - 12 in x 12 in - A4** specifies a 12 in square LitePad RGB with LEDs on all sides.  
**RGB - 200 mm - DIA inside** specifies a 200 mm round LitePad RGB with LEDs on the inside circumference.

When ordering custom shapes (**CS**) or custom illuminations (**CI**), be sure to include a drawing and verbal description of the desired shape and distribution.

**If there are questions, contact: [customlitepad@rosco.com](mailto:customlitepad@rosco.com)**

# Table Specification for LitePad RGB

Type ID	Qty	Description	Manufacturer	Alternate Manufacturer	Light Source / Power Source			Control
					Color Temp.	LED Type	Watts/Volts	
		Flat panel LED at .4 in (10 mm) thickness, made of cast acrylic that holds indirect LED sources, and is powered with 12 VDC power supply and 4 core, 20 AWG wire with 2.1 mm x 5 mm barrel.  Size: _____	Rosco Labs		RGB color mixing	.25 watt surface mounted diode, positioned: Long Edge Long Edges Short Edge Short Edges All 4 Sides Circumference Custom	5w per ft. for  _____ total watts 12 VDC	Luminaire to be controlled with power supply accessory, part number:
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