

# X-Effects<sup>®</sup> LED RGBW

Compact, special effects, LED projector with flicker-free 0 – 100% dimming, on-board dimming and effect speed control, full color tuning, a white LED color temperature of 5500K, and housing in black, white, or silver. Controllable via DMX, with RDM capability. Accepts X-Effects size gobos and spread lenses from 19° to 70°, and can be installed in standard track with a track adapter.

## General

1. Luminaire shall be a compact, special effects, RGBW LED projector with flicker-free 0 – 100% dimming and optional spread lenses at 19°, 30°, 50° and 70°. The luminaire shall be Rosco X-EFFECTS™ LED RGBW with optional accessories manufactured by Rosco Labs, Inc.
2. Luminaire housing shall be 10.25 in x 7.4 in x 9 in (260 mm x 186 mm x 229 mm) and come in standard black, white, or silver.
3. Luminaire shall have an adjustable yoke.
4. Luminaire shall the option of track compatible adjustable yoke.
5. Luminaire shall have on-board control of dimming and effect speed.
6. Luminaire shall be controllable via DMX and shall have RDM capability
7. Luminaire shall receive power and DMX control via an insulated, unterminated, hybrid cable or cable harness that plugs into rear chassis UTL connector.
8. Luminaire shall be ETL listed to UL 1573/CSA C22.2 #166 for stage and studio use, and to UL 8750 for LED equipment used in lighting products.
9. Luminaire shall be CE certified.

## Physical

10. Luminaire housing shall be constructed of an anodized aluminum extrusion with cast components all powder coated in black, white, or silver.
11. Luminaire shall be 10.25 in x 7.4 in x 9 in (260 mm x 186 mm x 229 mm) and, when combined with yoke, weigh no more than 9 lbs (4.1 kg).
12. Yoke shall attach to both sides and be adjustable.
13. Input voltage shall be 100 – 240 VAC.
14. The following shall be included:
  - a. Luminaire
  - b. Yoke
  - c. Unterminated, hybrid power and data cable or cable harness, 6 ft (2 m) long
  - d. (2) Dynamic Effects Glass Gobos (96mm)

## Optical

15. Output shall be 1500 lumens with beam angle determined by optional lenses of 19°, 30°, 50° or 70°.
16. Color range shall be 4.2 billion discrete mixes (256 x 256 x 256 x 256).
17. Optional lenses shall be symmetrical at 19°, 30°, 50° or 70°.

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## Environmental and Agency Compliance

17. Luminaire shall be ETL listed to UL 1573 for stage and studio use and UL 8750 for LED equipment used in lighting products.
18. Luminaire shall be CSA Rated C22.2#166 for LEDs for stage and studio use.
19. Luminaire shall be CE certified.
20. Luminaire shall be rated at IP65 for Outdoor use.

## Thermal

21. Luminaire shall operate in an ambient temperature range of -13° F min to 113° F max (-20° C min to 45° C max).

## Electrical

22. Luminaire shall be equipped with a 6 ft (2 m) insulated hybrid power and data cable or cable harness, 6 ft (2 m) long. Cables shall be terminated with Female UTL connector on one end, unterminated on the opposing end.
23. Luminaire shall consume no more than 65w.

## LED Emitters

24. Emitters shall be LEDEngin LZC- 03MD07.
25. Emitter peak wavelengths shall be: Red @ 625nm; Green @ 525nm; Blue @ 455nm.
26. Color range shall be 4.2 billion discrete mixes (256 x 256 x 256 x 256).
27. Lumen Maintenance shall be 50,000 hours @ 450C (LM-80 Standard).

## Control and Dimming

28. Luminaire shall be dimmable by DMX control, and have RDM capability.
29. Luminaire shall be equipped with UTL hybrid receptacle.
30. Dimming shall be flicker-free, 0 – 100%.
31. Maximum intensity level and effect speed shall be adjustable with on-board controls.
32. DMX control can be achieved with any DMX controller.
33. Luminaire shall have DMX In/Out capability.
34. Luminaire shall have RDM capability.

## Specification Ordering Example for X-Effects LED RGBW

Product ordering information can be found at this URL: <http://www.rosco.com/product/x-effects-led-projector-rgbw>  
 The product numbers for ordering X-Effects LED RGBW are listed below.

2970000RGBW1	X-Effects LED projector, RGBW, IP65, Black	297000000070	X-Effects LED Projector 70-Degree Lens
2970000RGBW2	X-Effects LED projector, RGBW, IP65, White	297000000075	X-Effects LED Effects Glass – Single
2970000RGBW3	X-Effects LED projector, RGBW, IP65, Silver	297000000095	X-Effects LED Blue Filter - Water Effect
297000000019	X-Effects LED Projector 19-Degree Lens	297000000085	X-Effects LED Amber Filter - Fire Effect
297000000030	X-Effects LED Projector 30-Degree Lens		
297000000050	X-Effects LED Projector 50-Degree Lens		

If there are questions, contact Rosco Customer Service: [CTOrders@rosco.com](mailto:CTOrders@rosco.com)

# Table Specification for X-Effects® LED RGBW

Type ID	Qty	Description	Manufacturer	Alternate Manufacturer	Light Source / Power Source			Control
					Color Temp.	LED Type	Watts/Volts	
		Compact special effects LED projector, 10.25 in x 7.4 in x 9 in (260 mm x 186 mm x 229 mm) with housing made of anodized aluminum extrusion and cast components, optional lenses and effects wheels. Exterior rated.	Rosco Labs		Color range shall be 4.2 billion discrete mixes (256 x 256 x 256 x 256)	LEDEngin LZC-03MD07	65W max.	DMX In/Out control with RDM capability via hybrid cable or cable harness, and on-board control, 0 – 100% flicker-free dimming
Comments								
<p>Output intensity and effect speed can be set with on-board controls. Optional mounting via rack adapter.</p>								