

# Miro Cube<sup>®</sup> 4C

A small, square profile, color-changing LED spot with flicker-free 0 – 100% dim, and dim to warm capability, spread lenses, and dimming and control accessories. Controllable via DMX and on-board menu.

## General

1. Luminaire shall be a small square color-changing LED light with a set of three spread lenses, 20°, 40°, 60°, dimming and control accessories, and optional optical control accessories. The luminaire shall be a Rosco Miro Cube 4C with dimming and control accessories as manufactured by Rosco Labs, Inc.
2. Luminaire housing shall be 4 in x 4 in x 4.25 in (100 mm x 100 mm x 108 mm) and come in standard black or white.
3. Luminaire shall have a yoke for track or non-track installation.
4. Luminaire shall be powered via a Neutrik Powercon™ and controlled via 5-pin DMX, or powered via a hard-wired pigtail and controlled via RJ45, or the luminaire color and intensity shall be set by an on-board menu.
5. Luminaire shall be ETL listed to UL1573 for stage and studio use, and ETL listed to UL8750 for LED equipment used in lighting products.

## Physical

6. Luminaire housing shall be constructed of an 1/8 in extruded aluminum wall with powder coating in black or white. The LED module shall be seated with proprietary copper heat sink and light mixing lens optics as designed by The Black Tank.
7. Luminaire shall have a self-contained LED board with connectors for easy removal and replacement.
8. Luminaire shall be 4 in x 4 in x 4.25 in (100 mm x 100 mm x 108 mm) and when combine with yoke weigh no more than 2.1 lbs (0.95 kg).
9. Yoke shall attach to both sides and be adjustable via locking knobs on either side.
10. Input voltage shall be 90 – 240 VAC 50/60Hz.
11. The following shall be included:
  - a. Luminaire
  - b. Yoke
  - c. Set of symmetrical spread lenses in 20°, 40°, and 60°
  - d. Hard-wired 18" AWG18 pigtails or 6-ft AWG18 Powercon power cord.
12. Luminaire shall accept optional Rosco Barn Doors, Egg Crate Louvers or Top Hats for additional beam control.
13. Luminaire shall accept optional Rosco 2-Circuit or 3-Circuit Track Adapter for power and DMX inputs.

## Optical

14. Output shall be 950 lumens with native beam angle of 12° degrees (no lens).
15. Color range shall be 4.2 billion discrete mixes (255 x 255 x 255 x 254).
16. Lenses shall be symmetrical at 20°, 40°, and 60°.
17. Luminaire shall accept optional 30x5 degree, 60x10 degree or 75x45 degree asymmetric spread lenses.
18. Luminaire shall have a complete set of IES files for Native beam, and for available symmetrical spread lenses.

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## Environmental and Agency Compliance

19. Luminaire shall be compliant to FCC Class A Radiated and Conducted emissions for commercial and industrial use.
20. Luminaire shall be ETL listed to UL1573 for stage and studio use, and ETL listed to UL8750 for LED equipment used in lighting products.
21. Luminaire shall be CSA Rated C22.2#166-M1983 for LEDs for stage and studio use.
22. Luminaire shall be CE Certified.
23. Luminaire shall be RoHS Compliant.
24. Luminaire shall be rated at IP20 for Indoor use only.

## Thermal

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

## Electrical

26. Luminaire shall be equipped with Neutrik Powercon™ adapter and 5-pin DMX adapter.
27. Luminaire shall have the option of hard-wired 18" AWG18 pigtail and RJ45 Adapter.
28. Luminaire shall consume no more than 50w.

## LED Emitters

29. Emitters shall be 4 x 12W Osram Multi-chip.
30. Peak color wavelengths/color temperatures shall be: Red – 625nm; Green – 527 nm; Blue – 453 nm; White – 6500K.
31. Lumen Maintenance shall be 80,000 hours B50 L70 at 45C (LM-79-08 Standard).

## Control and Dimming

32. Intensity level, color, and color temperature shall be set by DMX control or User Interface. Luminaire shall require 4 channels for 8-bit control, 8 channels for 16-bit control.
33. Luminaire shall be dimmable by DMX control.
34. Dimming shall be flicker-free, 0 – 100%, with dim to warm capability.
35. DMX control shall be achieved with the Rosco Preset Remote or any DMX controller.
36. Luminaire shall include DMX Out to enable daisy-chain control of multiple units.
37. Luminaire shall use PWM @ minimum 4kHz for flicker-free dimming
38. Luminaire shall be compatible with optional data and non-data track adapters, including but not limited to Rosco Track 1C/2C/3C, Juno, Halo, Lightolier.

## Specification Ordering Example for Miro Cube 4C

Product ordering information can be found at this URL: <http://www.rosco.com/product/miro-cube-4c>

The product numbers for ordering the Miro Cube 4C are listed below. When ordering for track mount specify Miro Cube Rosco Track Adapter.

515 90050 1014	Miro Cube 4C – Black (Powercon and DMX)	515 91110 0006	Miro 4C ARC w/Rosco Track Adapter - White
515 90050 2014	Miro Cube 4C – White (Powercon and DMX)	515 91110 0007	Miro 4C ARC w/Rosco Track Adapter - Black
515 90050 1019	Miro Cube 4C ARC – Black (Pig-tail and RJ45)		
515 90050 2019	Miro Cube 4C ARC – White (Pig-tail and RJ45)		

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

# Table Specification for Miro Cube<sup>®</sup> 4C

Type ID	Qty	Description	Manufacturer	Alternate Manufacturer	Light Source / Power Source			Control
					Color Temp.	LED Type	Watts/Volts	
		Small rectangular LED, 4 in x 4 in x 4.25 in (100 mm x 100 mm x 108 mm) with housing made of extruded aluminum with optical lens package	Rosco Labs		4.2 billion discrete mixes (255 x 255 x 254)	4 x 12W Osram Multi-chip Red - 625nm; Green - 527 nm; Blue - 453 nm; White - 6500K	50w	DMX with 5-pin or RJ45, 0 - 100% flicker-free, and dim to warm
Comments								
To be track mounted. To be controlled with a DMX control system. To be set with on-board user interface.								