Miro Cube® WNC, 3W, 3N

A small, square profile, tunable white light LED spot with up to 92 CRI, flicker-free 0 – 100% dim, and dim to warm capability, available in three white color temperature versions: tunable white, 2700K, and 4000K, with spread lenses and dimming and control accessories. Controllable via DMX and on-board menu.

General

1. Luminaire shall be a small square LED light in three versions of white: tunable, 2700K, and 4000K with up to 92 CRI, 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 WNC, 3W, or 3N 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 intensity and color temperature 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 Rosco 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 Adapters for power and dimming inputs.

Optical

14. Output shall be 3400 lumens with native beam angle of 19° degrees (no lens).
15. Color temperature option shall be tunable white, 2700K, or 4000K.
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 12 x 4w Cree XM-L LED chip packages. WNC shall have: 3 @ 2700K, 3 @ 4000K, and 3 @ 6500K; 3W shall have 12 @ 2700K; 3N shall have 12 @ 4000K.
30. Color temperature range shall be: WNC- 2700K to 6500K; 3W- fixed @ 2700K; 3N- fixed @ 4000K.
31. Lumen Maintenance shall be 50,000 hours L50 @ 45C and 100,000 hours L50 @ 25C (LM-79-08 Standard).

Control and Dimming

32. Intensity level and color temperature shall be set by DMX control or User Interface. WNC units shall require 3 channels for 8-bit control, 6 channels for 16-bit control; 3W and 3N units shall require 1 channel for 8-bit control, 2 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 Eutrac 1C/2C/3C, Juno, Halo, Lightolier.

Specification Ordering Example for Miro Cube WNC, 3W, 3N

Product ordering information can be found at this URL: **http://www.rosco.com/product/miro-cube-wnc**
The product numbers for ordering the Miro Cube WNC, 3W, 3N are listed below. When ordering for track mount specify Miro Cube DMX Data Track Adapter.

515 90050 1020	Miro Cube WNC ENT – Black (Powercon & DMX)	515 90050 1021	Miro Cube 3W ENT – Black (Powercon & DMX)
515 90050 2020	Miro Cube WNC ENT – White (Powercon & DMX)	515 90050 1022	Miro Cube 3N ENT – Black (Powercon & DMX)
5159 0050 1029	Miro Cube WNC ARC – Black (Pig-tail & RJ45)	515 91110 0004	Miro WNC ARC w/Data Track Adapter - White
5159 0050 2029	Miro Cube WNC ARC – White (Pig-tail & RJ45)	515 91110 0005	Miro WNC ARC w/Data Track Adapter - Black

If there are questions, contact Rosco Customer Service: CTOrders@rosco.com

Table Specification for Miro Cube® WNC, 3W, 3N

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		Up to 92 CRI Tunable white, 2700K, or 6500K	12 x 4w LED chip packages: WNC: 4 @ 2700K, 4 @ 4000K, and 4 @ 6500K; 3W: 12 @ 2700K; 3N: 12 @ 4000K	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.