

# Braq Cube<sup>®</sup> WNC, 3W, 3N

A small, square profile, tunable white light LED spot with up to 92 CRI, DMX controllable, flicker-free 0 – 100% dim, and dim to warm capability, available in three versions of white: 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, all 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 Braq Cube WNC, 3W, or 3N with dimming and control accessories as manufactured by Rosco Labs, Inc.
2. Luminaire housing shall be 5 in x 5 in x 5.3 in (127 mm x 127 mm x 135 mm) and come in standard black and 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 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 white or black.
7. The LED module shall be seated with proprietary copper heat sink and light mixing lens optics as designed by The Black Tank.
8. Luminaire shall have a self-contained LED board with connectors for easy removal and replacement.
9. Luminaire shall be 5 in x 5 in x 5.3 in (127 mm x 127 mm x 135 mm) and when combine with yoke weigh no more than 3.5 lbs (1.6 kg).
10. Yoke shall attach to both sides and be adjustable via locking knobs on either side.
11. Input voltage shall be 90 – 240 VAC 50/60Hz.
12. The following shall be included:
  - a. Luminaire
  - b. Yoke
  - c. Set of symmetrical spread lenses in 20°, 40°, and 60°
  - d. Power cord with Neutrik Powercon
13. Luminaire shall accept optional Rosco Barn Doors, Egg Crate Louvers or Top Hats for additional beam control.

## Optical

14. Output shall be 7100 lumens with native beam angle of 19° degrees (no lens).
15. Color temperature range shall be: WNC – 2700K to 6500K. 3W – fixed @ 2700K. 3N – fixed @ 4000K.
16. Luminaire shall accept optional 30x5 degree, 60x10 degree or 75x45 degree asymmetric spread lenses.
17. 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

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

## Thermal

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

## Electrical

25. Luminaire shall be equipped with Neutrik Powercon™ adapters for Power In and Power Out to enable daisy-chain of up to 9 units.
26. Luminaire shall consume no more than 100w.

## LED Emitters

27. Emitters shall be 21 x 4w Cree XM-L LED chip packages. WNC shall have: 7 @ 2700K, 7 @ 4000K, and 7 @ 6500K. ; 3W shall have 21 @ 2700K; 3N shall have 21 @ 4000K.
28. Color temperature range shall be: WNC – 2700K to 6500K, 3W – fixed @ 2700K; 3N – fixed @ 4000K.
29. Lumen Maintenance shall be 50,000 hours L50 @ 45C and 100,000 hours L50 @ 25C (LM-79-08 Standard).

## Control and Dimming

30. Intensity level and color temperature shall be set by DMX control or User Interface (on-board menu). 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.
31. Luminaire shall be dimmable by DMX control. DMX input shall be via supplied 5-pin DMX adapter.
32. Dimming shall be flicker-free, 0 – 100%, with dim to warm capability.
33. DMX control shall be achieved with the Rosco Preset Remote or any DMX controller.
34. Luminaire shall include DMX Out to enable daisy-chain control of multiple units.
35. Luminaire shall use PWM @ minimum 4kHz for flicker-free dimming
36. 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 Braq Cube WNC, 3W, 3N

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

The product numbers for ordering the Braq Cube WNC, 3W, 3N are listed below. When ordering for track mount specify Braq Cube Rosco Track Adapter.

|                |                                     |                |                                   |
|----------------|-------------------------------------|----------------|-----------------------------------|
| 515 90100 1020 | Braq Cube WNC – Black w/power cord  | 515 90100 1021 | Braq Cube 3W – Black w/power cord |
| 515 90100 2020 | Braq Cube WNC – White w/power cord  | 515 90100 2021 | Braq Cube 3W – White w/power cord |
| 515 90100 1120 | Braq Cube WNC – Black no power cord | 515 90100 1122 | Braq Cube 3N – Black w/power cord |
| 515 90100 2120 | Braq Cube WNC – White no power cord | 515 90100 2122 | Braq Cube 3N – White w/power cord |

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

# Table Specification for Braq 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<br>5 in x 5 in x 5.3 in<br>(127 mm x 127 mm x 135mm)<br>with housing made of<br>extruded aluminum with<br>optical lens package | Rosco Labs   |                        | Up to 92<br>CRI<br>Tunable<br>white,<br>2700K,<br>or<br>4000K | 21 x 4w LED<br>chip packages:<br>WNC: 7 @ 2700K<br>7 @ 4000K, and<br>7 @ 6500K;<br>3W: 21 @ 2700K;<br>3N: 21 @ 4000K | 100w        | DMX with 5-pin and<br>on-board menu,<br>0 – 100% flicker-free,<br>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. |     |  |              |                        |   |  |             |   |