Braq Cube® 4C & 4CA

A small, square profile, color-changing LED spot, DMX controllable with flicker-free 0 – 100% dim, spread lenses, dimming and control accessories. Controllable via DMX or 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 Braq Cube 4C & 4CA 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 Rosco 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 1800 lumens with native beam angle of 12° degrees (no lens).

15. Color range shall be 4.2 billion discrete mixes (256 x 256 x 256 x 256).

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 consume no more than 100w.

LED Emitters

28. Emitters shall be 7 x 12W Osram Multi-chip.
29. Peak color wavelengths/color temperatures shall be: Red – 625nm; Green – 527 nm; Blue – 453 nm; White – 6500K/Amber 600nm.
30. Lumen Maintenance shall be 80,000 hours B50 L70 at 45C (LM-79-08 Standard).

Control and Dimming

31. Intensity level and color temperature shall be set by DMX control or User Interface (on-board menu). Luminaire shall require 4 channels for 8-bit control, 8 channels for 16-bit control.
32. Luminaire shall be dimmable by DMX control.
33. Dimming shall be flicker-free, 0 – 100%, with dim to warm capability.
34. DMX control shall be achieved with the Rosco Preset Remote or any DMX controller.
35. Luminaire shall include DMX Out to enable daisy-chain control of multiple units.
36. Luminaire shall use PWM @ minimum 4kHz for flicker-free dimming.
37. 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 4C & 4CA

Product ordering information can be found at this URL: **http://www.rosco.com/product/braq-cube-4c**
The product numbers for ordering the Braq Cube 4C & 4CA are listed below. When ordering for track mount specify Braq Cube Rosco Track Adapter.

515 90100 1014	Braq Cube 4C – Black w/Power Cord	515 90100 1040	Braq Cube 4CA - Black w/Power Cord
515 90100 2014	Braq Cube 4C – White w/Power Cord	515 90100 1140	Braq Cube 4CA - Black No Power Cord
515 90100 1114	Braq Cube 4C – Black No Power Cord	515 90100 2040	Braq Cube 4CA - White w/Power Cord
515 90100 2114	Braq Cube 4C – White No Power Cord	515 90100 2140	Braq Cube 4CA - White No Power Cord

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

Table Specification for Braq Cube® 4C & 4CA

| Type ID | Qty | Description | Manufacturer | Alternate Manufacturer | Light Source / Power Source | | | Control |
					Color Temp.	LED Type	Watts/Volts	
		Small rectangular LED 5 in x 5 in x 5.3 in (127 mm x 127 mm x 135 mm) with housing made of extruded aluminum with optical lens package	Rosco Labs Braq Cube 4C Braq Cube 4CA	N/A	4C: Red/Green/ Blue/White (6500K) 4CA: Red/Green/ Blue/Amber	7 x 12W Osram Multi-chip	100w	DMX with 5-pin and on-board menu, 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.								