

# Pica Cube™ WNC, 3W, 3N

Compact, square profile, white light emitting LED spot luminaire, with up to 92 CRI, DMX controllable, 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 or on-board menu.

## General

1. Luminaire shall be a compact square LED light in three versions of white: tunable, 2700K, and 4000K with up to 92 CRI, with a set of three spread lenses, 20°, 40°, 60°, and dimming and control accessories, and optional optical control accessories. The luminaire shall be a Rosco Pica Cube™ WNC, 3W, or 3N with dimming and control accessories as manufactured by Rosco Labs, Inc.
2. Luminaire housing shall be 2.5 in x 2.5 in x 3.6 in (63.5 mm x 63.5 mm x 91 mm) and come in standard colors of black and white.
3. Luminaire shall have a bracket for non-track installation, and a yoke for track installation.
4. Luminaire shall be powered and controlled with a Rosco 12-24 VDC power supply, Rosco Pica Portal, or Rosco track.
5. Luminaire shall be UL 2108 listed for low voltage lighting systems, and CSA 22.2 No. 9 listed for luminaires.

## Physical

6. Luminaire housing shall be constructed of an 1/8 in extruded aluminum wall with powder coating in white or black. 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 be 2.5 in x 2.5 in x 3.6 in (63.5 mm x 63.5 mm x 91 mm) and when combine with bracket or yoke weigh no more than 0.9 lbs (0.41 kg).
8. Bracket shall attach to one side of the housing. Yoke shall attach to both sides of housing. Bracket and yoke shall be adjustable via locking knobs at point of attachment to side(s) of housing..
9. Power supply shall accept 100-240VAC input and shall provide 12-24VDC output.
10. The following shall be included:
  - a. Luminaire
  - b. Bracket
  - c. Set of symmetrical spread lenses in 20°, 40°, and 60°
  - d. 12-24 VDC Power supply, Rosco Pica Portal, or Data Track Adapter Assembly for track installation
11. Luminaire shall accept optional Rosco Barn Doors, Egg Crate Louvers or Top Hats for additional beam control.

## Optical

12. Output shall be 1005 lumens with native beam angle of 13° (no lens).
13. Color temperature option shall be tunable white, 2700K, or 4000K.
14. Lenses shall be symmetrical at 20°, 40°, and 60°.
15. Luminaire shall accept optional 30x5 degree, 60x10 degree or 75x45 degree asymmetric spread lenses.
16. 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

17. Luminaire shall be compliant to FCC Class A Radiated and Conducted emissions for commercial and industrial use.
18. Luminaire shall be UL 2108 listed for low voltage lighting systems.
19. Luminaire shall be CSA 22.2 No. 9 listed for luminaires.
20. Luminaire shall be RoHS Compliant.
21. Luminaire shall be rated at IP20 for Indoor use only.

## Thermal

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

## Electrical

23. Luminaire shall be equipped with an external 12-24 VDC power supply, a Rosco Pica Portal, or a track mount kit.
24. Luminaire shall have the option of receiving data and power from a single Cat5e feed using an RJ45 connector.
25. Luminaire shall consume no more than 24w.

## LED Emitters

26. Emitters shall be 3 – 4w LED chip packages. WNC shall have 1 @ 2700K, 1 @ 4000K, and 1 @ 6500K. 3W shall have 3 @ 2700K. 3N shall have 3 @ 4000K.
27. Color range shall be: WNC – 2700K to 6500K. 3W – fixed @ 2700K. 3N – fixed @ 4000K.
28. Lumen Maintenance shall be 50,000 hours L50 @ 45°C and 100,000 hours L50 @ 25°C (LM-79-08 Standard).

## Control and Dimming

29. Luminaire shall be dimmable by DMX or via User Interface on the rear panel. 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.
30. Dimming shall be flicker-free, 0 – 100%, with dim to warm capability.
31. DMX control shall be achieved with the Rosco Preset Remote or any DMX controller.
32. Luminaire shall include DMX Out to enable daisy-chain control of multiple units.
33. Luminaire shall use PWM, adjustable between 4kHz and 16kHz for flicker-free dimming
34. 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

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

The product numbers for ordering are listed below. When ordering for track mount specify Pica Cube DMX Data Track Adapter.

- WNC = tunable white
- 3W = 2700K
- 3N = 4000K

515 90200 1020	Pica Cube WNC – Black	515 90200 1022	Pica Cube 3N – Black
515 90200 2020	Pica Cube WNC – White	515 90200 2022	Pica Cube 3N – White
515 90200 1021	Pica Cube 3W – Black	515 91110 0028	Pica Cube DMX Data Track Adapter – Black
515 90200 2021	Pica Cube 3W – White	515 91110 0029	Pica Cube DMX Data Track Adapter - White

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

# Table Specification for Pica Cube™ WNC, 3W, 3N

Type ID	Qty	Description	Manufacturer	Alternate Manufacturer	Light Source / Power Source			Control
					Color Temp.	LED Type	Watts/Volts	
		Compact rectangular LED 2.5 in x 2.5 in x 3.6 in (63.5mm x 63.5mm x 91mm), with housing made of extruded aluminum with optical lens package	Rosco Labs		Up to 92 CRI Tunable white, 2800K, or 4000K	3 x 4w LED chip packages. -WNC 1 @ 2700K, 1 @ 4000K, and 1 @ 6500K - 3W 3 @ 2700K - 3N shall have 3 @ 4000K	24w	DMX via Cat 5e with RJ45 or Manual UI controllable, 0 – 100% flicker-free, and dim to warm
Comments								
To be track mounted. To be controlled with Rosco Portal. To be set with remote DMX control.								