



**BRAMAL LED**

# Introducing the **ONE Tube solution** Replaces T5 HO (54W)

**Bramal LED tube solution for direct AC connection 120-347VAC**

Building on **BRAMAL LED's** patented multi use tube, we have developed a lower cost AC driven Tube solution for use in retrofits – allowing the removal of energy hungry ballasts and in new low cost fixtures for both commercial and industrial applications. This new development stays true to **BRAMAL LED's** strict specification demands, meaning the same 50,000 hour life time rating and T10 form factor as current products.

## FEATURES OF THE BRAMAL LED AC TUBE SOLUTION

- » **OPERATES** via a direct AC voltage connection (see installation instructions for full details) (120, 277, 347 VAC versions available)
- » **MINIMUM 50,000 HOUR RATED LIFETIME**
- » **EQUIPPED WITH A UNIQUE INTERNAL CONSTANT CURRENT SOURCE<sup>†</sup>** ensuring proper electrical regulation over its entire lifespan
- » **VIEWING ANGLE OF 120 DEGREES WITH CLEAR OR FROSTED LENS – DLC certified**
- » **INSTANTLY STARTS IN ANY CLIMATE CONDITION:** cold, hot or humid
- » **SAVES UP TO 70% IN ENERGY CONSUMPTION** versus conventional fluorescents lamps
- » **GENERATES LESS HEAT:** ideal for refrigerated applications and air conditioned spaces
- » **MANUFACTURED WITH THERMOPLASTIC POLYMERS:** flexible, shatterproof and recyclable
- » **ENVIRONMENTALLY FRIENDLY:** components are RoHS (free of lead, mercury and cadmium), with zero persistent and volatile organic pollutants
- » **STANDARD SIZES AVAILABLE:** 4ft
- » **REQUIRES T5 G5 bi-pin socket to be replaced with G13 socket due to larger diameter tube required for LED longevity**
- » **UNIQUE BUILT IN SAFTY CIRCUIT – ALL PINS MUST BE CONNECTED FOR UNIT TO POWER UP**

<sup>†</sup> Patented Canadian Innovation – PATENT NUMBER 9,232,578



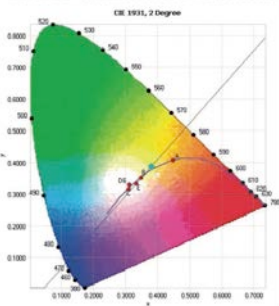
Tel: (450) 763-1443  
[BRAMALLED.COM](http://BRAMALLED.COM)



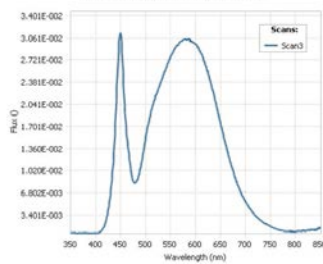
**SPECIFICATIONS – LED-T10-C-4FT-XXXX-G13**

MODEL: 4' LED T-10		CLEAR LENS	FROSTED LENS*
Power Consumption		28W	28W
Input Voltage		120, 277, 347 VAC	120, 277, 347VAC
Operation Frequencies		40 Hz-200 kHz	40 Hz-200 kHz
Power Factor / THD% V/A		>0.95-0.99 / 0.2/6.8%	>0.95-0.99 / 0.2/6.8%
Luminous Efficiency (Bare Lamp)	3500K	115 lm/W	110 lm/W
	4200K	125 lm/W	115 lm/W
	5000K	130 lm/W	120 lm/W
Light Output (Bare Lamp)	3500K	3220 lm	3080 lm
	4200K	3500 lm	3220 lm
	5000K	3640 lm	3360 lm
Color Rendering Index (CRI)	3500K	83	
	4200K	82	
	5000K	81	
Standard Color Temperatures		3500K / 4200K / 5000K	
Lumen Maintenance L <sub>70</sub>		97%	
Ambient Operating Temperature		20°C (-40 to +40°C)	
Length (FACE TO FACE)		45.8" or 1163mm	
Lifespan		80 000+ hours	
Warranty		5 years standard	
Construction		Thermoplastic polymers	
Certifications		C.S.A C22.2 – 1993, C22.2 – 250.0 TIL – 79 UL 1993, 1598, 1598C, 8750 NSF 2, 51, 169 (sanitation pending) FCC part 15 & 18	

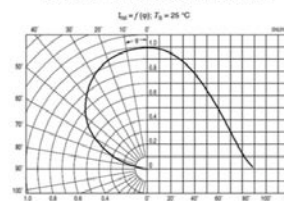
CIE 1931 CHROMATICITY DIAGRAM



SPECTRAL FLUX GRAPH



RADIATION CHARACTERISTIC



For More information contact [info@Bramalled.com](mailto:info@Bramalled.com) or call 450 763 1443

For Orders, please contact [PO@Bramalled.com](mailto:PO@Bramalled.com)

Build your Bramal LED **ONE** tube spec

LED-T10-XXFT-(Metric)-XXXX-End cap Example LED-T10-4FT-5000-G13 (4FT, 5000k, with G13 end cap)

Note datasheet values subject to +/- 3% tolerance

