



120VAC DIRECT Tube solution

BRAMAL LED

Replaces T8 and T12 on direct 120 VAC

100,000 hour lifetime rated

Bramal LED tube solution for direct AC connection

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 a 100,000 hour life time rating.

FEATURES OF THE BRAMAL LED AC TUBE SOLUTION

- » **OPERATES** via a direct AC voltage connection (see installation instructions for full details) (120, 347 VAC versions available)
- » **100,000 HOUR RATED LIFETIME**
- » **EQUIPPED WITH A UNIQUE INTERNAL POWER CONTROLLER[†]** ensuring proper electrical regulation over its' entire lifespan
- » **VIEWING ANGLE OF 120 DEGREES WITH CLEAR OR FROSTED LENS**
- » **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
- » **UNIQUE BUILT IN SAFTY CIRCUIT – ALL PINS MUST BE CONNECTED FOR UNIT TO POWER UP**

[†] Canadian Innovation – PATENT PENDING



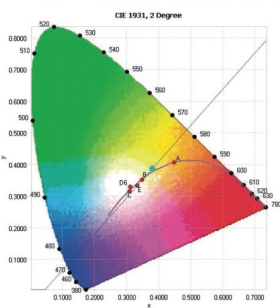
Tel: (450) 763-1443
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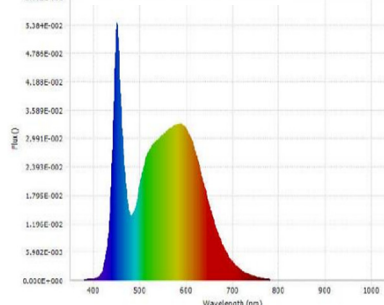
SPECIFICATIONS – LED-T10-4FT-120VAC-XXXX-G13

MODEL: 4' LED T-10		CLEAR LENS	FROSTED LENS*
Power Consumption (Typ @ 120VAC)		14.3 W – 4100K 13.9 W – 5000K	14.3 W – 4100K 13.9 W – 5000K
Input Voltage (Nom RMS)		120 VAC	120 VAC
Operation Frequencies		60 Hz	60 Hz
Power Factor / THD% V/A		0.986 / 0.16 / 6.8%	0.986 / 0.16 / 6.8%
Luminous Efficiency (Bare Lamp)	4100K	118.28 lm/w	106.6 lm/w
	5000K	128.4 lm/w	115.8 lm/w
Light Output (Bare Lamp)	4100K	1693 lm	1524 lm
	5000K	1787 lm	1609 lm
Color Rendering Index (CRI)	4100K	83.2	
	5000K	83.5	
Standard Color Temperatures		4100K & 5000K	
Lumen Maintenance L ₇₀		97%	
Ambient Operating Temperature		20°C (-40 to +40°C)	
Length (FACE TO FACE)		47 5/32" or 1198mm	
Length (Pin to Pin)		47 23/32" or 1212mm	
Lifespan		100 000 hours	
Warranty		5 years standard	
Construction		Thermoplastic polymers	
Certifications		UL File Numbers E477252 E484800	

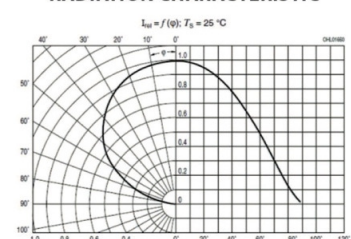
CIE 1931 CHROMATICITY DIAGRAM



SPECTRAL FLUX GRAPH



RADIATION CHARACTERISTIC



BRAMAL LED

* Frosted version is not DLC qualified.
 Note datasheet values subject to +/- 5% tolerance
 Check with Bramal LED for availability



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