



BRAMAL LED

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Introducing the **ONE Tube solution**

Replaces all T8 and T12 Fluorescent tubes

Bramal LED tube solution for Electronic & Magnetic ballasts or direct AC connection

Representing a true state of the art, cost-effective and environmental technology[†], **Bramal LED** tube lamps are “the” new versatile solution for industrial and commercial lighting applications. Whether re-lamping or retrofitting, the Multi Use **Bramal LED** tube yields remarkably higher instant energy savings and improved lighting quality. Thanks to their revolutionary integrated universal power supply[†], replacing existing T8/T12 fluorescents lamps with **Bramal LED** tubes requires no professional help. NO need to bypass the existing ballast – simply snap the **Bramal LED** tube in, flip the switch and immediately start saving!

FEATURES OF THE LED T10

- » **OPERATES WITH MOST COMMON EXISTING FLUORESCENT BALLASTS IN FIXTURES** (electronic or magnetic) or via a direct AC voltage connection (see installation instructions for full details)
- » **MINIMUM 80,000 HOUR RATED LIFETIME**
- » **EQUIPPED WITH A UNIQUE INTERNAL CONSTANT CURRENT SOURCE[†]** ensuring proper electrical regulation over it's 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:** 2, 3, 4, 5, 6 & 8ft and metric versions of standard sizes
- » **CUSTOM SIZES AVAILABLE**
- » **UNIQUE BUILT IN SAFTY CIRCUIT – ALL PINS MUST BE CONNECTED FOR UNIT TO POWER UP**
- » **ONE SKU FITS ALL APPLICATIONS – NO MODIFICATION OR EXTERNAL DRIVERS REQUIRED**

[†] Patented Canadian Innovation – PATENT NUMBER 9,232,578



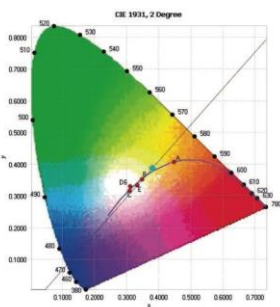
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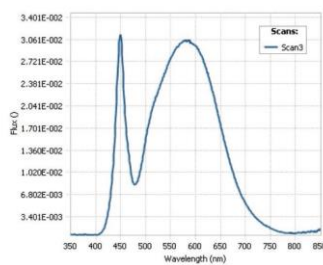
SPECIFICATIONS – LED-T10-4FT (METRIC)-XXXX-XXX

| MODEL: 4' LED T-10 - METRIC | | CLEAR LENS | FROSTED LENS |
|---------------------------------|-------|---|---|
| Power Consumption | | 16W | 16W |
| Input Voltage | | 120, 208, 220, 240, 277, 347, 408 VAC, Magnetic & Electronic Ballasts | 120, 208, 220, 240, 277, 347, 408 VAC, Magnetic & Electronic Ballasts |
| Operation Frequencies | | 40 Hz-200 kHz | 40 Hz-200 kHz |
| Power Factor / THD% V/A | | >0.95-0.99 / 0.5/5% | >0.95-0.99 / 0.5/5% |
| Luminous Efficiency (Bare Lamp) | 3500K | 124 lm/W | 108 lm/W |
| | 4200K | 127 lm/W | 111 lm/W |
| | 5000K | 131 lm/W | 114 lm/W |
| Light Output (Bare Lamp) | 3500K | 1984 lm | 1728 lm |
| | 4200K | 2032 lm | 1776 lm |
| | 5000K | 2096 lm | 1824 lm |
| Color Rendering Index (CRI) | 3500K | 81 | |
| | 4200K | 83 | |
| | 5000K | 84 | |
| Standard Color Temperatures | | 3500K / 4200K / 5000K | |
| Lumen Maintenance L70 | | 97% | |
| Ambient Operating Temperature | | 20°C (-40 to +40°C) | |
| Length (FACE TO FACE) | | 45 21/32" or 1159mm | |
| Length (Pin to Pin) | | 46 6/32" or 1173mm | |
| 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 | |

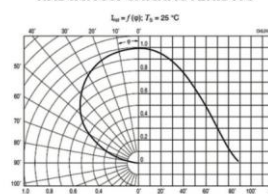
CIE 1931 CHROMATICITY DIAGRAM



SPECTRAL FLUX GRAPH



RADIATION CHARACTERISTIC



For More information contact info@Bramalled.com or call 450 763 1443

For Orders, please contact PO@Bramalled.com

Build your Bramal LED **ONE** tube spec

LED-T10-XXFT-(Metric)-XXXX-End cap Example LED-T10-4FT-4200-G13 (4FT, 4200k, with G13 end cap)

Note datasheet values subject to +/- 5% tolerance

Warning - not all ballasts are compatible with LED tubes, please read our disclaimer notice in the documents section of our site or contact our technical team for more information prior to installation.

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