

### White Hi-Flux LED Frosted Tube Lights, 12VDC/UL-Listed

TBL5xxF(C)-TPW-012V-UL



#### Lengths 6"/12"/24"/48" — Energy-Efficient Replacements for Incandescents/Fluorescents

True White - 4800K-5200K Color — Wide Diffused Beam



#### **FEATURES**

- Lamp Warranty: 3 Years
- Long Operating Life: Continuous Burn – White LEDs Last up to 50,000+ Hours
- Input Voltage: 12VDC Runs on Solar Cells, 12V Batteries or 120VAC-to-12VDC **Power-Pack Converters**
- Safety Assurance: U.S. & Canadian UL-Listed
- True White Color Temperature: Not Too Cool, Not Too Warm
- Housing Material: Polycarbonate, UV-Protected, Scratch- & Impact-Resistant
- Mounting Clip Material: Polycarbonate, UV-Protected, Scratch- & Impact-Resistant
- Weatherproof: Enclosure Is Sealed & Water-Resistant

- Solid-State: High-Shock & High-Vibration-Resistant
- Easy Installation: Quick Mounting Brackets Provide **Troublefree Setup and Lower Installation Costs**
- Wide Ambient Operating **Temperature Range:** ~-22°F to ~+122°F

[~-30°C to ~+50°C]



• Each module comes with two (2) mounting clips. Additional clips interconnecting leads at ontional

U.S. Patent No. 6,997,576 B1



both ends

Canada/US UL-Listed 3KPU IFDR 311089 IFDR7.311089 Certified for Canada

Ideal for Use with Alternate or Renewable Energy Resources -Solar & Wind **Power** 

White LED technology is patent protected in the United States. LEDtronics white LED products are covered under these patents.

#### SPECIFICATIONS

#### SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PART NUMBER	LED EMITTING COLOR	COLOR TEMPERATURE	INPUT Voltage	MODULE LENGTH	CURRENT PER MODULE	WATTS PER MODULE	MAX. MODULE PER 1 AMP	TOTAL Candela	TOTAL LUMENS	EFFICACY	FULL BEAM Angle
<b>6"TUBE</b> – One end has wire leads											
TBL506F-TPW-012V-UL	True White	4800K~5200K	12VDC	6 in.	0.060mA	0.72W	16	-	-	-	Diffused
6"TUBE – Wire leads at both ends											
TBL506FC-TPW-012V-UL	True White	4800K~5200K	12VDC	6 in.	0.060mA	0.72W	16	-	-	-	Diffused
12"TUBE – One end has wire leads											
TBL512F-TPW-012V-UL	True White	4800K~5200K	12VDC	12 in.	0.123mA	1.5W	8	19.2 cd	82 lm	54.7 lm/W	Diffused
12"TUBE – Wire leads at both ends											
TBL512FC-TPW-012V-UL	True White	4800K~5200K	12VDC	12 in.	0.123mA	1.5W	8	19.2 cd	82 lm	54.7 lm/W	Diffused
24" TUBE – One end has wire leads											
TBL524F-TPW-012V-UL	True White	4800K~5200K	12VDC	24 in.	0.176mA	2.1W	4	27.2 cd	111 lm	52.8 lm/W	Diffused
24"TUBE – Wire leads at both ends											
TBL524FC-TPW-012V-UL	True White	4800K~5200K	12VDC	24 in.	0.176mA	2.1W	4	27.2 cd	111 lm	52.8 lm/W	Diffused
48" TUBE – One end has wire leads											
TBL548F-TPW-012V-UL	True White	4800K~5200K	12VDC	48 in.	0.411mA	4.9W	2	100.4 cd	431 lm	88.0 lm/W	Diffused
48" TUBE – Wire leads at both ends											
TBL548FC-TPW-012V-UL	True White	4800K~5200K	12VDC	48 in.	0.411mA	4.9W	2	100.4 cd	431 lm	88.0 lm/W	Diffused







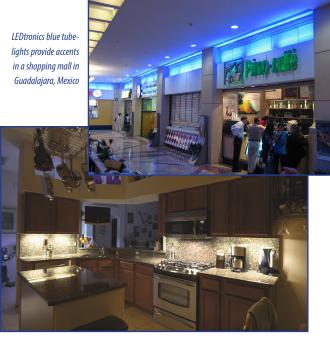
23105 Kashiwa Court, Torrance, CA 90505 Phone: (800) 579.4875 / (310) 534.1505 Fax: (310) 534.1424 E-mail: info@ledtronics.com Website: ledtronics.com



### TBL5xxF(C)-TPW-012V-UL

#### **APPLICATIONS**

- **Recreational Vehicle Interiors**
- Marine Recreation Applications
- Bus/Shuttle/Railcar Passenger Interiors
- Uninterrupted Emergency Lighting
- Focused Reading & Task Lighting
- Interior Design Uses / Concealed Accent Lighting



- Retail Store Displays, Undercounter/ Undercabinet Lighting
- Cubicle/Workbench Lighting
- Coolers, Freezers

- Closet Illumination
- Cove Lighting
- Edge Lighting

#### **CUSTOM OPTIONS** [For qualified applications & large-quantity OEM orders]

- Special Operating Voltages
- Choice of Narrow (15°), Medium (30°) or Wide-Angle (125°) Beam-Width LEDs
- Frosted Tube Housings for Diffused
- Different-Color LEDs or White-Color Temperatures

#### **BENEFITS**

- Major Power Savings: Up to 90% Compared to Incandescents
- Even Lighting: High Intensity / No Halation
- Safer: No Harmful UV or IR; No Threat of High-Voltage Electrocution; No Danger of Broken Glass
- **Eco-Friendly:** No Hazard of Mercury or Lead Entering the Environment
- Reduces Light Pollution, Enhances Night Vision
- No RF Interference

- Cool Operation: LEDs Produce Little or No Heat
- **Quiet:** No Buzzing Noise, No Fluorescent Flickering
- Instant Lighting from a Cold Start
- Maintenance-Free



#### ■ POWER SUPPLIES / LED DRIVERS

- UL Recognized (US & Canada) Modular & Wall Socket Power Supplies
- 120VAC-to-12VDC / 1 Amp to 5.2 Amps





- PWR-LP1020-12 20W - 90/264VAC-to-12VDC
- PWR-LP1025-12 25W - 100/277VAC-to-12VDC
- PWR-12VCV-3.33A-PF 40W - 90/264VAC-to-12VDC
- PWR-LP1060-12 60W - 90-264VAC-to-12VDC / 5.0A
- PWR-LP1090-12-001 96W - 90-264/277VAC-to-12VDC / 5.0A
- PLT-1003-301
- 12W 120VAC-to-12VDC
- PLT-1003-303 28.8W - 100-240VAC-to-12VDC / 2.4A
- PLT-1003-304 62.4W - 100-240VAC-to-12VDC / 5.2A

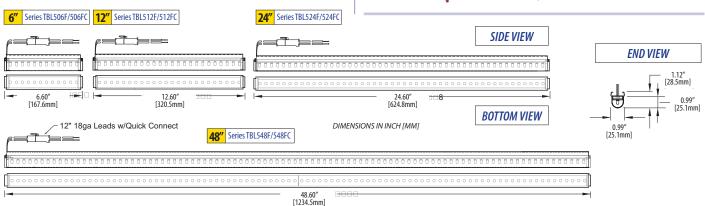
#### ACCESSORIES

■ 12-inch Wire with Female Coaxial Connector ADPT-STP-002



Additional Mounting Clips for Flat Surfaces MTG-CLIP-STP-001







Distance in units of mount height

20 fc 10 fc

2.5 fc 0.5 fc

0.2 fc

Mount height: 10ft Total LLF: 1

Distance in units of mount height

# TBL512F(C)-TPW-012V-UL

## **Luminaire Photometric Report** Filename: TBL512F-TPW-012V-UL TBL512FC-TPW-012V-UL

Luminaire Cat: TBL512F-TPW-012V-UL TBL512FC-TPW-012V-UL Manufacturer: LEDTRONICS -Luminaire: FROSTED LENS, 1.5W, 12VDC Lamp: . LUMEN RATING: 82.1Lms.

> to 8

uminous Opening: Point Max Candela: 19.2 at Horizontal: 67.5, Vertical: 0 Lamp Output: 1 lamp(s), rated lamp lumens: 82.1

Test: 3-29-10

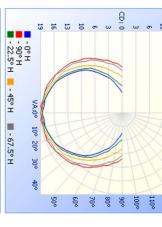
0-90 0-30 0-40 0-60 Total Efficiency: 100.1% Zonal Lumen Summary Lumens % Lamp % Luminaire 82.1 100.1% 82.1 100.1% 32.4 39.5% 49.7 60.6% 25.6 31.2% 15.2 18.5% Illuminance at a Distance
Center Beam FC Beam Width 60.6% 39.4% 31.2% 18.4% 100% 100%

60-90

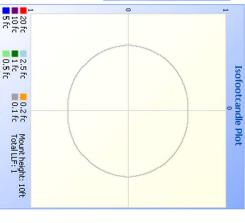
42.3 38.1% 68.6 61.9% 35.8 32.3% 21.4 19.3%

61.9% 38.1% 32.3% 19.3%

0-90 9 9-40 8 Zone



Lumens % Lamp % Luminaire



Beam Spread: 131.8°

0.19 fc 0.27 fc

> 37.3ft 29.8ft

5.00

0.42 fc 0.75 fc 1.69 fc 6.77 fc

14.9ft 7.5ft

## Polar Candela Distribution 180° 170° 160° 150° 140° 120°

Luminous Opening: Point Zonal Lumen Summary

Test: 3-29-10

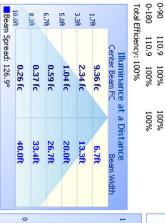
Max Candela: 27.2 at Horizontal: 45, Vertical: 0 Lamp: . LUMEN RATING: 110.9Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 110.9

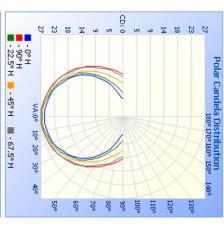
Luminaire Cat: TBL524F-TPW-012V-UL TBL524FC-TPW-012V-UL

Luminaire: FROSTED LENS, 2.1W, 12VDC

Filename: TBL524FC-TPW-012V-UL TBL524F-TPW-012V-UL Manufacturer: LEDTRONICS -**Luminaire Photometric Report** 

200	0.26 fc	8.3ft 0.37 fc	6.7ft 0.59 fc		3.3ft 2.34 fc	1.7ft 9.36 fc	Illuminance Center Beam FC	Total Efficiency: 100%
	6 fc	7 fc	9 fc	1.04 fc	4 fc	6 fc	Illuminance at a Distance enter Beam FC Be	0"
	40.0ft	33.4ft	26.7ft	20.0ft	13.3ft	6.7ft	stance Beam Width	





# **TBL524F(C)-TPW-012V-UL**

Isofootcandle Plot



#### TBL548F(C)-TPW-012V-UL

#### **Luminaire Photometric Report**

Filename: TBL548F-TPW-012V-UL TBL548FC-TPW-012V-UL

Manufacturer: LEDTRONICS -

Luminaire: FROSTED LENS, 4.9W, 12VDC

Luminaire Cat: TBL548F-TPW-012V-UL

TBL548FC-TPW-012V-UL

Lamp: . LUMEN RATING: 431.3Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 431.3 Max Candela: 100.4 at Horizontal: 67.5, Vertical: 0

Luminous Opening: Point

Test: 3-29-10

#### **Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Luminaire
0-30	79.9	18.5%	18.5%
0-40	134.7	31.2%	31.2%
0-60	261.6	60.7%	60.7%
60-90	169.7	39.4%	39.3%
0-90	431.3	100%	100%
0-180	431.3	100%	100%

Total Efficiency: 100%

