



Double-Power White Hi-Flux LED Tube Lights / UL-Listed, 12VDC

TBL5xx(F)C-DP-TPW-012W-UL

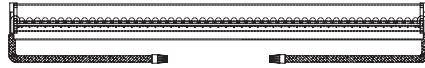


Clear or Frosted White Tube — Lengths 6"/12"/24"/48" — 110° Wide Beam

Energy-Efficient, Twice-Powerful Replacements for Incandescent/Fluorescent Lamps

FEATURES

- **Lamp Warranty:** 3 Years
- **Long Operating Life:** Continuous Burn — White LED up to 50,000+ Hours
- **Input Voltage:** 12VDC — Runs on Solar Cells, 12V Batteries or 120VAC-to-12VDC Power-Pack Converters
- **Safety Assurance:** UL-Listed
- **True White Color Temperature:** 5000K — 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
- Instant Lighting from a Cold Start
- **Even Lighting:** High Intensity / No Halation
- **Easy Installation:** Quick Mounting Brackets Provide Troublefree Setup & Lower Installation Costs
- **Wide Ambient Operating Temp. Range:** ~-22°F to ~+122°F [~-30°C to ~+50°C]



20-gauge Positive and Negative Leads with Protective Braided Sleeves and Wire Nuts



WATERCLEAR LENS/110° BEAM



FROSTED LENS/DIFFUSED BEAM

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

BENEFITS

- **Major Power Savings:** Up to 90% Compared to Incandescents
- **Safer:** No Harmful UV or IR; No Threat of High-Voltage Electrocution; No Danger of Broken Glass
- **Eco-Friendly:** Contains No Mercury or Lead
- Reduces Light Pollution, Enhances Night Vision
- No RF Interference
- **Cool Operation:** LEDs Produce Little or No Heat
- **Quiet:** No Buzzing Noise, No Fluorescent Flickering
- Maintenance-Free

Patent No.: US 6,997,576 B1



SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

(*Full Beam Width @ 50% Intensity)

PART NUMBER	INPUT VOLTAGE	MODULE LENGTH	CURRENT /MODULE	WATTS /MODULE	EFFICACY	MAX. MODULE /1 AMP	MAXIMUM CANDELAS	TOTAL LUMENS	CRI	COLOR TEMP.	LED EMITTING COLOR	VIEWING ANGLE*	WEIGHT
WATERCLEAR TUBE LENS — WIRE LEADS AT BOTH ENDS — ~110° WIDE BEAM													
TBL506C-DP-TPW-012W-UL	12VDC	6 in.	0.111 A	1.40	66.6 lm/W	8	31.6 cd	93.3 lm	75	4800K~5200K	True White	110°	68.0 g
TBL512C-DP-TPW-012W-UL	12VDC	12 in.	0.206 A	2.50	64.8 lm/W	4	50.9 cd	162.1 lm	75	4800K~5200K	True White	110°	90.7 g
TBL524C-DP-TPW-012W-UL	12VDC	24 in.	0.384 A	4.65	89.5 lm/W	2	121.0 cd	416.3 lm	75	4800K~5200K	True White	110°	181.4 g
TBL548C-DP-TPW-012W-UL	12VDC	48 in.	0.788 A	9.40	86.7 lm/W	1	229.6 cd	815.3 lm	75	4800K~5200K	True White	110°	328.8 g
FROSTED TUBE LENS — WIRE LEADS AT BOTH ENDS — DIFFUSED BEAM													
TBL506FC-DP-TPW-012W-UL	12VDC	6 in.	0.106 A	1.30	53.5 lm/W	8	18.7 cd	69.6 lm	75	4800K~5200K	True White	Diffused	68.0 g
TBL512FC-DP-TPW-012W-UL	12VDC	12 in.	0.217 A	2.50	47.7 lm/W	4	30.1 cd	119.3 lm	75	4800K~5200K	True White	Diffused	90.7 g
TBL524FC-DP-TPW-012W-UL	12VDC	24 in.	0.408 A	4.90	61.5 lm/W	2	63.2 cd	301.6 lm	75	4800K~5200K	True White	Diffused	181.4 g
TBL548FC-DP-TPW-012W-UL	12VDC	48 in.	0.803 A	9.60	69.6 lm/W	1	147.2 cd	668.1 lm	75	4800K~5200K	True White	Diffused	328.8 g

LEDTRONICS®
Creating the Future of Light Since 1983™

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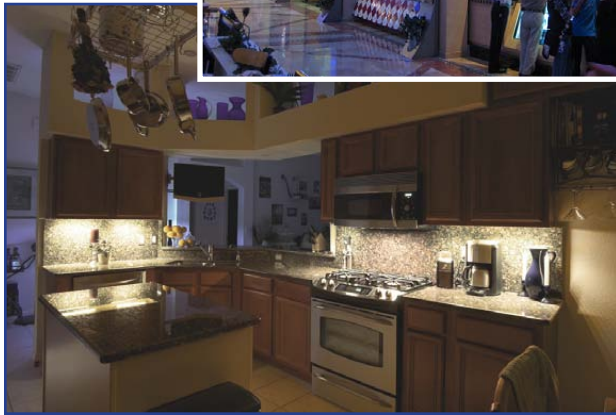
106 268 / Rev 2-2012

Check LEDTRONICS.COM for latest data.
Printed material may be outdated.

APPLICATIONS

- Sign, Backing Lighting & Lightbox Applications
- Marine Rec Vehicle Applications
- Recreational Vehicle Interiors & Uninterrupted Emergency Lighting
- Focused Reading & Task Lighting

LEDtronics blue tube-lights serve as accents in a shopping mall in Guadalajara, Mexico

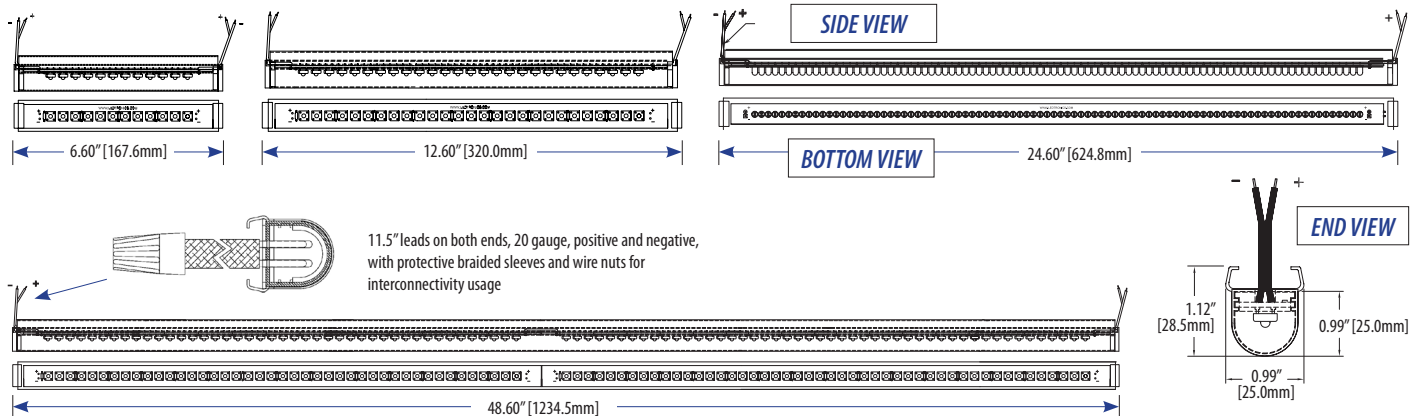


- Cubicle/Workbench Lighting
- Interior Design Uses / Concealed Accent Lighting
- Retail Store Displays, Undercounters/ Undercabinets
- Closet Illumination
- Coolers & Freezers
- Cove Lighting, Edge Lighting
- Bus Interiors

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

- Quick-Connect Power Connections
- Choice of Narrow (15°) or Medium (30°) Beam-Width LEDs
- Special Operating Voltages
- Different-Color LEDs or White-Color Temperatures

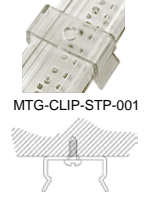
DIMENSIONS



MOUNTING

- **Each Module Comes With** two (2) Mounting Clips for 6" and 12", four (4) for 24" tubes, and eight (8) Clips for 48" tubes (Additional clips can be ordered)
- **Suggested Mounting:** Velcro, Adhesive, Brackets, Straps
- Both paired ends of negative and positive leads are protected with a braided sleeve and capped with wire nuts
- The wire nuts can be used to daisychain the modules—Red wire to Red wire, Black wire to Black wire.

Additional Mounting Clips for flat surfaces



POWER SUPPLIES / LED DRIVERS

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



ACCESSORIES

- 12-inch Wire with Female Coaxial Connector ADPT-STP-002
- Additional Mounting Clips for Flat Surfaces MTG-CLIP-STP-001



TBL506C-DP-TPW-012W-UL

Luminaire Photometric Report

Filename: TBL506C-DP-TPW-012W-UL

Manufacturer: LEDTRONICS -

Luminaire: CLEAR LENS, 1.4W, 12VDC

Luminaire Cat: TBL506C-DP-TPW-012W-UL

Lamp: LUMEN RATING: 93.3Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 93.3

Max Candela: 31.6 at Horizontal: 90, Vertical: 0

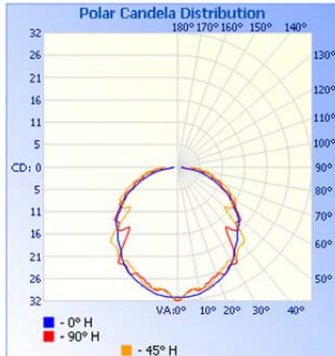
Luminous Opening: Point

Test: 11-9-10

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	23.2	24.8%	24.9%
0-40	38.1	40.8%	40.8%
0-60	67.7	72.6%	72.6%
60-90	25.5	27.4%	27.4%
0-90	93.3	100%	100%
90-180	0	0%	0%
0-180	93.3	100%	100%

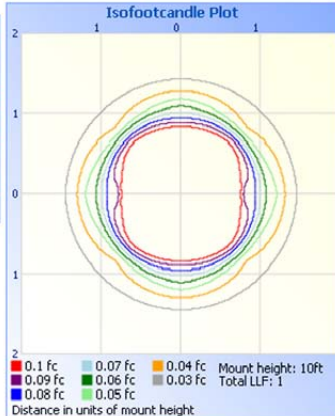
Total Efficiency: 100%



Illuminance at a Distance

Center Beam FC	Beam Width
11.05 fc	4.9ft 5.1ft
2.76 fc	9.9ft 10.3ft
1.23 fc	14.8ft 15.4ft
0.69 fc	19.8ft 20.6ft
0.44 fc	24.7ft 25.7ft
0.31 fc	29.7ft 30.8ft

Vert. Spread: 112.0° Horiz. Spread: 114.1°



TBL512C-DP-TPW-012W-UL

Luminaire Photometric Report

Filename: TBL512C-DP-TPW-012W-UL

Manufacturer: LEDTRONICS -

Luminaire: CLEAR LENS, 2.5W, 12VDC

Luminaire Cat: TBL512C-DP-TPW-012W-UL

Lamp: LUMEN RATING: 162.1Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 162.1

Max Candela: 50.9 at Horizontal: 90, Vertical: 8

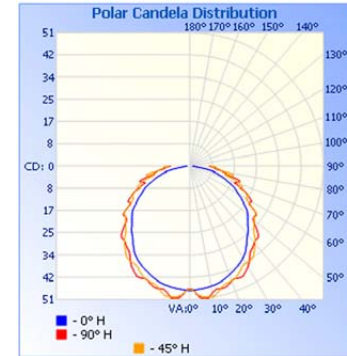
Luminous Opening: Point

Test: 11-10-10

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	38.6	23.8%	23.8%
0-40	63.9	39.4%	39.4%
0-60	115.7	71.4%	71.4%
60-90	46.4	28.6%	28.6%
0-90	162.1	100%	100%
90-180	0	0%	0%
0-180	162.1	100%	100%

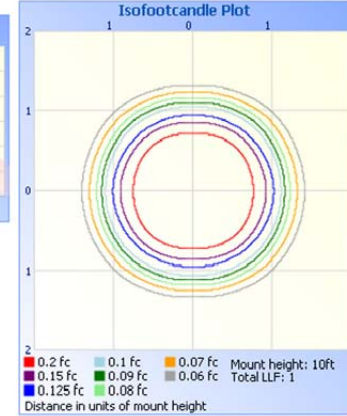
Total Efficiency: 100%



Illuminance at a Distance

Center Beam FC	Beam Width
17.10 fc	4.9ft 6.3ft
4.28 fc	9.8ft 12.7ft
1.90 fc	14.7ft 19.0ft
1.07 fc	19.6ft 25.4ft
0.68 fc	24.5ft 31.7ft
0.48 fc	29.4ft 38.1ft

Vert. Spread: 111.6° Horiz. Spread: 124.6°



TBL524C-DP-TPW-012W-UL

Luminaire Photometric Report

Filename: TBL524C-DP-TPW-012W-UL

Manufacturer: LEDTRONICS -

Luminaire: WITH CLEAR LENS, 12VDC, 4.65W

Luminaire Cat: TBL524C-DP-TPW-012W-UL

Lamp: LUMEN RATING: 416.3Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 416.3

Max Candela: 121.0 at Horizontal: 157.5, Vertical: 10

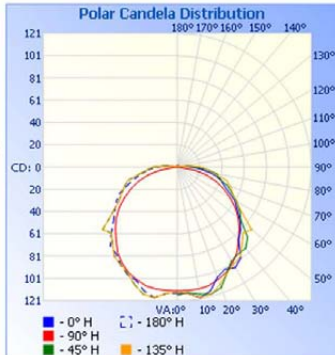
Luminous Opening: Point

Test: 1-28-09

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	93.2	22.4%	22.4%
0-40	154.2	37.1%	37.1%
0-60	280.0	67.3%	67.3%
60-90	119.2	28.6%	28.6%
0-90	399.2	95.9%	95.9%
90-180	17.1	4.1%	4.1%
0-180	416.3	100%	100%

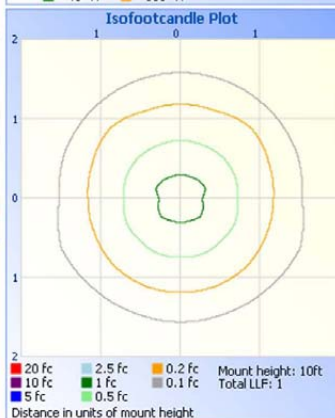
Total Efficiency: 100%



Illuminance at a Distance

Center Beam FC	Beam Width
41.04 fc	5.9ft 5.2ft
10.26 fc	11.8ft 10.5ft
4.56 fc	17.8ft 15.7ft
2.57 fc	23.7ft 20.9ft
1.64 fc	29.6ft 26.2ft
1.14 fc	35.5ft 31.4ft

Vert. Spread: 121.2° Horiz. Spread: 115.0°



TBL548C-DP-TPW-012W-UL

Luminaire Photometric Report

Filename: TBL548C-DP-TPW-012W-UL

Manufacturer: LEDTRONICS -

Luminaire: CLEAR LENS, 9.4W, 12VDC

Luminaire Cat: TBL548C-DP-TPW-012W-UL

Lamp: LUMEN RATING: 815.3Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 815.3

Max Candela: 229.6 at Horizontal: 90, Vertical: 10

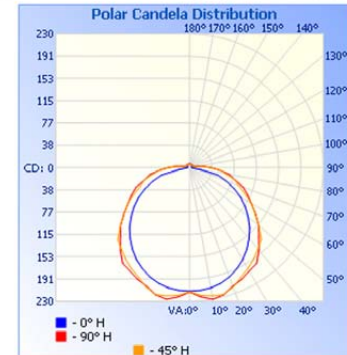
Luminous Opening: Point

Test: 11-11-10

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	177.4	21.8%	21.8%
0-40	295.1	36.2%	36.2%
0-60	540.7	66.3%	66.3%
60-90	220.5	27%	27%
0-90	761.2	93.4%	93.4%
90-180	54.0	6.6%	6.6%
0-180	815.3	100%	100%

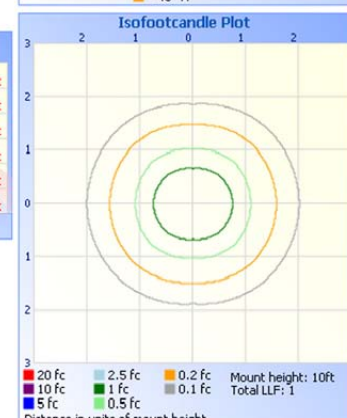
Total Efficiency: 100%



Illuminance at a Distance

Center Beam FC	Beam Width
76.32 fc	5.1ft 6.6ft
19.08 fc	10.2ft 13.3ft
8.48 fc	15.3ft 19.9ft
4.77 fc	20.4ft 26.5ft
3.05 fc	25.5ft 33.1ft
2.12 fc	30.6ft 39.8ft

Vert. Spread: 113.6° Horiz. Spread: 126.6°



TBL506FC-DP-TPW-012W-UL

Luminaire Photometric Report

Filename: TBL506FC-DP-TPW-012W-UL

Manufacturer: LEDTRONICS -

Luminaire: FROSTED LENS, 1.3W, 12VDC

Luminaire Cat: TBL506FC-DP-TPW-012W-UL

Lamp: LUMEN RATING: 69.6Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 69.6

Max Candela: 18.7 at Horizontal: 0, Vertical: 0

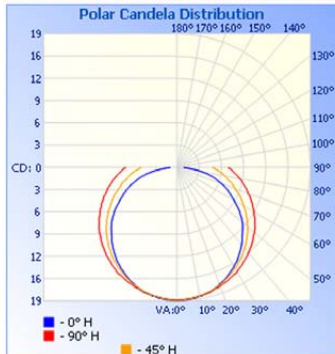
Luminous Opening: Point

Test: 11-10-10

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	14.7	21.1%	21.1%
0-40	24.5	35.2%	35.1%
0-60	45.9	66%	66%
60-90	23.7	34.1%	34%
0-90	69.6	100.1%	100%
90-180	0	0%	0%
0-180	69.6	100.1%	100%

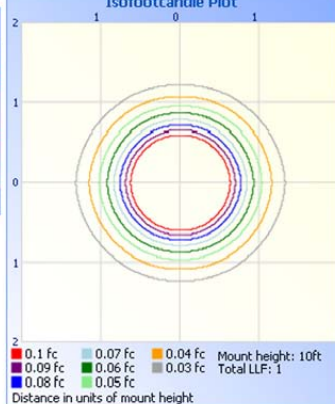
Total Efficiency: 100.1%



Iluminance at a Distance

Center Beam FC	Beam Width
6.73 fc	5.8ft 15.0ft
1.68 fc	11.5ft 30.1ft
0.75 fc	17.3ft 45.1ft
0.42 fc	23.1ft 60.1ft
0.27 fc	28.9ft 75.2ft
0.19 fc	34.6ft 90.2ft

Vert. Spread: 120.0° Horiz. Spread: 155.0°



TBL512FC-DP-TPW-012W-UL

Luminaire Photometric Report

Filename: TBL512FC-DP-TPW-012W-UL

Manufacturer: LEDTRONICS -

Luminaire: FROSTED LENS, 2.5W, 12VDC

Luminaire Cat: TBL512FC-DP-TPW-012W-UL

Lamp: LUMEN RATING: 119.3Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 119.3

Max Candela: 30.1 at Horizontal: 0, Vertical: 0

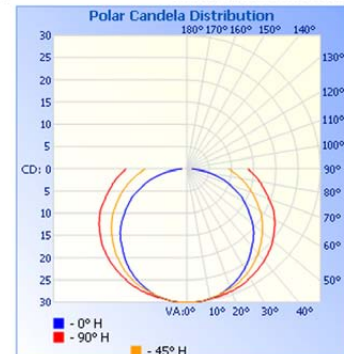
Luminous Opening: Point

Test: 11-10-10

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	24.1	20.2%	20.2%
0-40	40.5	33.9%	33.9%
0-60	77.3	64.8%	64.7%
60-90	42.1	35.3%	35.3%
0-90	119.3	100%	100%
90-180	119.3	100%	100%

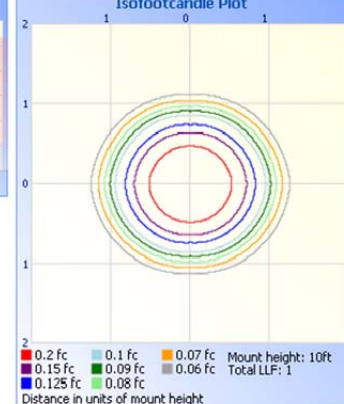
Total Efficiency: 100%



Iluminance at a Distance

Center Beam FC	Beam Width
10.84 fc	5.9ft 43.6ft
2.71 fc	11.8ft 87.1ft
1.20 fc	17.8ft 130.7ft
0.68 fc	23.7ft 174.3ft
0.43 fc	29.6ft 217.8ft
0.30 fc	35.5ft 261.4ft

Vert. Spread: 121.3° Horiz. Spread: 171.3°



TBL524FC-DP-TPW-012W-UL

Luminaire Photometric Report

Filename: TBL524FC-DP-TPW-012W-UL

Manufacturer: LEDTRONICS -

Luminaire: FROSTED LENS, 4.9W, 12VDC

Luminaire Cat: TBL524FC-DP-TPW-012W-UL

Lamp: LUMEN RATING: 301.6Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 301.6

Max Candela: 63.2 at Horizontal: 90, Vertical: 13

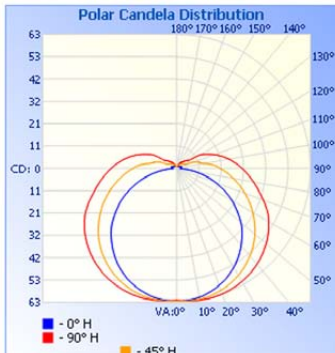
Luminous Opening: Point

Test: 11-11-10

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	51.1	16.9%	16.9%
0-40	86.1	28.5%	28.5%
0-60	165.1	54.8%	54.8%
60-90	91.0	30.2%	30.2%
0-90	256.1	84.9%	84.9%
90-180	45.5	15.1%	15.1%
0-180	301.6	100%	100%

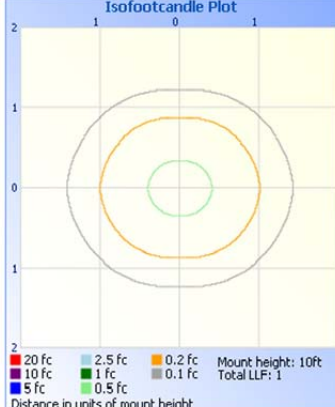
Total Efficiency: 100%



Iluminance at a Distance

Center Beam FC	Beam Width
22.54 fc	6.3ft 184.6ft
5.63 fc	12.5ft 369.2ft
2.50 fc	18.8ft 553.8ft
1.41 fc	25.1ft 738.4ft
0.90 fc	31.4ft 923.0ft
0.63 fc	37.6ft 1,107.6ft

Vert. Spread: 124.0° Horiz. Spread: 177.9°



TBL548FC-DP-TPW-012W-UL

Luminaire Photometric Report

Filename: TBL548FC-DP-TPW-012W-UL

Manufacturer: LEDTRONICS -

Luminaire: FROSTED LENS, 9.6W, 12VDC

Luminaire Cat: TBL548FC-DP-TPW-012W-UL

Lamp: LUMEN RATING: 668.1Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 668.1

Max Candela: 147.2 at Horizontal: 90, Vertical: 0

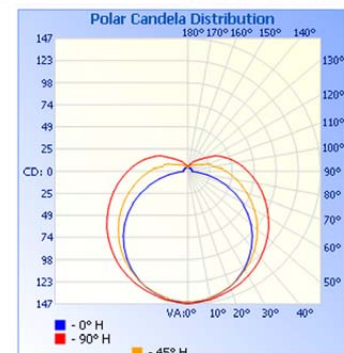
Luminous Opening: Point

Test: 11-11-10

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	114.8	17.2%	17.2%
0-40	191.5	28.7%	28.7%
0-60	360.1	53.9%	53.9%
60-90	190.2	28.5%	28.5%
0-90	550.3	82.4%	82.4%
90-180	117.8	17.6%	17.6%
0-180	668.1	100%	100%

Total Efficiency: 100%



Iluminance at a Distance

Center Beam FC	Beam Width
52.27 fc	5.4ft 32.6ft
13.07 fc	10.8ft 65.2ft
5.81 fc	16.2ft 97.8ft
3.27 fc	21.7ft 130.4ft
2.09 fc	27.1ft 163.0ft
1.45 fc	32.5ft 195.6ft

Vert. Spread: 116.8° Horiz. Spread: 168.3°

