TSWXP SERIES 12" EXPLOSION PROOF LINEAR

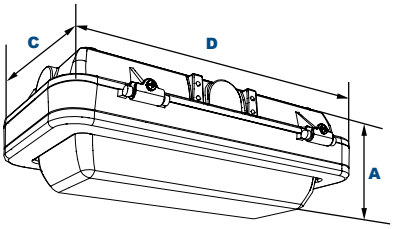
Project:	
Type:	
Catalog #:	

Class 1, Division 2
Groups A, B, C, D
T4 Temperature Rating

TSWXP12-H

TSWXP12-V

TSWXP12-O



SPECIFICATIONS AND FEATURES

The TSWXP 12" series is a hazardous location luminaire, rated for Class 1, Division 2 explosion proof applications. Wall and ceiling mount options are available, as well as, clear or diffused polycarbonate lenses. Open, vertical half, or horizontal half door frames designed to replace HID lighting systems from 70w to 175w MH or HPS. Typical lighting applications include industrial facilities, oil, gas, painting facilities, and auto service facilities. Mounting heights of 8 to 18 feet can be used based on light level and uniformity requirements.

HOUSING

Heavy-Duty Die Cast Aluminum Housing and Top Frame, with ½" Tapped Coin Plug Openings for Wiring Entrance Conduits.

LISTING & RATINGS

ETL Listed for Hazardous Locations Per UL844 as Follows:
Class 1, Division 2 Groups A, B, C, D; T4 Temperature Rating
Suitable for Wet Locations.

FINISH

Platinum Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

LENS

Clear UV-Stabilized Polycarbonate or Diffused Opal UV-Stabilized Polycarbonate Vandal-Resistant Lens

MOUNTING OPTIONS

Mount with Stainless Steel Adjustable Bracket or Yoke. Rated for 6 #12 AWG 90°C for Through Wiring.

LED

Aluminum Boards

WATTAGE

22w: Array: 22w, System: 26.4w; (70w HID Equivalent)
37w: Array: 37.2w, System: 43.4w; (175w HID Equivalent)

DRIVER

Electronic Driver, 120-277V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection is 2kV for 22w, 6kV for 37w. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

WARRANTY

5-Year Warranty for -25°C to +40°C Environment.

See Page 3 for Projected Lumen Maintenance Table.

Dimensions	
Width (D)	12⅛" (309mm)
Length (C)	7" (178mm)
Height (A)	**TSWXP12-O:** 4" (102mm) **TSWXP12-H & TSWXP12-V:** 4¼" (107mm)

Order Information:

Model	Housing	Wattage	Driver	CCT	Lens	Color
TSWXP12	**H**=Horizontal Hood **O**=Open Frame **V**=Vertical Hood	**2**=22w **3**=37w	**LV**=120-277V	**I**=4000K **C**=5000K	**C**=Clear UV-Stabilized Polycarbonate Vandal-Resistant Lens **D**=Diffused Lens Opal UV-Stabilized Polycarbonate Vandal-Resistant Lens	**P**=Platinum **C**=Custom (Consult Factory)

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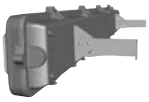
Accessories & Replacement Parts:



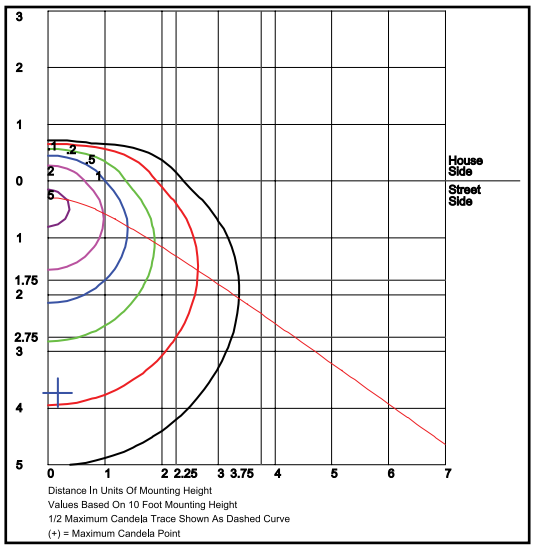
AM*

YK*

*Shown Mounted

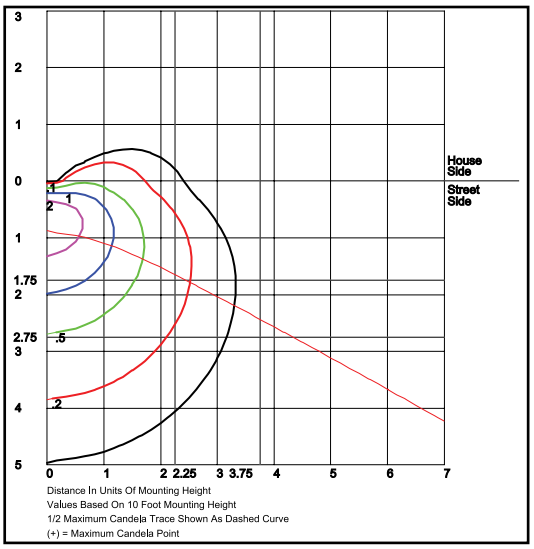
Mounting Accessories (Order Separately, Field Installed)	
AM	Stainless Steel Adjustable Bracket, Set of Two
YK	Stainless Steel Yokes for TSWXP includes Hardware.

Photometric Data for Wall Light Applications



TSWXP12-H Diffused Lens

Grid in MH
MH=10 Feet



TSWXP12-V Diffused Lens

Grid in MH
MH=10 Feet

Photometric Performance for Wall Light Applications

				5000 CCT 80 CRI					4000 CCT 80 CRI				
LED Board Watts	Drive Current (mA)	Input Watts	Optics	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
22w (Clear Lens)	116	26	Horizontal Frame -Type III	3,126	120	1	2	1	3,001	115	1	2	1
22w (Diffused Lens)			Horizontal Frame -Type IV	2,369	91	1	3	2	2,274	88	1	3	1
22w (Clear Lens)			Vertical Frame -Type III	3,305	127	1	2	1	3,172	122	1	2	1
22w (Diffused Lens)			Vertical Frame -Type III	2,705	104	1	3	1	2,597	100	1	3	1
37w (Clear Lens)		43	Horizontal Frame -Type III	4,879	114	2	3	2	4,684	109	2	3	2
37w (Diffused Lens)			Horizontal Frame -Type IV	4,071	95	1	3	2	3,908	91	1	3	2
37w (Clear Lens)			Vertical Frame -Type II	5,292	123	2	3	1	5,081	118	2	3	1
37w (Diffused Lens)			Vertical Frame -Type II	4,399	102	2	3	2	4,223	98	1	3	2

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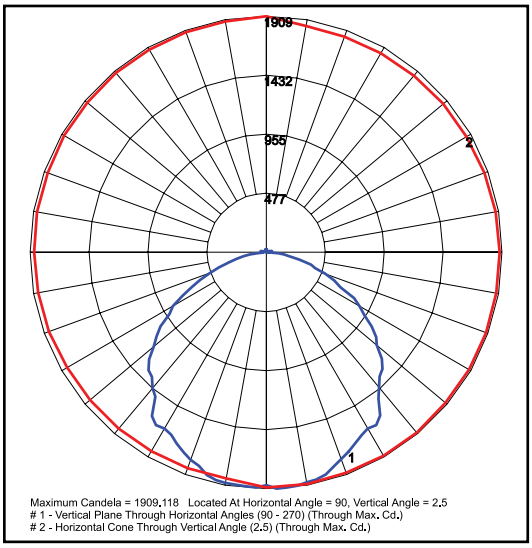
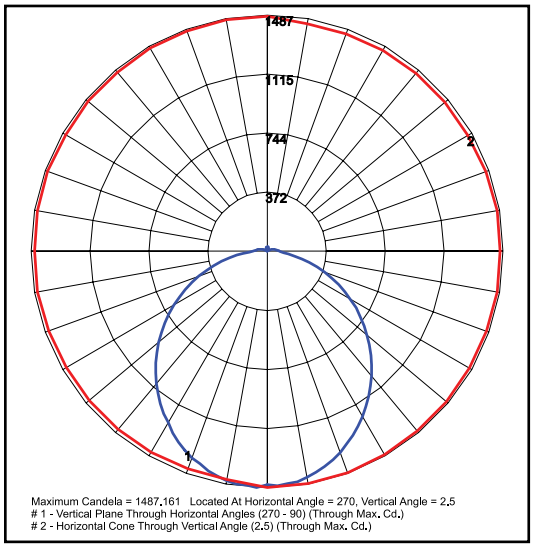
Photometric Data for Canopy/Ceiling Light Applications



TSWXP12-O Clear Lens



TSWXP12-O Diffused Lens

Photometric Performance for Canopy/Ceiling Light Applications

					5000 CCT 80 CRI		4000 CCT 80 CRI	
LED Board Watts	Drive Current (mA)	Input Watts	Optics	Spacing Criteria	Lumens	LPW	Lumens	LPW
22w (Clear Lens)	116	26	Open Frame (110° x 110°)	1.34	3,332	128	3,199	123
22w (Diffused Lens)			Open Frame (110° x 120°)	1.26	2,945	113	2,828	109
37w (Clear Lens)		43	Open Frame (110° x 110°)	1.26	5,538	129	5,316	124
37w (Diffused Lens)			Open Frame (110° x 120°)	1.26	4,948	115	4,750	111

Projected Lumen Maintenance

Data shown for 5000 CCT			Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 43w	1.00	0.96	0.92	0.84	187,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.94	0.88	0.79	84,000

NOTES:
1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 116mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.