

Project:	
Type:	
Catalog #:	



SPECIFICATIONS AND FEATURES

The TSW12 series wall, pendant and ceiling mount luminaire is available with clear or diffused lenses, and 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 retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical 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. Can Be Tapped for Side Conduit Entry.

LISTING & RATINGS

CSA: Listed for Wet Locations, ANSI/UL 1598, 8750
IP66 Sealed LED Compartment.

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

Surface Mount or Use Optional 1/2" NPS Adjustable Threaded Knuckle, Stainless Steel Quick-Mount Bracket, Adjustable Bracket or Yoke.

LED

Aluminum Boards

WATTAGE

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

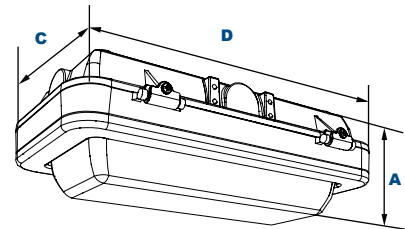
DRIVER

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 -40°C to +50°C Environment.

See Page 3 for Projected Lumen Maintenance Table.



Dimensions

Width (D)	12 1/8" (309mm)
Length (C)	7" (178mm)
Height (A)	TSW12-O: 4" (102mm) TSW12-H & TSW12-V: 4 1/4" (107mm)

Order Information:

Model	Housing	Wattage	Driver	CCT	Lens	Color
TSW12	H =Horizontal Hood O =Open Frame V =Vertical Hood	2 =22w 3 =37w	LV =120-277V	L =4000K C =5000K	C =Clear UV-Stabilized Polycarbonate Vandal-Resistant Lens D =Diffused Opal UV-Stabilized Polycarbonate Vandal-Resistant Lens	P =Platinum C =Custom (Consult Factory)

****See next page for mounting options.**

Accessories & Replacement Parts:



Mounting Accessories (Order Separately, Field Installed)

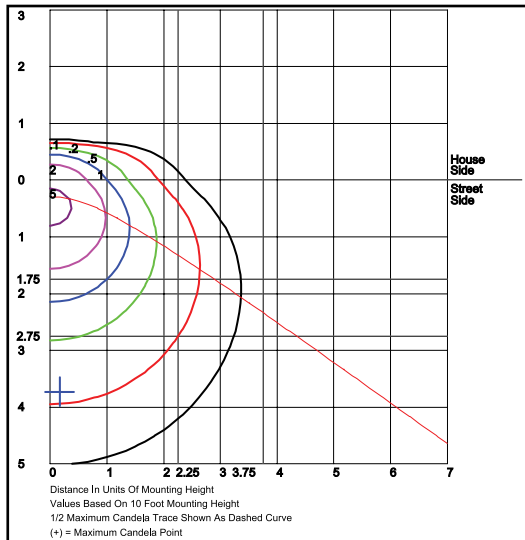
K	Stainless Steel Quick Mount Bracket
AM	Stainless Steel Adjustable Bracket, Set of Two
YK	Stainless Steel Yokes for TSW12, Includes Hardware.
QM	1/2" NPS Threaded Adjustable Knuckle, Gray Finish.

Replacement Parts (Order Separately, Field Installed)

DL	Diffused Opal UV-Stabilized Polycarbonate Vandal-Resistant Lens
CL	Clear UV-Stabilized Polycarbonate Vandal-Resistant Lens

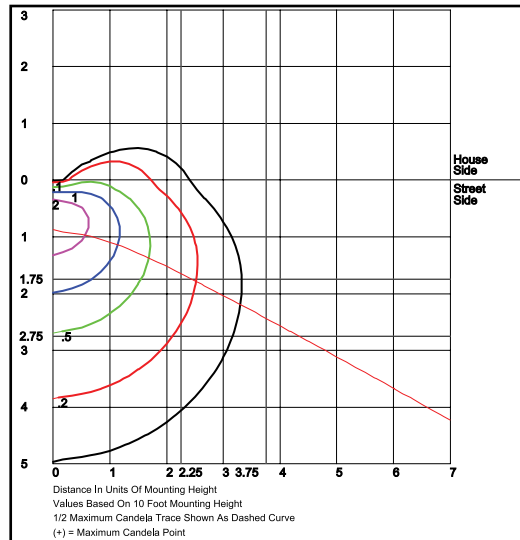
*Shown Mounted

Photometric Data for Wall Light Applications



TSW12-H
Wide Optic

Grid in MH
MH=10 Feet



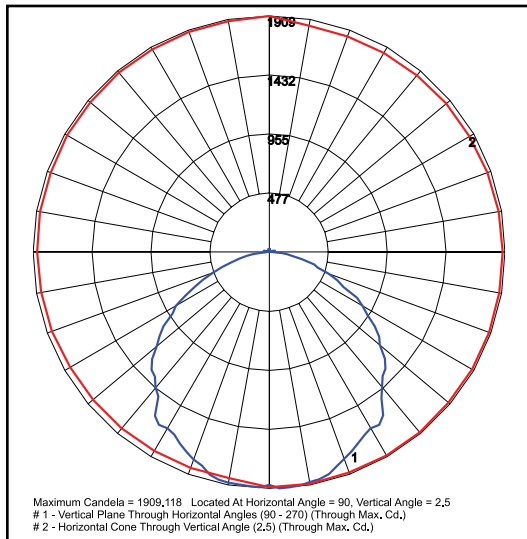
TSW12-V
Wide Optic

Grid in MH
MH=10 Feet

Photometric Performance for Wall Light Applications

LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI				
				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

Photometric Data for Canopy/Ceiling Light Applications



TSW12-O
Wide Optic

Photometric Performance for Canopy/Ceiling Light Applications

LED Board Watts	Drive Current (mA)	Input Watts	Optics	Spacing Criteria	5000 CCT 80 CRI		4000 CCT 80 CRI	
					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
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.93	0.86	0.72	109,000
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.