TSW Series *12" Linear LED Die Cast*

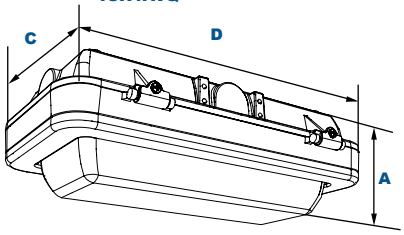
Project:	
Type:	
Catalog#:	

The TSW1A series wall, pendant and ceiling mount luminaire is available with clear or LumaLens 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. Mounting heights of 8 to 18 feet can be used based on light level and uniformity requirements.

TSW1AHQ

TSW1AOQ

TSW1AVQ



Specifications and Features:

Housing:
Heavy-Duty Die Cast Aluminum Housing and Top Frame. Can Be Tapped for Side Conduit Entry.

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

Lens:
Clear Polycarbonate Vandal-Resistant Lens or LumaLens Opal Polycarbonate Vandal- Resistant Lens

Mounting Options:
Surface Mount or Use Optional Quick-Mount Bracket

LED:
Aluminum Boards

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

Driver:
Electronic Driver, 120-277V, 50/60Hz; Dimmable Driver

Listing & Ratings:
CSA: Listed for Wet Locations, ANSI/UL 1598, 8750
IP66 Sealed LED Compartment
5-Year Warranty.

Dimensions	
Width (D)	12⅛″ (309mm)
Length (C)	7″ (178mm)
Height (A)	**TSW:** 4″ (102mm) **TSWH & TSWV:** 4¼″ (107mm)

Order Information Example: TSW1AOQF37U5KCGSP

	F						
Model	**Optics**	**Wattage**	**Driver**	**CCT**	**Lens**	**Color**	**Options**
TSWO= LED Open Frame 12" Linear LED Die Cast **TSWH**= LED Horizontal Hood 12" Linear LED Die Cast **TSWV**= LED Vertical Hood 12" Linear LED Die Cast	**F**=Wide	**22**=22w **37**=37w	**U**=120-277V	**5K**=5000K	**C**=Clear Polycarbonate Vandal-Resistant Lens **L**=LumaLens Opal Polycarbonate Vandal-Resistant Lens	**G**=Gray **C**=Custom (Consult Factory)	**SF**=Single Fuse **DF**=Double Fuse **SP**=Surge Protection

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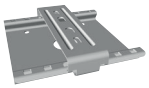
Accessories & Replacement Parts:

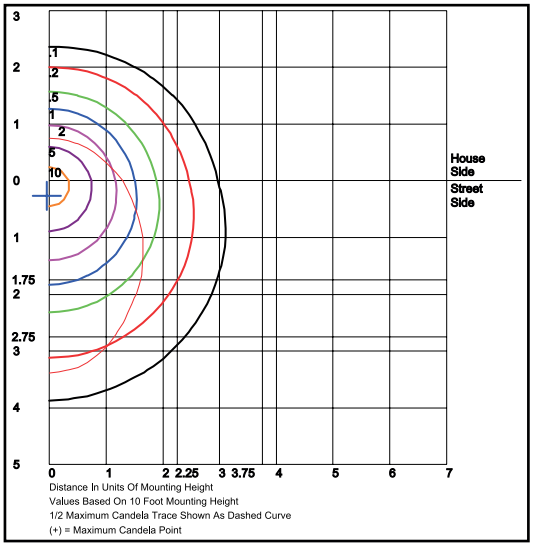


TSWAQM

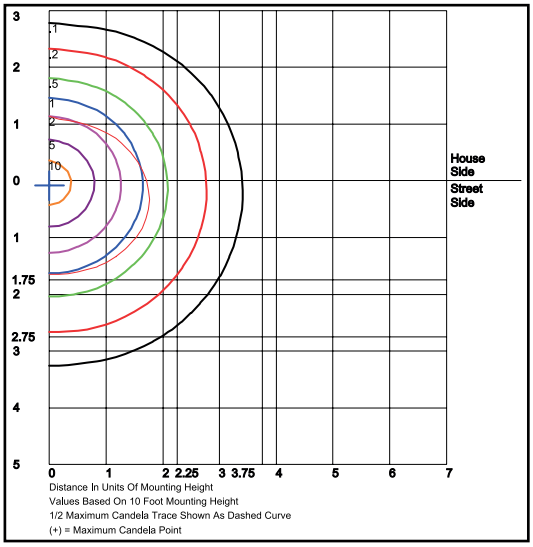
Mounting Accessories (Order separately, Field installed)

TSWAQM	Stainless Steel Quick Mount Bracket

Photometric Data for Wall Light Applications



TSWF37U5KL Wide Optic Grid in MH MH=10 Feet



TSWF37U5KL Wide Optic Grid in MH MH=10 Feet

Photometric Performance for Wall Light Applications

				5000 CCT 80 CRI				
LED Board Watts	**Drive Current (mA)**	**Input Watts**	**Optics**	**Lumens**	**LPW**	**B**	**U**	**G**
LED 22w (Clear Lens)	116	26	Horizontal Frame -Type III	3,126	120	1	2	1
LED 22w (LumaLens)			Horizontal Frame -Type IV	2,369	91	1	3	2
LED 22w (Clear Lens)			Vertical Frame -Type III	3,305	127	1	2	1
LED 22w (LumaLens)			Vertical Frame -Type III	2,705	104	1	3	1
LED 37w (Clear Lens)		43	Horizontal Frame -Type III	4,879	114	2	3	2
LED 37w (LumaLens)			Horizontal Frame -Type IV	4,071	95	1	3	2
LED 37w (Clear Lens)			Vertical Frame -Type II	5,292	123	2	3	1
LED 37w (LumaLens)			Vertical Frame -Type II	4,399	102	2	3	2

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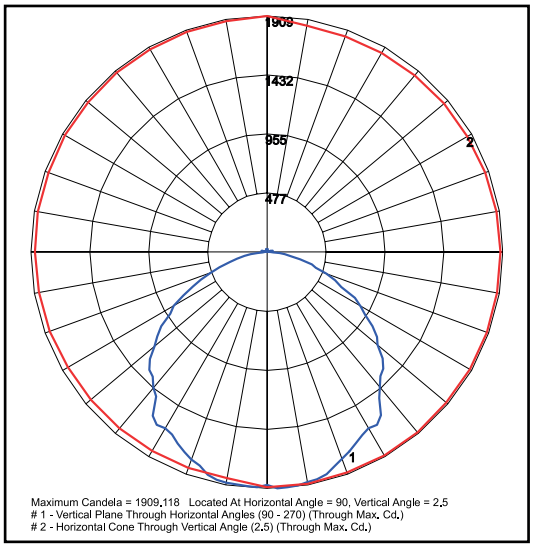
Photometric Data for Canopy/Ceiling Light Applications



TSWF37U5KC Wide Optic

Photometric Performance for Canopy/Ceiling Light Applications

					5000 CCT 80 CRI	
LED Board Watts	**Drive Current (mA)**	**Input Watts**	**Optics**	**Spacing Criteria**	**Lumens**	**LPW**
LED 22w (Clear Lens)	116	26	Open Frame (110° x 110°)	1.34	3,332	128
LED 22w (LumaLens)			Open Frame (110° x 120°)	1.26	2,945	113
LED 37w (Clear Lens)		43	Open Frame (110° x 110°)	1.26	5,538	129
LED 37w (LumaLens)			Open Frame (110° x 120°)	1.26	4,948	115

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 L70@ 25°C**
L70 Lumen Maintenance @ 25°C / 77°F	26	1.00	0.96	0.92	0.84	187,000
L70 Lumen Maintenance @ 25°C / 77°F	43	1.00	0.96	0.92	0.84	187,000
TM-21-11	**Input Watts**	**Initial**	**25,000 Hrs**	**50,000 Hrs**	**100,000 Hrs**	**Calculated L70@ 50°C**
L70 Lumen Maintenance @ 50°C / 122°F	26	1.00	0.94	0.88	0.75	121,000
L70 Lumen Maintenance @ 50°C / 122°F	43	1.00	0.93	0.86	0.72	109,000
TM-21-11	**Input Watts**	**Initial**	**25,000 Hrs**	**50,000 Hrs**	**100,000 Hrs**	**Calculated L80@ 40°C**
L80 Lumen Maintenance @ 40°C / 104°F	26	1.00	0.95	0.89	0.79	94,000
L80 Lumen Maintenance @ 40°C / 104°F	43	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.