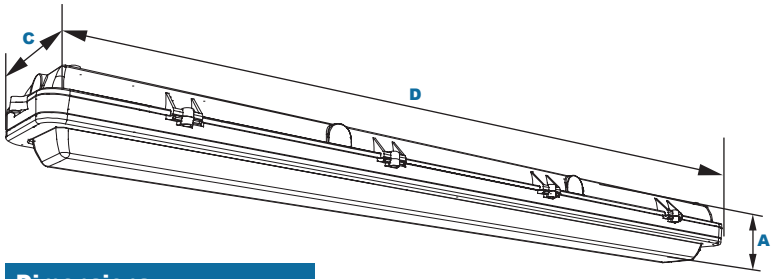
TSW Series *48" Linear LED Die Cast*

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, public transit and airports, office buildings and medical facilities. NSF certification meets the requirements for Food Processing Facilities. Mounting heights of 8 to 18 feet can be used based on light level and uniformity requirements.



Dimensions

Width (D)	49″ (1,247mm)
Length (C)	7″ (178mm)
Height (A)	4″ (102mm)

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

Order Information Example: **TSW4AOQF136U5KCGSP**

	F						
Model	**Optics**	**Wattage**	**Driver**	**CCT**	**Lens**	**Color**	**Options**
TSW4AOQ =LED Open Frame 48" Linear LED Die Cast	**F**=Wide	**112**=112w **136**=136w	**U**=120-277V **H**=347/480V	**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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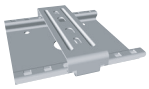
Accessories & Replacement Parts:

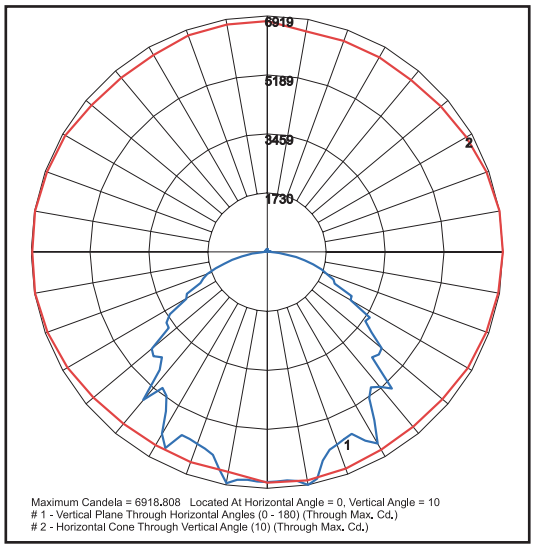


TSWAQM

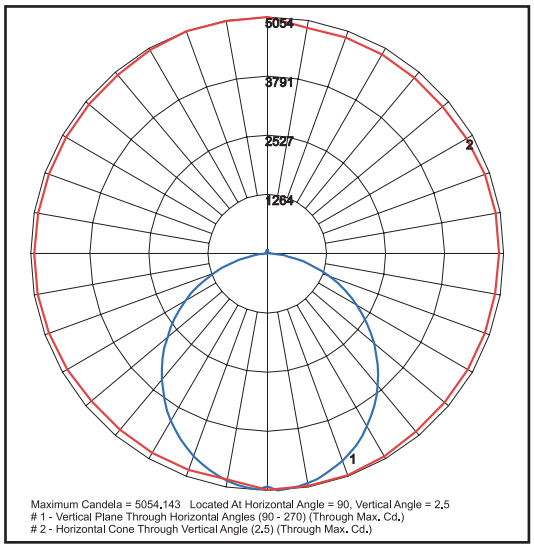
Mounting Accessories (Order separately, Field installed)

TSWAQM	Stainless Steel Quick Mount Bracket. Requires Two Brackets Per Fixture.

Photometric Data



TSW4AOQF136U5KC
Wide Optic



TSW4AOQF136U5KL
Wide Optic

Photometric Performance

					5000 CCT 80 CRI	
LED Board Watts	**Drive Current (mA)**	**Input Watts**	**Optics**	**Spacing Criteria**	**Lumens**	**LPW**
LED 112w (Clear Lens)	116	126	Open Frame (110° x 110°)	1.32	16,287	129
LED 112w (LumaLens)			Open Frame (110° x 120°)	1.28	13,720	109
LED 136w (Clear Lens)		152	Open Frame (110° x 110°)	1.32	19,773	130
LED 136w (LumaLens)			Open Frame (110° x 120°)	1.26	16,594	109

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	126	1.00	0.96	0.92	0.84	187,000
L70 Lumen Maintenance @ 25°C / 77°F	152	1.00	0.95	0.91	0.82	165,000
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	126	1.00	0.93	0.86	0.72	107,000
L70 Lumen Maintenance @ 50°C / 122°F	152	1.00	0.92	0.84	0.69	96,000
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	126	1.00	0.94	0.88	0.76	82,000
L80 Lumen Maintenance @ 40°C / 104°F	152	1.00	0.93	0.86	0.73	74,000

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.