

## ESW – Wide Body Outdoor Area Lighting

- ▶ The ESW takes energy efficient outdoor T5HO to new heights.
  - Provides auto and other retailers a viable option to replace short life MH1000 lamps that operate at 1080 system watts.
  - Can accommodate six T5HO lamps operating at 351 system watts.
  - Offered with a full range of custom colors to integrate into your project's color palette.
- ▶ Environmentally Friendly
  - Energy Efficient
  - Dark Sky Compliant
  - Controls Compatible
- ▶ Applications
  - Big Box Industrial and Retail
  - Auto Dealers
  - Strip Malls
- ▶ Don't Guess
  - Thermal curves and photometric information are on file give you the RLO information required to properly model your system.
  - Years of proven success in outdoor linear fluorescent applications.
- ▶ Why P2? It's Simple, Our Experience.
  - You can squeeze extra savings out of your 6-lamp T5HO project by switching 2 or 4 lamps on a separate circuit. Turn this circuit off after retail hours and leave the companion lamps on for security.

### ESW – Wide Body, up to 6-Lamp T5HO



### Application

- ESW provides energy efficient choices for 25-40' Site Lighting.
- See ESTE with controls, EST narrow body, and EWB forward throw wall pack for controls, 4L-T5HO, and wall mount applications.
- ESW available in 5-Lamp and 6-Lamp T5HO cross sections.
- Consider OSI Amalgam lamps for the coldest applications.

### ESW – 1x4 – 6L – T5HO – UL2 – MN – PS – ST – TG – BZ – LSP

ESW	1x4	6L	T5HO	UL2	MN	PS	ST	TG	BZ	LSP		
Model	Fixt Size	Lamp Qty	Lamp Type	Voltage	Ballast Factor	Ballast Starting	Ballast Grade	Lens	Fixture Finish	Other	Other	Other

Fixture Model

ESW = Wide Body T5HO Site Lighter  
ESWE = Wide Hi/Lo T5HO Site Lighter

Fixture Size

1x2 = 1x2 Nominal  
1x4 = 1x4 Nominal

Lamp Qty

xL = x Indicates quantity of lamps

Lamp Type

T5HO = Linear T5HO Lamps

Voltage (1)

UHx = Universal 347-480  
ULx = Universal 120-277

Numeric Footnotes

- (1) Numeral indicates number ballasts per fixture.
- (2) Ballast factors outside ranges shown to be called out numerically.
- (3) Sensors available only with ESWE Hi/Lo Site lighter

Ballast Factor (2)

MN = Neutral Power (.97 - 1.04)

Ballast Starting

PS = Programmed Start

Ballast Grade

ST = Standard Grade  
UE = Ultra Efficient

Lens

TG = Tempered Glass

Other (Mounting)

BO8 = 8" Bolt On Arm  
BO10 = 10" Bolt On Arm  
ADF = 2-3/8" Adjustable Fitter  
PMK = Adjustable Pole Mount Kit

Fixture Finish

BB = Black  
BG = Green  
BW = White  
BY = Gray  
BZ = Bronze  
RAL = RALxxxx (RAL Specification)

Other

LF = Factory Lamps (Lamp spec elsewhere)  
LSP = Lighting Surge Protector  
PC = Locking Photocontrol Base and Photocell  
BP = Button Photocell  
SF = Single Fuse 120-277  
DF = Double Fuse 208/240/480  
SS = Stainless Bird Spikes  
HSS = House Side Shield  
WH2 = Wet Location 360 View Hi-Bay Sensor (3)  
WL2 = Wet Location 360 View Lo-Bay Sensor (3)

## ESW – Wide Body Outdoor Area Lighting

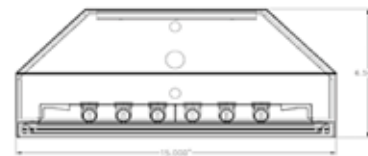
### Fixture Construction

- Heavy duty single piece aluminum body. EPA = 2.48, 32 lbs. All EPA values assume a horizontal mounting position.
- Post production powder coat minimum 3k hour salt spray.
- Extruded aluminum lens frame and tempered glass lens.
- Environmentally friendly and labor saving bulk project packaging.
- 100k cycle, 1.5g accelerometer test to ANSI Standard C136.31-2001.
- Made in the USA: Hudson WI, Gainesville FL, Orange County CA.

ESW Plan View



6L-T5HO Cross Section



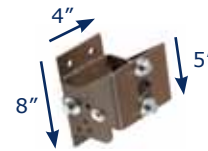
### Common Mounting Options

BO8 = 8" Bolt on Arm



Consult Factory For More Options

PMK = Adjustable Pole Mount Kit



### Existing Systems

Existing Hi-Bay System	Lamp Qty & Type	Initial Lamp Lumens	Lumen Maintenance	EOL(1) Lumens All Lamps	Total Fixture Lumens	Ballast Factor	Fixture Efficiency	EOL(1) Lumens Per Fixt	S/P (2) Ratio	Net (3) EOL Lumens	Fixt Input Watts
MH400	1 Std MH400	38,000	58%	22,040	22,040	1.00	0.75	16,530	1.49	22,561	458
HPS400	1 Std HPS400	50,000	70%	35,000	35,000	1.00	0.75	26,250	0.62	18,080	464
MH1000 (16k Hours)	1 MH1000/U	110,000	26%	28,600	28,600	1.00	0.75	21,450	1.49	29,276	1080
MH1000 (12k Hours)	1 MH1000/U	110,000	37%	40,700	40,700	1.00	0.75	30,525	1.49	41,662	1080
MH1000 (8k Hours)	1 MH1000/U	110,000	50%	55,000	55,000	1.00	0.75	41,250	1.49	56,300	1080
MH1000 (4k Hours)	1 MH1000/U	110,000	72%	79,200	79,200	1.00	0.75	59,400	1.49	81,072	1080

### Re-Lighting Option

Proposed Hi-Bay System	Lamp Qty & Type	Initial Lamp Lumens	Lumen Maintenance	EOL(1) Lumens All Lamps	Total Fixture Lumens	Ballast Factor	Fixture Efficiency	EOL(1) Lumens Per Fixt	S/P (2) Ratio	Net (3) EOL Lumens	Fixt Input Watts
5L-T5HO	5 FP54T5HO	5,000	93%	4,650	23,250	1.00	0.82	19,065	1.62	27,775	293
6L-T5HO	6 FP54T5HO	5,000	93%	4,650	27,900	1.00	0.82	22,878	1.62	33,330	351

(1) EOL = End of Life (2) S/P Ratio = Scotopic to Photopic Lumens (3) Net EOL Lumens = EOL Lumens Per Fixture x (S/P)<sup>0.78</sup> [0.78 exponent]

### General Notes

- Lamp/ballast system values shown are a general reference intended to supply a quick comparison of several common lamp/ballast systems, the associated energy consumption, and net lumen output.
- Values shown are based on T5HO lamps operating at 35c ambient. Consult the ESW Relative Light Output curve from -30f to +150f ambient when designing your system.
- Fixture efficiency percentages are generally representative of each system type, actual values will vary.
- There are many operating variables that affect system output, in addition to rating variances from brand to brand.
- In addition to those shown there are a wide variety of systems to choose from, each with distinct features and cost points.
- Please consult the lamp/ballast manufacturer's catalogs for the detailed information required to model your system.
- Lumen maintenance percentages shown are at EOL (End of Life), except MH1000, which are at 4,000, 8,000, 12,000, or 16,000 hours of operation as noted in parentheses.