

TWH LED
LED Wall Luminaire

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

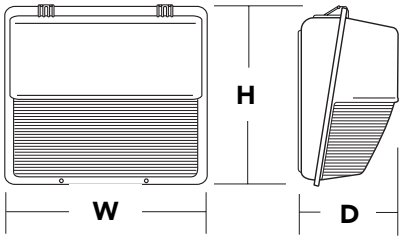
Specifications

Width: 16-1/4" *(41.3 cm)*

Height: 15-3/4" *(40.0 cm)*

Depth: 8" *(20.3 cm)*

Weight: 28 lbs *(12.7 kg)*



Introduction

The TWH LED offers a classic appearance and is powered by advanced LEDs.

The new TWH LED luminaire is powerful yet energy efficient, capable of replacing up to a 400W metal halide luminaire while saving up to 83% in energy costs. Offering an expected service life of more than 20 years, the TWH LED eliminates frequent lamp and ballast replacements associated with traditional technologies.

The new TWH LED features an Adjustable Light Output (ALO), that allows the contractor to set the light output, during installation, to a level perfectly suited for the job site. The feature allows one luminaire to replace anywhere from 70W to all the way up to 400W metal halide luminaire.

Ordering Information

EXAMPLE: TWH LED ALO 50K T3M MVOLT DDBXD

TWH LED							
Series	**Power Package**	**Color temperature**	**Distribution**	**Voltage**	**Control Options**	**Other Options**	**Finish** *(required)*
TWH LED	ALO	30K 40K 50K	T3M Type III Medium	MVOLT [1] 120 208 240 277 347 480	**Shipped installed** PER NEMA twist-lock receptacle only (no controls) PE Photoelectric cell, button type [2]	**Shipped installed** SF Single fuse (120, 277, 347V) DF Double fuse (208, 240, 480V) TP Tamper proof screws SPD Separate surge protection **Shipped separately** VG Vandal guard WG Wire guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number	CI Codes
TWH LED ALO 40K T3M MVOLT DDBXD	**TWH LED ALO 40K**	***265A1X**
TWH LED ALO 50K T3M MVOLT DDBXD	**TWH LED ALO 50K**	***265A24**

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [4]
DLL347 1.5 CUL JU	Photocell - SSL twist-lock (347V) [4]
DLL480 1.5 CUL JU	Photocell - SSL twist-lock (480V) [4]
DSHORT SBK U	Shorting cap [5]
TWHVG U	Vandal guard accessory [3]
TWHWG U	Wire guard accessory [3]
RK1 PEB SHLD U	Button style photocell shield

For more control options, visit *DTL* and *ROAM* online.

NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
2. The photocell is not voltage specific when ordering with MVOLT. It will operate from 120-277V. Not available 480V.
3. VG and WG options cannot be installed together. Also available as a separate accessory; see Accessories information at left. Requires field modification (only when ordered as a separate accessory).
4. Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.
5. Included when ordering PER.

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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

FAO Setting	System Watts	30K (3000K, 70 CRI)		40K / 50K (4000K / 5000K, 70 CRI)		Replaces (Metal Halide)
		Lumens	LPW	Lumens	LPW	
Step 8 (default)	78	8,477	109	9,214	118	400W
Step 7	73	8,008	110	8,704	119	
Step 6	63	7,046	112	7,659	122	250W
Step 5	54	6,063	112	6,590	122	
Step 4	44	5,058	115	5,498	125	150/175W
Step 3	34	4,030	119	4,381	129	
Step 2	25	2,981	119	3,241	130	100W
Step 1	16	1,910	119	2,076	130	70W

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **TWH LED 30C 1000** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	1.00	0.98	0.93

Electrical Load

Power Package	System Watts	Current (A)					
		120	208	240	277	347	480
ALO (default setting)	78W	0.7	0.41	0.36	0.3	0.23	0.12

Options and Accessories



VG - Vandal guard



WG - Wire guard

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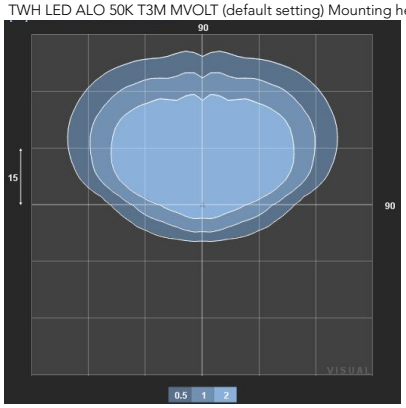
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's TWH LED homepage.
Tested in accordance with IESNA LM-79 and LM-80 standards

LEGEND

- 0.5 fc
- 1.0 fc
- 2.0 fc

TWH LED ALO 50K T3M MVOLT (default setting) Mounting height - 15'



FEATURES & SPECIFICATIONS

INTENDED USE
The energy savings, long life and easy-to-install design of the TWH LED make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION
Die-cast aluminum housing has an impact-resistant, tempered glass lens that is fully gasketed. Modular design allows for ease of maintenance. The LED driver is mounted to the front casting to thermally isolate it from the light engine for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS
Protective glass lens covers the light engine's precision-molded proprietary acrylic lenses. Light engines are available in 3000K, 4000K and 5000K configurations.

ELECTRICAL
Light engine(s) consist of 72 high-efficacy LEDs mounted to a metal-core circuit board and integral aluminum heat sink to maximize heat dissipation and promote long life (L93/100,000 hrs at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 6 KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Back housing is separated from front housing, eliminating ballast weight and promoting easy handling. Top 3/4" threaded wiring access. Back access through removable 3/4" knockout. Feed-thru wiring can be achieved by using a condulet tee. Mount on any vertical surface. Not recommended in applications where a sprayed stream of water can come in direct contact with glass lens.

LISTINGS
UL listed for use in the US and Canada. Suitable for use in wet locations. Rated for -40°C minimum operating temperature.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/resources/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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