TWH LED
LED Wall Luminaire

TYPE 3 & 3A

Catalog Number

Notes

Type

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

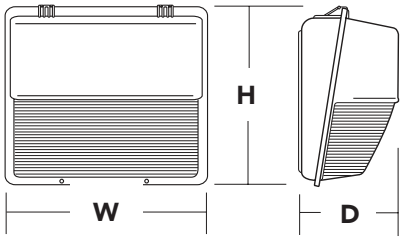
Specifications

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 popular TWH luminaire is now available with LED technology. Cast in a traditional dayform, 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 77% 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.

TYPE 3A

TYPE 3

Ordering Information

EXAMPLE: TWH LED 30C 1000 50K T3M MVOLT DDBXD

TWH LED								
Series	**LEDs**	**Drive current**	**Color temperature**	**Distribution**	**Voltage**	**Control Options**	**Other Options**	**Finish** *(required)*
TWH LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) 30C 30 LEDs (one engine)	1000 1000 mA (1 A)	50K 5000K (standard) 40K 4000K (optional)	T3M Type III Medium	MVOLT [1] 120 [1] 208 [1] 240 [1] 277 [1] 347 [2] 480 [2]	**Shipped installed** DMG 0-10V dimming driver (no controls) PER NEMA twist-lock receptacle only (no controls) PE Photoelectric cell, button type [3]	**Shipped installed** SF Single fuse (120, 277, 347V) [4] DF Double fuse (208, 240, 480V) [4] TP Tamper proof screws NOM NOM Certified SPD Separate surge protection [5] ELSW Emergency battery backup (standard 0°C) [6] ELCW Emergency battery backup (cold weather -20°C) [6] **Shipped separately** VG Vandal guard [7] WG Wire guard [7]	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
TWH LED 10C 1000 50K T3M MVOLT DDBXD	**TWH LED 10C 50K**
TWH LED 20C 1000 50K T3M MVOLT DDBXD	**TWH LED 20C 50K**
TWH LED 30C 1000 50K T3M MVOLT DDBXD	**TWH LED 30C 50K**

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [8]
DLL347 1.5 CUL JU	Photocell - SSL twist-lock (347V) [8]
DLL480 1.5 CUL JU	Photocell - SSL twist-lock (480V) [8]
SC U	Shorting cap [8]
TWHVG U	Vandal guard accessory [9]
TWHWG U	Wire guard accessory [9]

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

NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options) or photocontrol (PE).
2. Not available with 10C option.
3. Must specify voltage; not available with MVOLT.
4. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
5. See the electrical section on page 2 for more details.
6. Not available with 30C, 347, 480, PER, or SPD. Emergency mode IES files located on product page at www.lithonia.com. ELSW and ELCW warranty is 3-year period.
7. Also available as a separate accessory; see Accessories information at left.
8. Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.
9. Requires field modification (only when ordered as a separate accessory).

LITHONIA LIGHTING

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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.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K (4000K, 70 CRI)					50K (5000K, 65 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	1000	10C 1000 --K	39 W	T3M	2445	0	3	2	63	2559	0	3	2	66
20C (20 LEDs)	1000	20C 1000 --K	72 W	T3M	4683	1	3	3	65	5562	1	3	3	77
30C (30 LEDs)	1000	30C 1000 --K	104 W	T3M	6391	1	3	3	61	6728	1	3	3	65

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	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.98

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	1.0	0.95	0.92	0.87

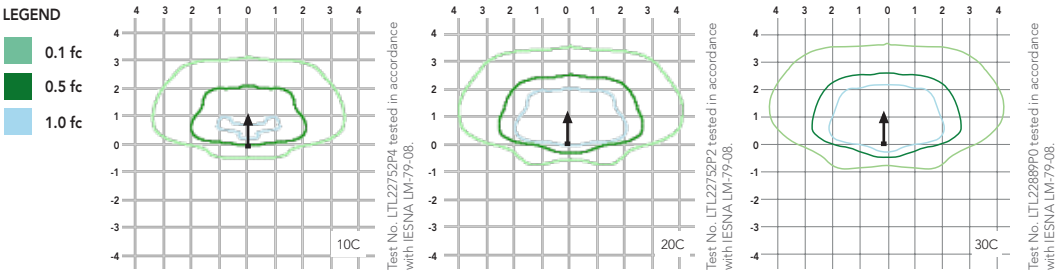
Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
10C	1000	39 W	0.36	0.21	0.18	0.16	-	-
20C	1000	72 W	0.67	0.38	0.33	0.29	0.23	0.17
30C	1000	104 W	0.96	0.56	0.48	0.42	0.33	0.24

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's TWH LED homepage.

Isofootcandle plots for the TWH LED --- 1000 50K T3M. Distances are in units of 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 5000K (65 min. CRI) configurations.

ELECTRICAL
Light engine(s) consist of 10 or 30 high-efficacy LEDs mounted to a metal-core circuit board and integral aluminum heat sink to maximize heat dissipation and promote long life (L87/100,000 hrs at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 2.5 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 wet locations. Rated for -40°C minimum ambient. Luminaire is IP55 rated.

WARRANTY
Five year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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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