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User Guide

D-LEDbar™ POLYOPTIK™

D-LEDbar™ Polyoptik™ 3000K 20° x 20°	DL-POL-2-35K-20-xxx	D-LEDbar™ Polyoptik™ 3500K 20° x 20°	DL-POL-2-30K-20-xxx
D-LEDbar™ Polyoptik™ 3000K 40° x 40°	DL-POL-2-35K-40-xxx	D-LEDbar™ Polyoptik™ 3500K 40° x 40°	DL-POL-2-30K-40-xxx
D-LEDbar™ Polyoptik™ 3000K 20° x 40°	DL-POL-2-35K-2x4-xxx	D-LEDbar™ Polyoptik™ 3500K 20° x 40°	DL-POL-2-30K-2x4-xxx
D-LEDbar™ Polyoptik™ 3000K 180° x 180°	DL-POL-2-35K-180-xxx	D-LEDbar™ Polyoptik™ 3500K 180° x 180°	DL-POL-2-30K-180-xxx

Products, components & tools for easy installation

D-LEDbar™

Bracket angles*

14 AWG electrical conductor

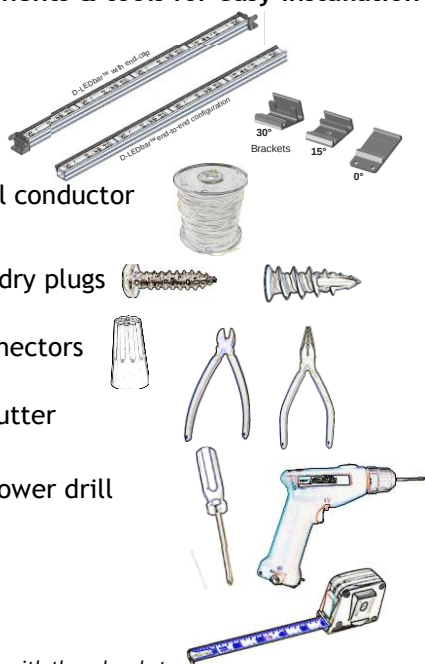
#8 fasteners and dry plugs

14 AWG wire connectors

Wire stripper / Cutter

Screw driver or power drill

Tape Measure



* Each D-LEDbar™ comes with three brackets



WARNING

Risk of electrical shock. Before installing, switch power off at the electrical panel and follow appropriate safety procedures.

Before installation. Prepare a layout, a required list of material and inspect the area of installation.

Loading. Factors can affect the loading of the power supply. The user shall ensure that maximum loading will not be exceeded.

Safe installation. The user is responsible for the safe electrical and mechanical installation of the power supply and of the suitability of the wiring system, mounting surfaces and hardware used. All equipment shall be installed in accordance with the electrical code in a neat and workmanlike manner. See NECA 1-2010 standard "Good Workmanship in Electrical Construction".

Wiring. The user is responsible for proper selection of the electrical conductor type; see the requirements in technical bulletin #27 "Wiring for architectural applications".

Class 2 circuit shall be physically separated from other circuit types.

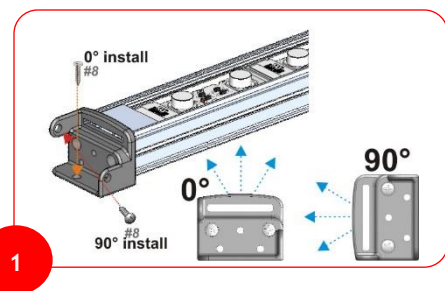
Characteristics

Input Power	Only from the following Class 2 power supplies: LMPS-350 or LMPS-750							
Dimming Option	Only with: LMPS-Dimmer Controller and LMPS-Dimmer Extender							
Ambient Operating Temperature	-40 °F to 122 °F (-40 °C to 50 °C)							
Operating Environment	Dry and damp locations (with LMPS-350 and LMPS-750), wet locations (only with LMPS-350)							
Ingress Protection Rating	IP67							
Warranty	5 years							
Overall Length (end-to-end configuration)		2- 23.87" (606 mm)	3- 35.74" (908 mm)	4- 47.60" (1209 mm)	5- 59.48" (1511 mm)	6- 71.34" (1812 mm)	7- 83.2" (2113 mm)	8- 95.09" (2415 mm)
Overall Length (with end-cap)		2- 25.94" (659 mm)	3- 37.94" (964 mm)	4- 49.94" (1268 mm)	5- 61.94" (1573 mm)	6- 73.94" (1878 mm)	7- 85.94" (2183 mm)	8- 97.94" (2488 mm)
Housing	Aluminum body and plastic mounting clips (0°, 15°, 30°)							
Certification	 Luminaires							
 The D-LEDbar™ Polyoptik™ shall only be used with the following Class 2 power supplies: LMPS-350 or LMPS-750. Failure to comply will void all warranties and UL/ETL listings.								

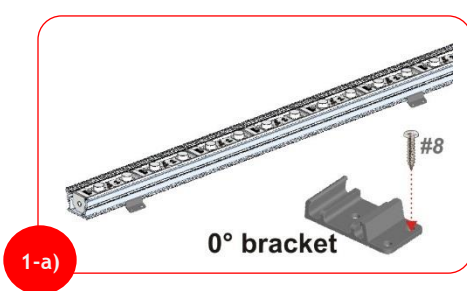
Bill of Material & Layout

For material estimations, please refer to the *technical bulletin #15 (D-LEDbar™ Architectural Lighting Applications Installation Guide)* and the *Distance Factor Calculator*. For a free layout, please complete the layout request form on our website. For technical assistance, please contact us 1.800.665.1166.

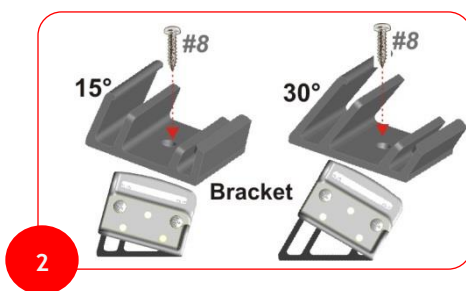
Installation - D-LEDbar™



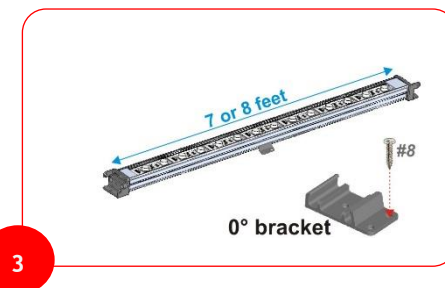
Secure the D-LEDbar™ Polyoptik™ with #8 screws. The end-caps allow a 0° or 90° mounting.



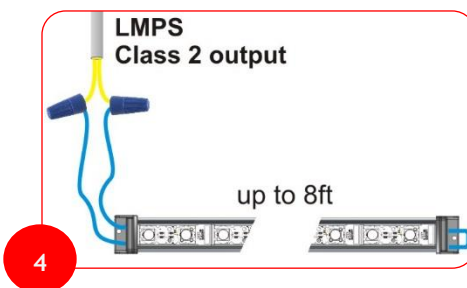
For an end-to-end configuration, secure the D-LEDbar™ Polyoptik™ with the 0° mounting



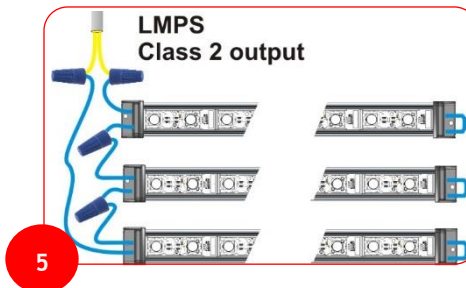
Using the 15° or 30° brackets, the D-LEDbar™ Polyoptik™ can be installed with a 15° or 30° setting. A set of brackets comes with each D-LEDbar™ Polyoptik™.



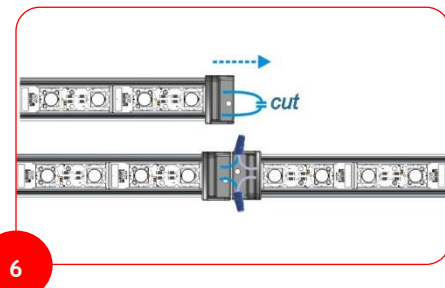
For D-LEDbar™ of 7 or 8 feet, strengthen the mechanical installation using a 0° bracket in the middle of the D-LEDbar™ Polyoptik™.



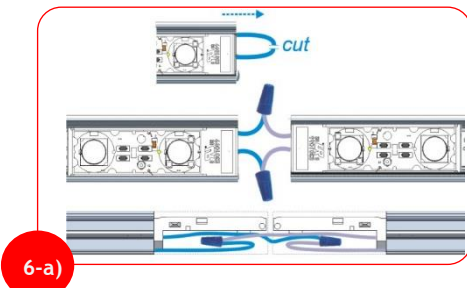
All D-LEDbar™ Polyoptik™ are pre-wired with a closed loop. For a single D-LEDbar™ Polyoptik™ set-up, connect both ends of the wire to the LMPS power supply.



For non-linear multiple D-LEDbar™ Polyoptik™ installation, cascade all connections in series. Never connect the D-LEDbar™ Polyoptik™ in a parallel topology.



For a linear multiple D-LEDbar™ Polyoptik™ installation, pull the end wire loop out by 2 inches, cut the loop and connect the next D-LEDbar™ Polyoptik™ in series.



For linear installation in a no-end cap configuration, pull the end wire loop out by 2 inches, cut the loop and connect the next D-LEDbar™ Polyoptik™ in series. Hide the splice connection under the modules and install the D-LEDbar™ Polyoptik™ side by side for uniform linearity.

Note : Must use TFT Transfotec™ LED power supplies.

Troubleshooting

Symptom	Solution
Some LED arrays on one power supply are dim or completely off.	• Verify all connections. LED arrays must be wired in series. • Check AC input and/or check circuit breaker.
All LED arrays on one power supply are dim or are flickering.	• Verify that the power supply is not overloaded. Revise the loading accordingly. • Verify that the correct model of power supply is used. • Verify that the correct distance factor was applied. • Verify that the correct extension wire is used.
Some LED arrays or one or many LEDs on a LED arrays do not light.	• Replace the affected LED arrays.
The splice connections are very hot.	• Verify that the splice connections are made with a splice connector approved for the purpose and that the connections are secured.

For further information, please refer to technical bulletin #5 Contactless LED System Troubleshooting.

Additional Information

- If you are using an LMPS-Dimmer, please refer to technical bulletin #11 *LMPS-Dimmer Architectural Lighting Installation Guide* for further instructions.
- Turn off power before installation, inspection, repair or removal.
- The user is responsible for proper selection of the electrical conductor type that will be used for the specific application; please refer to the requirements in technical bulletin #27 *Wiring for Architectural Applications*.
- Follow all National Electrical Codes (NEC) and local codes.
- TFT Transfotec™ makes no warranty expressed or implied as to the fitness of use of the products. Their use shall be solely by the judgment and at the risk of the user notwithstanding any statement in this technical bulletin.

Refer to the following literature for additional information:

- D-LEDbar™ Polyoptik™ Product Sheet Document
- Technical bulletin #5 Contactless LED System Troubleshooting
- Technical bulletin #15 D-LEDbar™ Architectural Lighting Applications Installation Guide
- Technical bulletin #27 Wiring Guide
- Tool *D-LEDbar™ Selector*

For other configurations or general information, please contact TFT Transfotec™ +1.888.653.3533. www.transfotec.com