TokiLum

TOKISTAR LIGHTING
TokiLum™

TokiLum uses high-output LEDs to provide an indirect wash of light on building facades, underneath step-nosings and from within very shallow ceiling coves. In exposed applications, the LEDs create distinct points of vibrant light.

TokiLum LED modules are tightly sealed within an all-environment package and approved for use in wet-location settings. The system operates efficiently at 6 VDC. This lower voltage produces very little heat, adding to TokiLum’s reliability.

How to Specify

TokiLum is available in LED module spacings of 2" and 4". LEDs can be specified 3000K, 6500K or Blue.

Specifications

All plastic components are resistant to Ultraviolet Light in accordance with standard UL 746C.

- **Flexible Conductors** are #18 AWG
- **Light Sources** are 0.48 Watt/6 VDC LEDs
- **LED Modules** are permanently sealed to cable
- **Insulation** is flexible PVC with flammability rating UL 94V-0

This product is protected under U.S. and Foreign Patents.

- **Wet-Location Listed**

### TokiLum - 50 - IW

<table>
<thead>
<tr>
<th>LED Spacing</th>
<th>LED</th>
<th>Kelvin</th>
<th>Watts/Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 2&quot; (50 mm)</td>
<td>IW</td>
<td>3000K</td>
<td>0.48 W / 6 VDC</td>
</tr>
<tr>
<td>100 4&quot; (100 mm)</td>
<td>WH</td>
<td>6500K</td>
<td>0.48 W / 6 VDC</td>
</tr>
<tr>
<td></td>
<td>BL</td>
<td>Blue</td>
<td>0.48 W / 6 VDC</td>
</tr>
</tbody>
</table>

- **LUM - 50 - IW**

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System Layout

Circuit Design
TokiLum fixtures have two independent Class 2 circuits. Each circuit is fed by one of the two outputs from the LED Driver.

Fixture Length
To minimize voltage drop and keep conductors safely within their ratings, do not exceed the maximum lengths shown for each independent fixture.

Secondary Lead Wires
The LED Driver may be located at a remote location. Distance from the fixture to the Driver, and the spacing of the LED modules on the fixture, determine the proper size of the secondary wire. This chart indicates recommended wire size based on these two variables.

Mounting Options
TokiLum can be surface mounted to structures using our mounting track, panel fasteners or clamps.

Mounting Track
Part #: TRI-MT
LED modules snap into a semi-rigid track. The track is fastened with screws, hi-bond adhesive tape or construction adhesive.

Panel Fasteners
Part #: TRI-PF
TokiLum is easily incorporated into display panels and signs with our panel fasteners. The LED module is inserted from behind, concealing all wiring.

Mounting Clamps
Part #: TRI-MC
For maximum flexibility, TokiLum can be attached with clamps. Each clamp is fastened with a screw concealed behind the fixture.
LED Driver

Tokistar's LDR6-60 is a 60 Watt UL Recognized Class 2 LED Driver used to convert an AC input into a 6 VDC output. It may be operated from a wide range of input voltages. The enclosure is suitable for wet locations.

Part #: LDR6-60

Specifications
- Input Range: 100~240 VAC
- Frequency Range: 50/60 Hz
- Output: 6 VDC (Adjustable +40% / -5%)
- Max. Output Current: 5.0A x 2 channels
- Max. Output Power: 30W x 2 channels
- Protection: Overload, Overcurrent, Short Circuit
- Operating Temperature: -30°C to +60°C

Mechanical Specifications
- Dimensions: 3.6” x 11” x 2.25”
- Weight: 4 lbs
- Enclosure Rating: Nema 3/IP65
- Mounting: Flange Mount
- Connection: Knockouts for 1/2” Conduit

Compliance/Safety
- UL 1310 Class 2
- CAN/CSA 22.2#9
- EN60950

TokiLum Capacity
0.48 Watt LEDs: 124 pieces

LED Dimmers

DMX Dimming System

Tokistar's LC-1CH-MULTI Dimmer Pack is compatible with industry-standard dimmers working on DMX or 0/1-10VDC protocol.

DMX Mode - Each unit is independently addressable. Up to 36 dimmer packs may be connected in series. For applications exceeding 36 dimmer packs, an additional feed from the DMX dimmer is required. The additional feed(s) can be sent directly from the dimmer, or you may specify DMX Splitters. Consult factory on details of DMX Splitters.

Analog Modes - For operation from devices using 0/1-10VDC protocol, up to 10 dimmer packs may be connected in series. For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.

Manual Mode - You may select a light intensity at which the fixtures will operate. In this case, no external dimming device is required.

LC Dimming System

This proprietary Dimming System provides full-range dimming of TokiLum LEDs. The system components connect with CAT5 cable. Up to 25 dimmer packs may be connected in series if the total length of all CAT5 cable does not exceed 165 feet from the wall dimmer to the last dimmer pack. CAT5 cables are included with units.

Part #: LC-DMR

The remote wall dimmer has a rotary dial and on/off switch. Power to the wall dimmer is provided from the LED Driver powering the first Dimmer Pack. A 50 foot CAT5 cable is provided with each unit.

Part #: LC-1CH-DP

Each dimmer pack receives one of the two 6VDC outputs from an LDR6-60 LED Driver. A CAT5 cable is provided with each unit.

Size: 1-1/2” x 3-1/2” x 4-1/16”

Part #: LC-ICH-MULTI

Max. Load: 30 Watts @ 6 VDC
- Environmental Rating: Dry Location/IP20
- Dimensions: 3/4” x 1-3/4” x 3-1/2”
- Weight: 50g / 0.11 lbs
- Listing: ETL Listed/CE Certified
- Operating Temperature: 0~+50°C