TokilLinear™

TokilLinear provides soft and uniform illumination. The compact profile is easily incorporated into confined spaces for both indirect and direct-view applications.

Color temperatures of 2500K, 2700K, 3000K and 4000K complement any interior scheme. Fixtures are powered from 24 VDC LED drivers and may be dimmed fluidly from our control gear.

Systems and components are listed to UL Standards and marked in accordance with CE Standards.

TokilLinear RGB incorporates RGB LEDs into the same profile as standard TokilLinear. The LEDs are Tri-Color LEDs so they produce perfectly blended and vibrant color in direct and indirect-view applications.

This system also operates from 24 VDC Class 2 LED drivers. Our control systems are easy to program and readily changed or animated to complement any theme or environment.

Systems and components are listed to UL Standards and marked in accordance with CE Standards.

Specifications

Cover is either Diffused or Translucent Polycarbonate

White LEDs are 0.096 Watt spaced at 8 mm o.c.

RGB LEDs are 0.12 Watt spaced at 10 mm o.c.

End Caps are Polycarbonate

Extrusion is Anodized Aluminum

Conductors #20 AWG

Project: Ichikawa Home Gallery
Design: Mitsubishi Estate Home Co., Ltd.
Specify by Catalog Number

**TLN - 4000 - TC**

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Lens Cover</th>
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<tbody>
<tr>
<td>Code</td>
<td>Color</td>
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<tr>
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<tr>
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<tr>
<td>4000</td>
<td>4000K</td>
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<tr>
<td>RGB</td>
<td>RGB</td>
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A diffused lens is for direct-view applications, or indirect applications to eliminate points of light on reflective surfaces. The translucent lens has a lower profile and produces more light for indirect applications.

**Ninja Louvers**

Tokistar’s Ninja Louver has a vertical baffle to block light from the side and a series of fine blades to minimize glare. This is for use with the diffused lens and with standard mounting clamps only.

**Lengths**

The maximum overall length of a fixture is 2408 mm/94.80”. Each fixture is custom fabricated per order and can be supplied in the increments of PCB’s shown in this drawing.

**Maximum Fixture Length (White)**
2408 mm / 94.80”
(40 mm PCB X 60 pcs.) + (8 mm End Caps)

**Maximum Fixture Length (RGB)**
2408 mm / 94.80”
(150 mm PCB X 16 pcs.) + (8 mm End Caps)
**Accessories/Options**

**Mounting Clamps**
Part #: TLN-CP
Standard clamps are attached with screws.

**VHB Adhesive Tape**
Part #:s: WFL-1, WFL-20 & WFL-108
VHB (Very High Bond) adhesive tapes may work best in many applications with smooth and sealed surfaces. Sizes include 1” strips, 20 and 108 foot rolls.

**Raceway**
Part #: TXB-W
This raceway is a conduit the fixture snaps into, and multiple secondary circuits can be fed through.

**Photometrics**

**Test Criteria:** 1.2 Meter Fixture with 3000K LEDs

- **Light Output:** 650 Lm/meter
- **CRI/RA Value:** 85 Typical
- **Values:** Lux shown

**Test Criteria:** 600 mm Fixture with 3000K LEDs

- **Light Output:** 650 Lm/meter
- **CRI/RA Value:** 85 Typical
- **Values:** Lux shown
LED Drivers

24 VDC LED Drivers
TokiLinear is ETL Listed when operated from our selection of 24VDC LED drivers. These Class 2 power supplies have universal input ranging from 100 to 277 VAC 50/60 Hz.

LDR24-96
Tokistar’s LDR24-96 has a single 96 Watt output.

LDR24-96 Specifications
Input Range: 100~277 VAC
Frequency Range: 50/60 Hz
Output: 24 VDC (+/- 3%)
Max. Output Current: 4.0A
Max. Output Power: 96W
Protection: Overload, Over voltage, Short Circuit, Over Temperature
Working Temperature: -25ºC to +60ºC

Mechanical Specifications
Dimensions: 2.7” x 8.8” x 1.6”
Weight: 998g / 2.20 lbs
Enclosure Rating: Suitable for use in Dry, Damp and Wet Locations/IP67 Rated
Mounting: Flange Mount

Safety Standards
UL 879, UL 8750, UL 1310 Class 2, TUV EN60950-1, EN61347-1, EN61347-2-3 ind.
CAN/CSA C22.2 No. 223-M91, IP67 Rated

LED Module Capacity
1,000 ea. 0.096 Watt White LEDs
800 ea. 0.12 Watt RGB LEDs

LDR24-192
Tokistar’s LDR24-192 has two independent 96 watt outputs. If the system is dimmed, each of the outputs requires an independent dimmer pack. This unit has wiring compartments for splicing on input and output leads, and can be connected directly to conduit.

LDR24-192 Specifications
Input Range: 100~277 VAC
Frequency Range: 50/60 Hz
Output: 24 VDC (Adjustable +5% / -30%)
Max. Output Current: 8.0A (2 @ 4.0A)
Max. Output Power: 192W (2 @ 96W)
Protection: Overload, Over voltage, Short Circuit, Over Temperature
Operating Temperature: -25ºC to +60ºC

Mechanical Specifications
Dimensions: 4.5” x 12.3” x 2.4”
Weight: 2.55Kg / 6 lbs
Enclosure Rating: Nema 3/IP65
Mounting: Flange Mount

Safety Standards
UL 1012/1585, UL8750, UL Class 2 Wet locations, UL 48, cUL, CE, UL #: E342485

LED Module Capacity
2,000 ea. 0.096 Watt White LEDs
(1,000 Per Output)
1,600 ea. 0.12 Watt RGB LEDs
(800 Per Output)
Dimming

LC-1CH-MULTI Dimming System/24 VDC

Tokistar’s LC-1CH-MULTI dimmer pack is compatible with industry-standard dimmers working on DMX or 0/1-10VDC protocol. In the manual mode, a preset light level can be set without the use of an external dimmer.

**Part #: LC-1CH-MULTI**

Technical Specifications:
- Max. Load: 96 Watts @ 24 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~+50ºC

**DMX Mode**

In this mode, dimmer packs are addressable and may be used with any controller working on DMX protocol. Up to 36 dimmer packs may be connected in series. For applications exceeding 36 dimmer packs, a splitter is required. Consult factory on details of DMX splitters.

**Analog Mode 0/1-10 VDC**

For operation from devices using 0/1-10 VDC 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 operate. In this case, no external dimming device is required.

Dual output LED drivers require a dimmer pack for each output.

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LC Dimming System/24 VDC

This proprietary dimming system provides full-range dimming of LEDs from our LED drivers. 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-1CH-DP**

Each dimmer pack receives a 24VDC input from an LED driver and sends a PWM output to the fixture. Logic input and output is communicated through CAT5 cable.
- Max. Load: 96 Watts @ 24 VDC
- Dimensions: 1-1/2” x 3-1/2” x 4-1/16”
Lighting Controllers

Color Mix System
Our economical Color Mix System is capable of being operated on demand. Each dimmer pack operates up to 26.25' / 8M of TokiLinear RGB. CAT5 cable with RJ45 connectors on each end link the components together. 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 LC-3CH-CM control station to the last dimmer pack. CAT5 cables are included with units.

Color Mix features include:
- Cross-Fading, Fading, Flashing and Demo Mode
- Ten memory locations to mix and store your favorite color selections
- Six animation patterns which cycle between favorite color selections
- Rotary dials for precise color mixing/speed-rate adjustment
- Adjustable fading/flashing rate
- Control station includes color-changing LED indicator

Dual output LED drivers require a dimmer pack for each output.

DMX Dimming System
DMX dimmer packs are capable of operating up to 26.25’/8M of TokiLinear RGB (96 watts/4 amps maximum). Dimmer packs are addressable and may be used with any controller working on DMX protocol.

Part #: LC-3CH-CM
The Control Station is provided with a 50 foot CAT5 cable. Power to this unit comes from the LED driver powering the first dimmer pack. The unit installs in a double-gang junction box.

Part #: LC-3CH-DP
Dimmer packs are capable of operating up to 26.25' of TokiLinear RGB (96 watts/4 amps maximum). Dimensions: 1-1/2" x 3-1/2" x 4-1/16"

Up to 36 dimmer packs can be linked together with data cable. For applications exceeding 36 dimmer packs, a splitter is required. Splitters can operate an unlimited number of dimmer packs. Consult factory for details on splitters.