TOKISTAR Lighting
TokiLux™ Systems

TokiLux is a compact high-performance LED luminaire for use as an indirect light source within tight architectural details and a variety of casework and shelf conditions. Color temperatures of 2000K, 2400K, 2700K, 3000K and 4500K are available to complement any interior.

TokiLux consumes only 6 Watts per foot and is fully dimmable with our 24 VDC Drivers and Dimmer Packs. The remarkable life ratings of our LEDs and replaceable Light Bars ensure the system will provide years of continuous service.

In addition to our Basic System, we have greatly expanded the line to include:

• TokiLux WG
  Our Wall Grazing System with Spread Lens and Channel/Louver Options

• TokiLux KT
  A system you can precisely tune in a choice of color from 2200 to 4500K

• TokiLux RGB
  Tri-Color LEDs with full-range color mixing capability

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**TokiLux™ Basic System**

TokiLux® Basic is the perfect fit for most projects requiring a very compact profile and broad light distribution.

**TokiLux™ Wall Grazer**

The TokiLux WG Series is an exciting addition to our TokiLux line. It does an exceptional job as a wall grazing system.

**TokiLux™ KT /Kelvin Tuning**

TokiLux KT has the ability to tune in a color temperature between 2200K to 4500K. You can then dim the selection to the desired brightness level.

**TokiLux™ RGB**

Tokistar’s TokiLux RGB color-changing system creates vibrant and perfectly blended color. The compact profile is ideal for use in confined spaces or as edge lighting.
TokiLux™ Basic System

TokiLux is a compact high-performance LED luminaire for use within tight architectural details and in a variety of casework and shelf conditions. Color temperatures of 2000K, 2400K, 2700K, 3000K and 4500K are available to complement any interior.

TokiLux consumes only 6 Watts per foot and operates from our 24 VDC LED Drivers. Our Dimmer Packs provide full-range and flickerless dimming. The remarkable life ratings of our LEDs and replaceable Light Bars ensure the system will provide years of continuous service.

Specify by Catalog Number

TLX - 2400

<table>
<thead>
<tr>
<th>LED Code</th>
<th>Lumens Per Watt</th>
<th>Lumens Per Foot</th>
<th>CRI Value</th>
<th>Kelvin</th>
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<tr>
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<td>2000K</td>
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<td>85</td>
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<tr>
<td>2700</td>
<td>70.0</td>
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<td>2700K</td>
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<td>3000</td>
<td>72.5</td>
<td>435 Lm</td>
<td>85</td>
<td>3000K</td>
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<td>4500</td>
<td>82.5</td>
<td>495 Lm</td>
<td>85</td>
<td>4500K</td>
</tr>
</tbody>
</table>

0.33” (8.4 mm)

0.64” (16.3 mm)

With a 120° light distribution, the Basic System is suitable for a wide range of applications.

TokiLux 2400K illuminates distinctive wall panels. Design: Hashimoto Yuki Design Studio
System Overview

TokiLux fixtures come with 4 watt Light Bars inserted into a track. A single track may have from 1 to 12 Light Bars. Multiple tracks can be interconnected with up to 24 Light Bars. Spacing of the LEDs is consistent throughout the system creating a uniform lighting effect.

**Feed Connector**
*Part#: TLX-CON*
One Feed Connector can power up to 24 Light Bars.

**Flex Connector**
*Part#: TLX-FLC*
Flex Connectors with 2" wires are used to turn corners and enable smaller sections of TokiLux to conform to curves.

**Mounting Clamp**
*Part#: TLX-CP*
TokiLux is installed with Mounting Clamps. Recommended spacing is every 12".

**End Cap**
*Part#: TLX-ED*
An End Cap is required at the end of a fixture run.

**Multiple Length Assembly**
Any run length exceeding 12 Light Bars will be supplied as multiple lengths to be joined.

Specifications

**Light Bars** are rigid polycarbonate 8" (200 mm) long

**Light Sources** are 0.80 Watt LEDs (5 per Light Bar)

**TokiLux Track** is rigid polycarbonate up to 94.625" (2.4 M) long
TokiLux™ Wall Grazer

TokiLux WG is fitted with an optics package making the system ideal for use as a wall-grazing luminaire, and optional channels to enhance performance. A linear glare guard prevents LEDs from being seen from below. Parallel louvers prevent glare from side-viewing perspectives.

Specify by Catalog Number

TokiLux WG comes with 8” Light Bars inserted into a track. Each Light Bar consumes 4.0 watts, and up to 24 may be connected to a single power supply and dimmer pack.

### TLXWG - 2700

<table>
<thead>
<tr>
<th>Code</th>
<th>Lumens Per Foot</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400</td>
<td>285 Lm</td>
<td>2400K</td>
</tr>
<tr>
<td>2700</td>
<td>285 Lm</td>
<td>2700K</td>
</tr>
<tr>
<td>3000</td>
<td>300 Lm</td>
<td>3000K</td>
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### TLXWG - CH - 2700 - AB

<table>
<thead>
<tr>
<th>Extrusion Style</th>
<th>Code</th>
<th>Lumens Per Foot</th>
<th>Color</th>
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</thead>
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<tr>
<td>CH Channel</td>
<td>2400</td>
<td>285 Lm</td>
<td>2400K</td>
</tr>
<tr>
<td>CHV Channel with Parallel Louvers</td>
<td>2700</td>
<td>285 Lm</td>
<td>2700K</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>300 Lm</td>
<td>3000K</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mounting</th>
<th>Code</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB Fixed</td>
<td>2400</td>
<td>CH</td>
</tr>
<tr>
<td>AB Adjustable</td>
<td>2700</td>
<td>CHV</td>
</tr>
</tbody>
</table>

Our 18˚ x 48˚ spread lens delivers an evenly distributed wash of light to surfaces over greater distances.
TokiLux WG fixtures come with 4 watt Light Bars inserted into a track. A single track may have from 1 to 12 Light Bars. Multiple tracks can be interconnected with up to 24 Light Bars. Spacing of the LEDs is consistent throughout the system creating a uniform lighting effect. Channel fixtures are shipped complete with mounting brackets and mounting clamps installed.

**Specifications**

**TokiLux WG Channel** is extruded aluminum with black powder-coat finish

**TokiLux WG Louvers** are aluminum with black powder-coat finish

**Light Sources** are 0.80 watt LEDs (5 per Light Bar)

**Light Bars** are rigid polycarbonate 8” (200 mm long)

**TokiLux Track** is rigid polycarbonate up to 94.625” (2.4 M) long
TokiLux™ KT Kelvin Tuning

TokiLux KT is a welcome addition to our product line. Two circuits of LEDs are incorporated into each fixture. Any color combination between 2200K and 4500K can be tuned in.

Controls include our user-friendly stand alone Dimming System, or our DMX System when greater control is required. Both systems are easily expandable for larger scale work requiring multiple dimmer packs.

Specify by Catalog Number

<table>
<thead>
<tr>
<th>Code</th>
<th>Lumens Per Foot</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLX-KT</td>
<td>165 Lm - 330 Lm</td>
<td>2200K - 4500K</td>
</tr>
</tbody>
</table>

TokiLux KT Series has a light distribution of 120 degrees. This broad distribution of light and the compact profile make it ideal for applications under shelves, in cabinets, within ceiling coves and for use in showcase lighting.

Specifications

- **Light Bars** are rigid polycarbonate 8" (200 mm) long
- **Light Sources** are 0.80 Watt LEDs (5 per Light Bar)
- **TokiLux Track** is rigid polycarbonate up to 94.625" (2.4 M) long
System Overview

TokiLux KT fixtures include 4 watt Light Bars inserted into a track. A single track may have from 1 to 12 Light Bars. Multiple tracks can be interconnected with up to 24 Light Bars. Spacing of the LEDs is consistent throughout the system creating a uniform lighting effect.

**Feed Connector**
Part#: TLX-CON-KT
One Feed Connector can power up to 24 Light Bars.

**Flex Connector**
Part#: TLX-FLC-KT
Flex Connectors with 2” wires are used to turn corners and enable smaller sections of TokiLux to conform to curves.

**Mounting Clamp**
Part#: TLX-CP
TokiLux is installed with Mounting Clamps. Recommended spacing is every 12”.

**End Cap**
Part#: TLX-ED-KT
An End Cap is required at the end of a fixture run.

**KT Dimming System**

This proprietary dimming system provides the ability to tune in a kelvin temperature with one slide, and full-range dimming of the selected choice with the other. The LC-KT-DMR Wall Dimmer connects to one LC-KT-SCDP Dimmer Pack/Signal Converter. Up to 25 LC-KT-DP 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.

**DMX Dimming System**

TokiLux KT may be operated from addressable DMX systems with a minimum of two address outputs and Master Dimming control capability. Each of our DMX Dimmer Pack/Driver combinations is capable of operating up to twenty-four 4 watt LED Bars (96 Watts maximum). Up to 36 Dimmer Packs can be linked together. A Splitter is required for longer runs.

**Part #: LC-3CH-DMX**
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
TokiLux™ RGB

Tokistar’s TokiLux RGB color changing system creates vibrant and perfectly blended color. The compact profile is ideal for use in confined spaces or as edge lighting. Our control systems are easy to program and readily changed or animated to complement any theme or environment.

Operating efficiency adds to the overall economy and appeal of TokiLux. The 24 VDC system consumes only 3.6 Watts per foot. Although the life rating of LEDs is remarkable, independent Color Bars can be replaced to ensure the system is easily maintained for years of continuous service.

Specify by Catalog Number

<table>
<thead>
<tr>
<th>Code</th>
<th>Color</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLX-RGB</td>
<td>RGB Combination</td>
<td>Tri-Color LED</td>
</tr>
</tbody>
</table>

TokiLux RGB uses Tri-Color LED modules. This ensures a perfect blended color on the reflective surface no matter how close the fixture is positioned.

Specifications

- **Color Bars** are rigid polycarbonate 8” (200 mm) long
- **RGB Light Sources** are 0.24 Watt / 24 VDC LEDs (10 per Color Bar)
- **TokiLux Track** is rigid polycarbonate up to 94.625” (2.4 M) long
System Overview

TokiLux RGB fixtures include 2.4 watt Color Bars inserted into a track. A single track may have from 1 to 12 Color Bars. Multiple tracks can be interconnected with up to 40 Color Bars. Spacing of the LEDs is consistent throughout the system creating a uniform lighting effect.

Feed Connector
Part#: TLX-CON-RGB
One Feed Connector can power up to 40 Light Bars.

Mounting Clamp
Part#: TLX-CP
TokiLux is installed with Mounting Clamps. Recommended spacing is every 12”.

Flex Connector
Part#: TLX-FLC-RGB
Flex Connectors with 2” wires are used to turn corners and enable smaller sections of TokiLux to conform to curves.

End Cap
Part#: TLX-ED-RGB
An End Cap is required at the end of a fixture run.

Color Mix Control System

Our economical Color Mix System is capable of being operated on demand. 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 control station to the last dimmer pack. CAT5 cables are included with units.

Color Mix features include:
• Cross-Fading, Fading, Flashing
• Ten memory locations to mix and store favorite colors
• Six animation patterns

DMX Control System

TokiLux RGB may be operated from addressable DMX systems with a minimum of 3 address outputs. Each of our DMX Dimmer Pack/Driver combinations is capable of operating up to forty 2.4 watt LED Bars (96 Watts maximum). Up to 36 Dimmer Packs can be linked together. A Splitter is required for longer runs.

Part #: LC-3CH-DMX
Max. Load: 96 Watts @ 24VDC
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
TokiLux Design Guidelines

TokiLux may be specified in a variety of configurations for use in indirect lighting applications. All versions include a track fitted with Light Bars. Each Light Bar measures 8” (200 mm). A single fixture can include from 1-12 Light Bars.

In the cases of TokiLux Basic, WG & KT, each Light Bar consumes 4 watts and up to 24 Light Bars (96 watts) may be connected together. In the case of TokiLux RGB, each Color Bar consumes 2.4 watts and up to 40 Color Bars (96 watts) may be connected together.

### TokiLux Basic/WG/KT

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Bars</th>
<th>Watts</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLX-(Ordering Code)-1</td>
<td>1</td>
<td>4</td>
<td>8”</td>
</tr>
<tr>
<td>TLX-(Ordering Code)-2</td>
<td>2</td>
<td>8</td>
<td>15.875”</td>
</tr>
<tr>
<td>TLX-(Ordering Code)-3</td>
<td>3</td>
<td>12</td>
<td>23.75”</td>
</tr>
<tr>
<td>TLX-(Ordering Code)-4</td>
<td>4</td>
<td>16</td>
<td>31.625”</td>
</tr>
<tr>
<td>TLX-(Ordering Code)-5</td>
<td>5</td>
<td>20</td>
<td>39.5”</td>
</tr>
<tr>
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<td>6</td>
<td>24</td>
<td>47.375”</td>
</tr>
<tr>
<td>TLX-(Ordering Code)-7</td>
<td>7</td>
<td>28</td>
<td>55.25”</td>
</tr>
<tr>
<td>TLX-(Ordering Code)-8</td>
<td>8</td>
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<td>63.125”</td>
</tr>
<tr>
<td>TLX-(Ordering Code)-9</td>
<td>9</td>
<td>36</td>
<td>71”</td>
</tr>
<tr>
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<td>10</td>
<td>40</td>
<td>78.7875”</td>
</tr>
<tr>
<td>TLX-(Ordering Code)-11</td>
<td>11</td>
<td>44</td>
<td>86.75”</td>
</tr>
<tr>
<td>TLX-(Ordering Code)-12</td>
<td>12</td>
<td>48</td>
<td>94.625”</td>
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<td>13</td>
<td>52</td>
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<td>14</td>
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<td>60</td>
<td>118.25”</td>
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<td>16</td>
<td>64</td>
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<tr>
<td>TLX-(Ordering Code)-24</td>
<td>24</td>
<td>96</td>
<td>189.125”</td>
</tr>
</tbody>
</table>

### TokiLux RGB

<table>
<thead>
<tr>
<th>Part Number</th>
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<th>Watts</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
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<td>200 mm</td>
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<tr>
<td>TLX-(Ordering Code)-2</td>
<td>8</td>
<td>15.875”</td>
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<tr>
<td>TLX-(Ordering Code)-3</td>
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<td>23.75”</td>
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</tr>
<tr>
<td>TLX-(Ordering Code)-4</td>
<td>16</td>
<td>31.625”</td>
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<td>TLX-(Ordering Code)-5</td>
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<td>TLX-(Ordering Code)-6</td>
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<td>TLX-(Ordering Code)-7</td>
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<td>TLX-(Ordering Code)-8</td>
<td>32</td>
<td>63.125”</td>
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<td>TLX-(Ordering Code)-9</td>
<td>36</td>
<td>71”</td>
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<tr>
<td>TLX-(Ordering Code)-10</td>
<td>40</td>
<td>78.7875”</td>
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<td>TLX-(Ordering Code)-11</td>
<td>44</td>
<td>86.75”</td>
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<td>102.5”</td>
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<td>TLX-(Ordering Code)-24</td>
<td>96</td>
<td>189.125”</td>
<td></td>
</tr>
</tbody>
</table>

### Fixture Lengths

Fixtures cannot be trimmed on site, so the overall length is based upon the number of Light Bars included. Check the sizes and lengths chart for precise measurements.
Conforming to Curves

TokiLux fixtures will not curve, but flex connectors can interconnect smaller sections to conform to curves as shown. In this case each length of TokiLux requires a minimum of two mounting brackets.

Secondary Lead Wire

Leads on feed connectors are 6 ft. long. Additional lead wire may be spliced on by the installer in order to reach remote LED driver locations. The distance from the fixture to the power supply and the load of the fixture will determine the proper size of secondary wire. This chart provides recommended distance of the secondary circuit using #12 AWG based upon the loads shown.

<table>
<thead>
<tr>
<th>Load / Amps</th>
<th>Wire Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 watts / 1 amp</td>
<td>130' (40 M)</td>
</tr>
<tr>
<td>48 watts / 2 amps</td>
<td>98' (30 M)</td>
</tr>
<tr>
<td>72 watts / 3 amps</td>
<td>65' (20 M)</td>
</tr>
<tr>
<td>96 watts / 4 amps</td>
<td>32' (10 M)</td>
</tr>
</tbody>
</table>

Mounting Methods

All systems are installed using mounting clamps, with the exception of TokiLux WG channel fixtures. Channel fixtures are supplied with clamps installed.

Mounting clamps are screwed into place and concealed behind the fixture. Recommended spacing is 12” on center.

Optional channels may be specified with fixed or adjustable mounting brackets to target and precisely focus light where needed. Fixtures are provided with brackets installed.
TokiLux Power Supplies/Dimming

24 VDC LED Drivers
TokiLux Systems are operated from Tokistar’s range of UL Listed 24 VDC LED Drivers. These Class 2 power supplies have a single or dual outputs limited to 96 watts/4 amps. The input is universal ranging from 100 to 277 VAC 50/60 Hz.

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

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.

24 VAC Magnetic Transformers
TokiLux Basic and WG/Wall Grazing Systems may also be operated from Tokistar 24 VAC magnetic transformers. Although these are fully dimmable on the primary input with phase control/triac dimming systems, they may not show favorable results at all dim levels.

Optimum dimming results are achieved with our 24VDC Drivers and our pulse-width modulation (PWM) dimming devices installed on the secondary output of drivers.

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: -30ºC~+50ºC

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

Light Bar Capacity
- 4.0 Watt Light Bars: 24 each
- 2.4 Watt Color Bars: 40 each

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, Overcurrent, Short Circuit
- Operating Temperature: -25ºC to +60ºC

Mechanical Specifications
- Dimensions: 4.5” x 12.3” x 2.4”
- Weight: 2.55Kg / 5.6 lbs
- Enclosure Rating: Nema 3/IP65
- Mounting: Flange Mount
- Connection: Knockouts for 1/2” Conduit
- Safety Standards
  - UL 1012/1585, UL8750, UL Class 2, TUV
  - EN60950-1, EN61347-1, EN61347-2-3 Ind.
  - CAN/CSA C22.2 No. 223-M91, IP67 Rated

Light Bar Capacity
- 4.0 Watt Light Bars: 48 each
- 2.4 Watt Color Bars: 80 each

These transformers have a primary input of 120 VAC/60 Hz. All transformers are provided in enclosures rated Nema 3R.
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 0/1-10VDC 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 operate. In this case, no external dimming device is required.

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-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. The unit installs in a single-gang box.

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”