

TOKISTAR TokiLux



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 24VDC 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 the TokiLux basic system, the product line also includes:

- 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 2400 to 4500K
- TokiLux RGB
Tri-Color LEDs with full-range color mixing capability



TokiLux compact profile is easily concealed within shelving units.
Daikanyama Tsutaya Books Anjin / Photo: Nacasa & Partners



TokiLux WG with 2700K LEDs warmly accents this mural.
Design: NAO Taniyama & Associates

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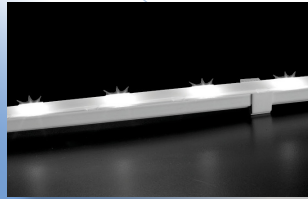


Cover: TokiLux 4500K provides a striking backdrop.
Design: S.U Architectural Design/
Shinichiro Baba



Indirect TokiLux creates a stylish display on this ceiling.

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 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 2400K to 4500K. You can then dim the selection to the desired brightness level.

TokiLux™ RGB



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 2000, 2400, 2700, 3000 and 4500K are available to complement any interior. The remarkable life ratings of our LEDs and replaceable Light Bars ensure the system will provide years of continuous service.

TokiLux consumes only 6 watts per foot and operates from our 24VDC LED drivers. We offer a variety of dimming options. In all cases the output to our fixtures is Pulse Width Modulation (PWM) for flicker-free operation.

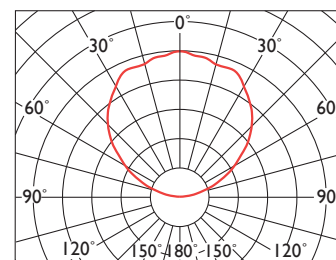
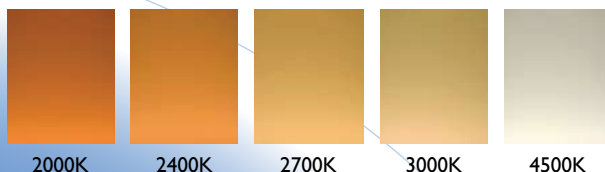
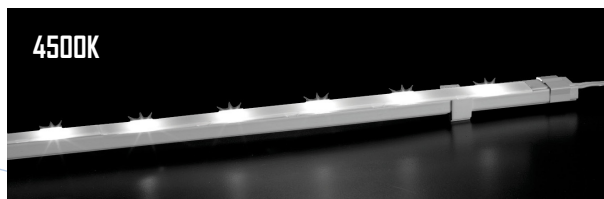
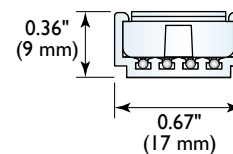


TokiLux is ideal for illuminating shallow ceiling coves.

Specify by Catalog Number

TLX - 2400

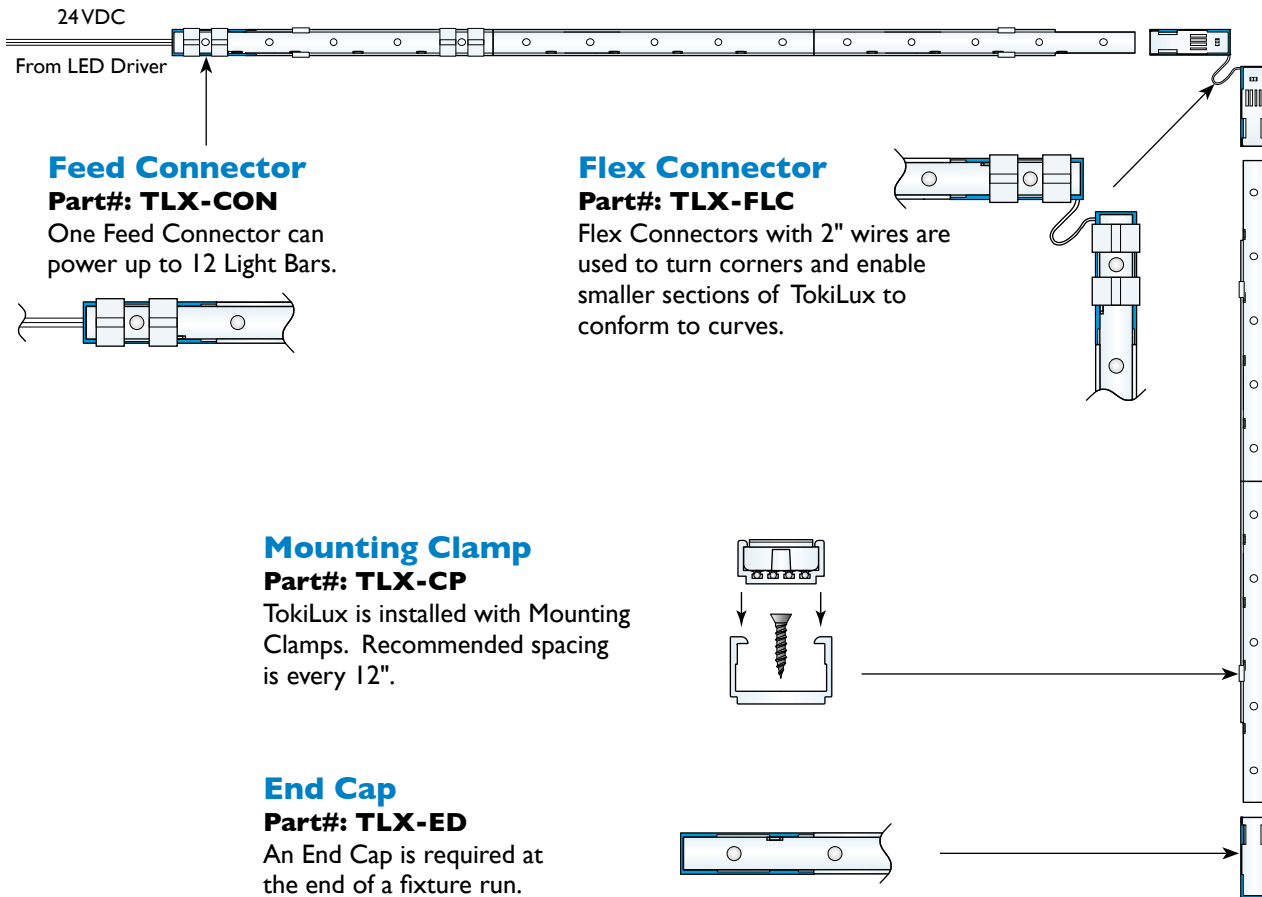
LED				
Code	Lumens Per Watt	Lumens Per Foot	CRI Value	Kelvin
2000	50.0	300 Lm	85	2000K
2400	62.5	375 Lm	85	2400K
2700	70.0	420 Lm	85	2700K
3000	72.5	435 Lm	85	3000K
4500	82.5	495 Lm	85	4500K



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

System Overview

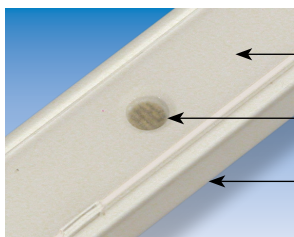
TokiLux fixtures come with 4 watt Light Bars inserted into a track. A single track may have from 1 to 12 Light Bars. Multiple tracks can be interconnected with up to 12 Light Bars from a single feed point. Spacing of the LEDs is consistent throughout the system creating a uniform lighting effect.



Specifications



TokiLux is ETL Listed and marked in accordance with CE Standards.



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

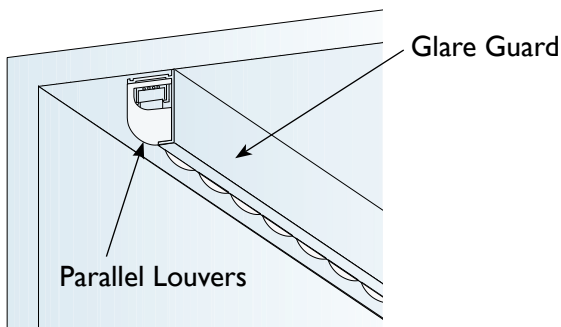
← **Light Sources** are 0.80 Watt LEDs (5 per Light Bar)

← **TokiLux Track** is rigid polycarbonate up to 94.625" (2.4 M) long



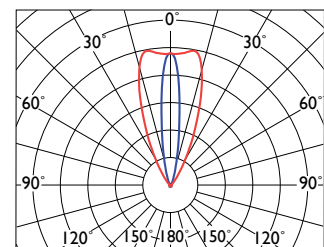
TokiLux™ Wall Grazer

TokiLux WG includes a unique optics package making the system ideal for use as a wall-grazing luminaire. An optional linear glare guard prevents LEDs from being seen from the front and below. Parallel louvers prevent glare from side-viewing perspectives.



TokiLux WG with 2700K LEDs warmly accents this mural.

Our 18° x 48° spread lens delivers an evenly distributed wash of light to surfaces over greater distances.



Specify by Catalog Number

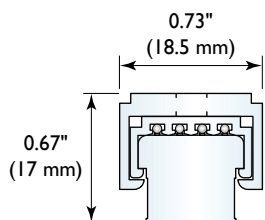
TokiLux WG comes with 8" Light Bars inserted into a track. Each Light Bar consumes 4.0 watts, and up to 24 may be powered from each output on an LED driver.

TLXWG - 2700

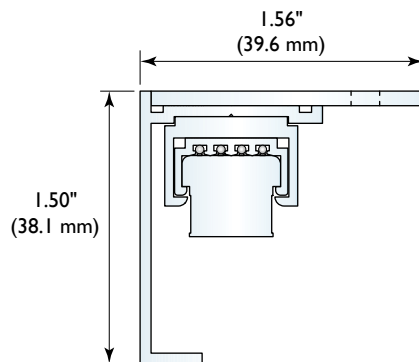
LED		
Code	Lumens Per Foot	Color
2400	285 Lm	2400K
2700	285 Lm	2700K
3000	300 Lm	3000K

TLXWG - CH - 2700 - AB

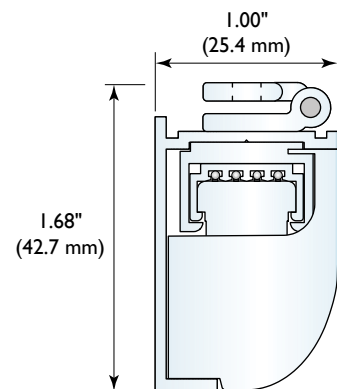
Extrusion Style		LED			Mounting	
Code	Style	Code	Lumens Per Foot	Color	Code	Style
CH	Channel	2400	285 Lm	2400K	FB	Fixed
CHV	Channel with Parallel Louvers	2700	285 Lm	2700K	AB	Adjustable
		3000	300 Lm	3000K		



TLXWG SERIES
(Shown with Mounting Clamp)



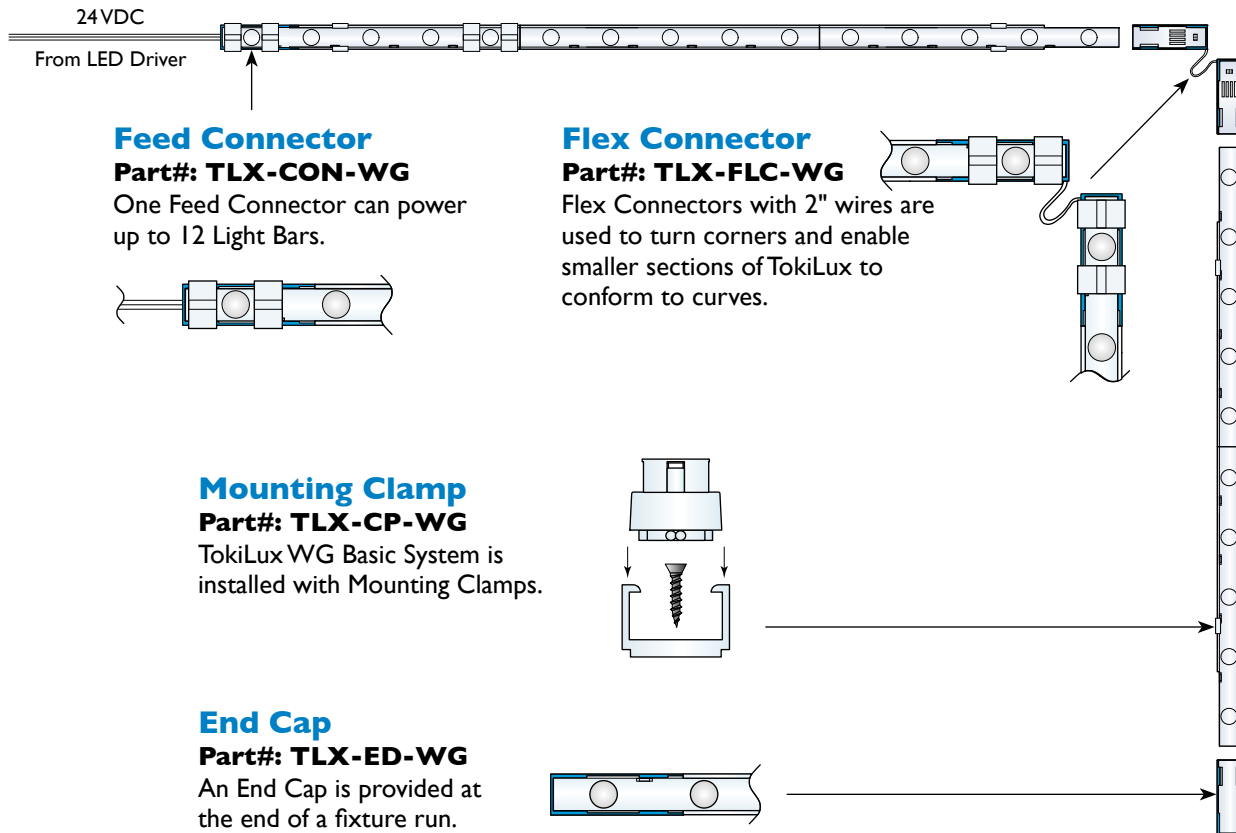
TLXWG-CH SERIES
(Shown with Fixed Bracket)



TLXWG-CHV SERIES
(Shown with Adjustable Bracket)

System Overview

TokiLux WG fixtures are provided with 4 watt Light Bars inserted into a track. A single track may have from 1 to 12 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

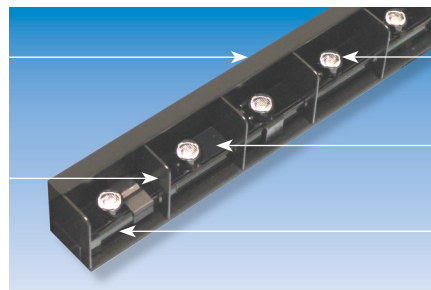


TokiLux is ETL Listed and marked in accordance with CE Standards.



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

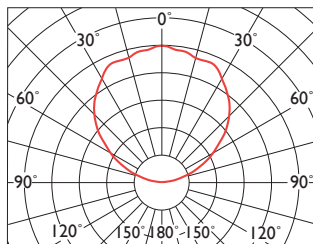
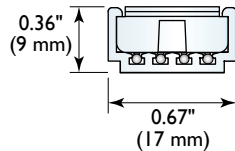
TokiLux KT has two LED circuits incorporated into each fixture. Any color combination between 2400 and 4500K can be tuned in.

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.

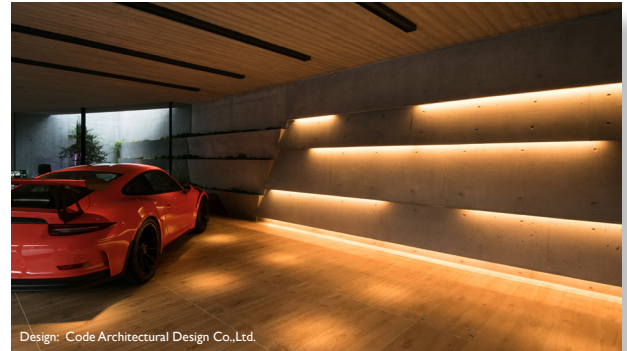
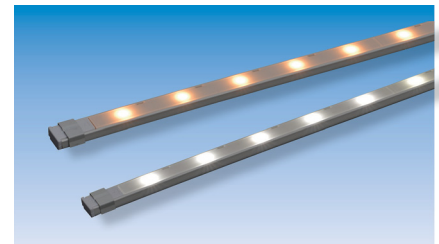
Specify by Catalog Number

TLX-KT

LED		
Code	Lumens Per Foot	Color
TLX-KT	165 Lm - 330 Lm	2400K - 4500K



Our 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.



TokiLux KT 2400K

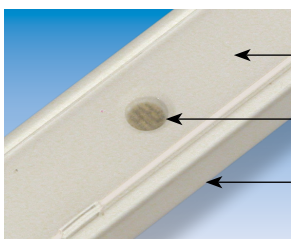


TokiLux KT 4500K

Specifications



TokiLux is ETL Listed and marked in accordance with CE Standards.



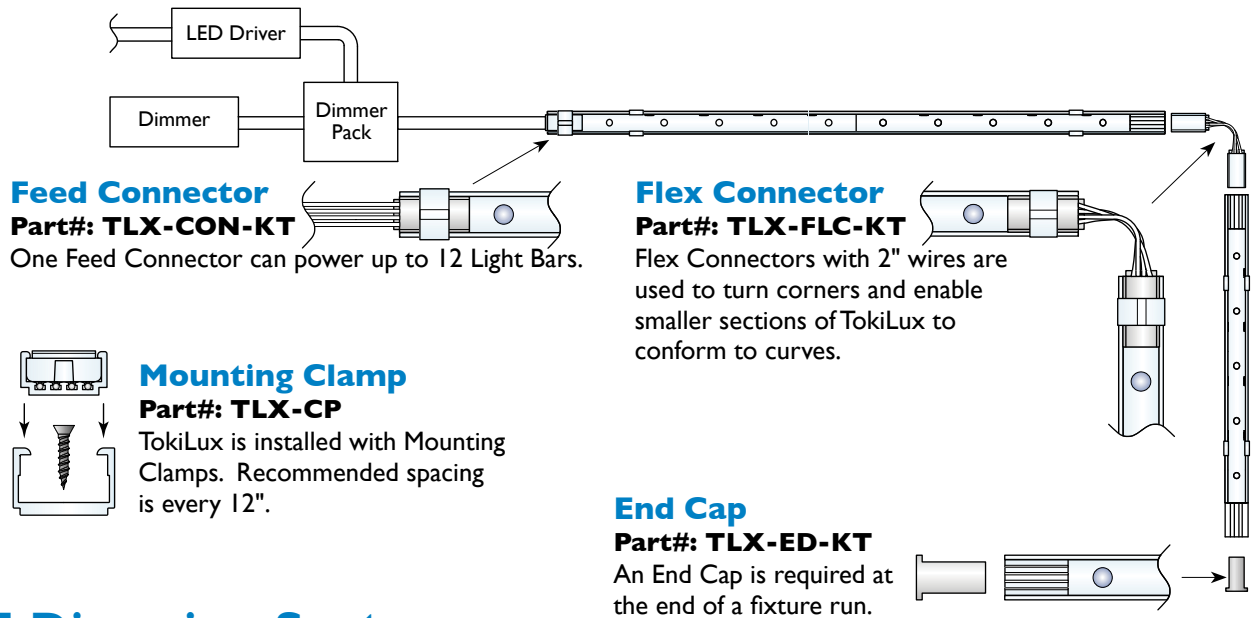
← **Light Bars** are rigid polycarbonate 8" (200 mm) long

← **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. Spacing of the LEDs is consistent throughout the system creating a uniform lighting effect.



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. 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.



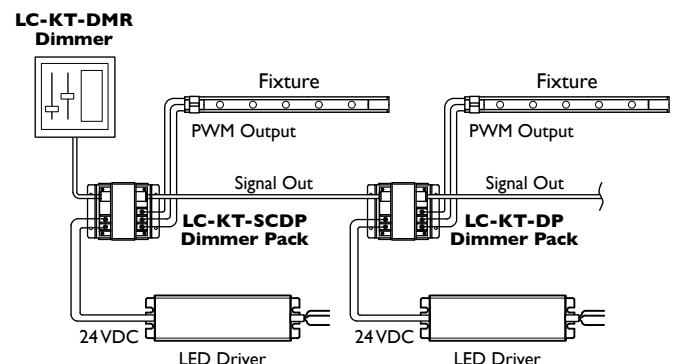
LC-KT-DMR
Wall Dimmer



LC-KT-SCDP
Dimmer Pack



LC-KT-DP
Dimmer Pack



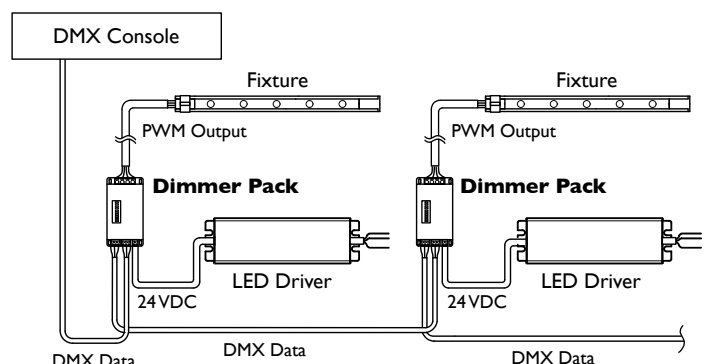
DMX Dimming System

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 @ 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™ 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.

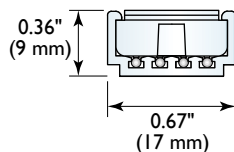
Operating efficiency adds to the overall economy and appeal of TokiLux. The 24 VDC system consumes only 3.6 Watts per foot. Although the life rating of LEDs is remarkable, independent Color Bars can be replaced to ensure the system is easily maintained for years of continuous service.



Specify by Catalog Number

TLX-RGB

LED		
Code	Color	LED
TLX-RGB	RGB Combination	Tri-Color LED

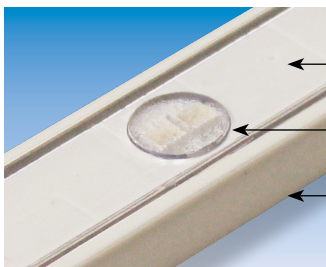


TokiLux RGB uses Tri-Color LED modules. This ensures a perfect blended color on the reflective surface no matter how close the fixture is positioned.

Specifications



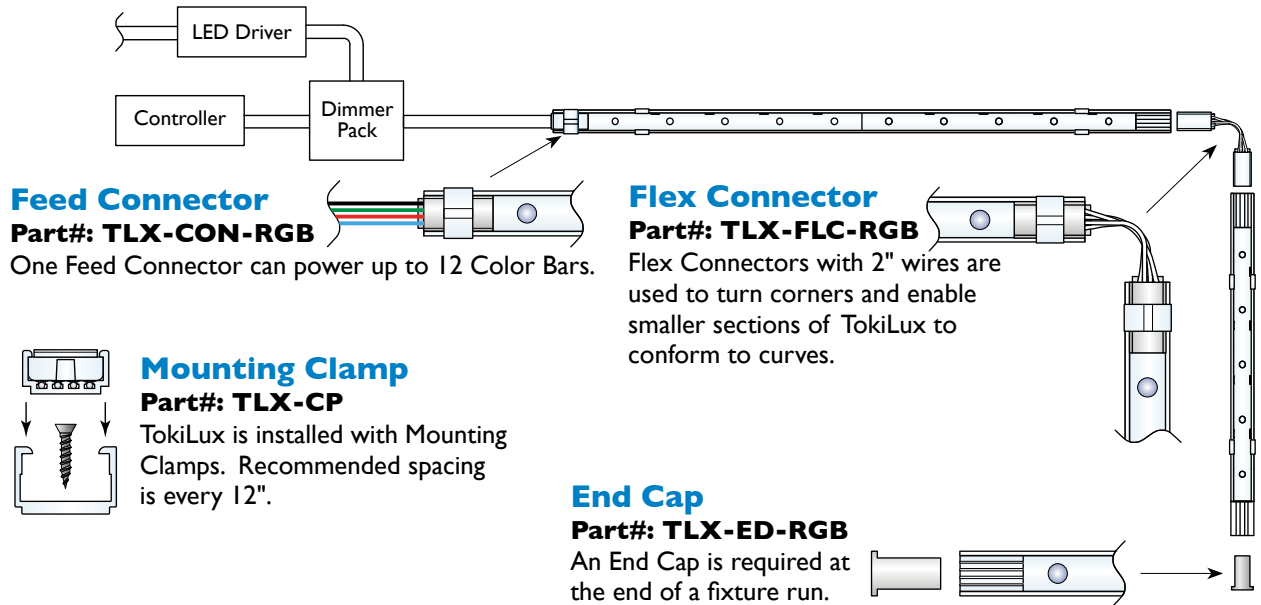
TokiLux is ETL Listed and marked in accordance with CE Standards.



- ← **Color Bars** are rigid polycarbonate 8" (200 mm) long
- ← **RGB Light Sources** are 0.48 Watt / 24 VDC LEDs (5 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. Spacing of the LEDs is consistent throughout the system creating a uniform lighting effect.



Color Mix Control System

Our economical Color Mix System is capable of being operated on demand. Each Dimmer Pack/Driver combination is capable of operating up to forty 2.4 watt LED Bars (96 Watts maximum). 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:

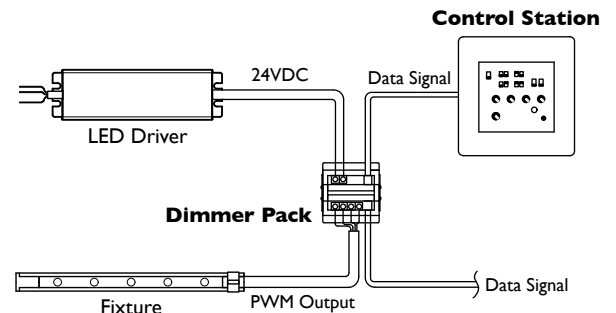
- Cross-Fading, Fading, Flashing
- Ten memory locations to mix and store favorite colors
- Six animation patterns



LC-3CH-CM
Controller



LC-3CH-DP
Dimmer Pack

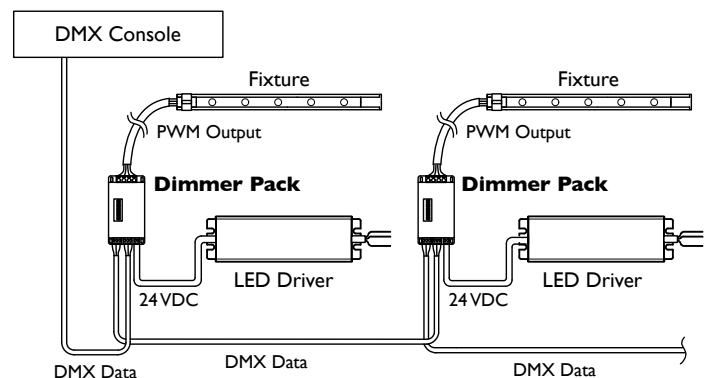


DMX Control System

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 Color 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

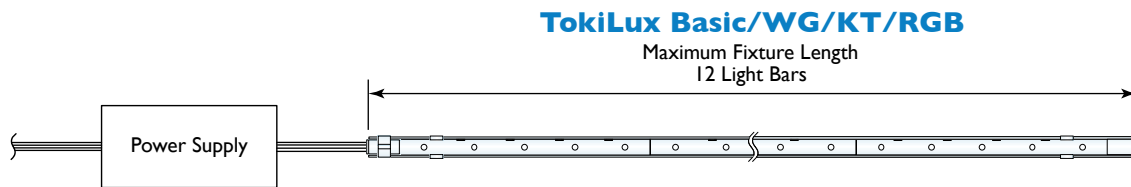




TokiLux Design Guidelines

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.

TokiLux Basic, WG and KT Light Bars consume 4 watts, and up to 12 Light Bars (48 watts) may be connected together. TokiLux RGB Color Bars consume 2.4 watts, and up to 12 Color Bars (28.8 watts) may be connected together.



Fixture Lengths

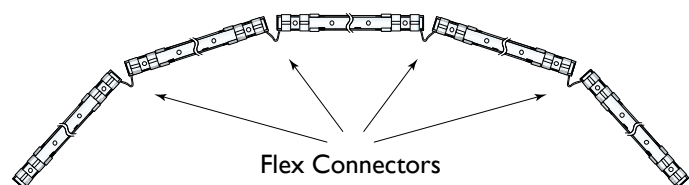
Fixtures cannot be trimmed on site, so the overall length is based upon the number of Light Bars included. Check the sizes and lengths chart for precise measurements.

TokiLux Basic & WG System			
Part Number	Bars	Length	
TLX-(Ordering Code)-1	1	8"	200 mm
TLX-(Ordering Code)-2	2	15.875"	400 mm
TLX-(Ordering Code)-3	3	23.75"	600 mm
TLX-(Ordering Code)-4	4	31.625"	800 mm
TLX-(Ordering Code)-5	5	39.5"	1,000 mm
TLX-(Ordering Code)-6	6	47.375"	1,200 mm
TLX-(Ordering Code)-7	7	55.25"	1,400 mm
TLX-(Ordering Code)-8	8	63.125"	1,600 mm
TLX-(Ordering Code)-9	9	71"	1,800 mm
TLX-(Ordering Code)-10	10	78.875"	2,000 mm
TLX-(Ordering Code)-11	11	86.75"	2,200 mm
TLX-(Ordering Code)-12	12	94.625"	2,400 mm

TokiLux KT & RGB System			
Part Number	Bars	Length	
TLX-(Ordering Code)-1	1	9.875"	250 mm
TLX-(Ordering Code)-2	2	17.75"	450 mm
TLX-(Ordering Code)-3	3	25.625"	650 mm
TLX-(Ordering Code)-4	4	33.5"	850 mm
TLX-(Ordering Code)-5	5	41.375"	1,050 mm
TLX-(Ordering Code)-6	6	49.25"	1,250 mm
TLX-(Ordering Code)-7	7	57.125"	1,450 mm
TLX-(Ordering Code)-8	8	65"	1,650 mm
TLX-(Ordering Code)-9	9	72.875"	1,850 mm
TLX-(Ordering Code)-10	10	80.75"	2,050 mm
TLX-(Ordering Code)-11	11	88.625"	2,250 mm
TLX-(Ordering Code)-12	12	96.5"	2,450 mm

Conforming to Curves

TokiLux fixtures will not curve, but flex connectors allow smaller sections to conform to curves as shown. Each length of TokiLux requires a minimum of two mounting brackets.



Secondary Lead Wire

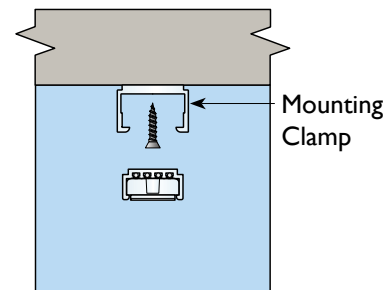
Leads on feed connectors are 6 ft. long. Additional lead wire may be spliced on by the installer in order to reach remote LED driver locations. The length of and the load on the secondary circuit will determine the proper size of secondary wire. This chart provides recommended length of the secondary circuit using #18 AWG based upon the loads shown.

Load / Amps	Wire Length
24 watts / 1 amp	130' (40 M)
48 watts / 2 amps	98' (30 M)
72 watts / 3 amps	65' (20 M)
96 watts / 4 amps	32' (10 M)

Mounting Methods

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

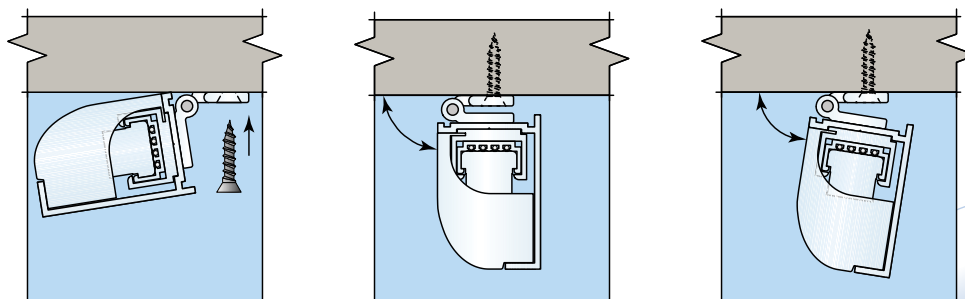
Mounting clamps are screwed into place and concealed behind the fixture. Recommended spacing is 12" on center.



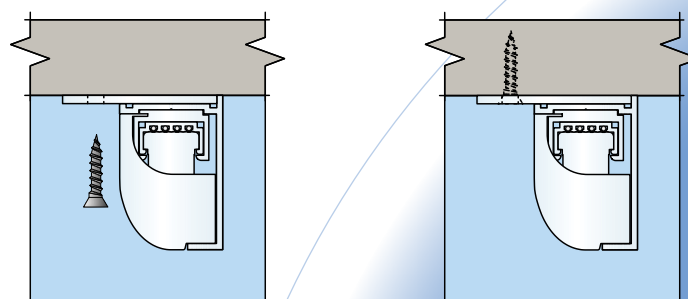
Optional Channels

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.

Adjustable Bracket installation



Fixed Bracket installation





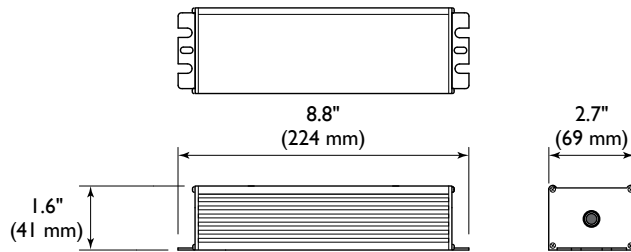
Power Supplies/Dimming

24VDC LED Drivers

TokiLux Systems operate from Tokistar's 24VDC 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 277VAC 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: 24VDC (+/- 3%)
Max. Output Current: 4.0A
Max. Output Power: 96W
Protection: Overload, Over voltage, Short Circuit, Over Temperature
Working Temperature: -30°C~+50°C

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

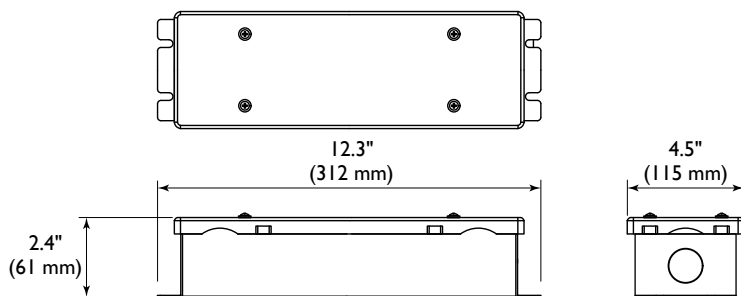
UL 879, UL 8750, UL 1310 Class 2, TUV EN60950-1, EN61347-1, EN61347-2-3 ind. CAN/CSA C22.2 No. 223-M91, IP67 Rated

Light Bar Capacity

4.0 Watt Light Bars: 24 each
2.4 Watt Color Bars: 40 each

LDR24-192

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: 24VDC (Adjustable +5% / -30%)
Max. Output Current: 8.0A (2 @ 4.0A)
Max. Output Power: 192W (2 @ 96W)
Protection: Overload, Overcurrent, Short Circuit
Operating Temperature: -25°C to +60°C

Mechanical Specifications

Dimensions: 4.5" x 12.3" x 2.4"
Weight: 2.55Kg / 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 Wet locations, UL 48,cUL, CE, UL #: E342485

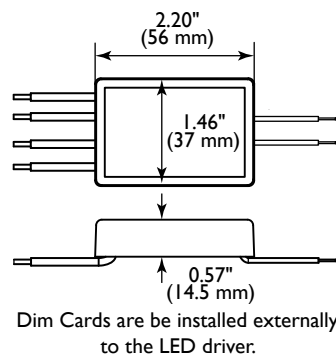
Light Bar Capacity

4.0 Watt Light Bars: 48 each (24 per output)
2.4 Watt Color Bars: 80 each (40 per output)

0/1-10VDC Dim Card

Part #: LDR-DIM

This component is connected to the secondary output of our LED drivers and works from industry-standard 0/1-10VDC dimmers. The output to our fixtures is Pulse Width Modulation (PWM) for flicker-free operation. Two Dim Cards are required when using our dual output LDR24-192 driver.



Technical Specifications:

Control Voltage: 0/1-10VDC
Input Voltage: 24VDC
Max. Load: 96 Watts/4 Amps
Dimming Ratio: 1:10,000
Weatherability: Damp Location/IP65
Size: 0.6" x 2.2" x 5.3" Weight: 55g
Operating Temp: -20°C to 60°C
Case Material: White Polycarbonate
Approvals: UL Listed/CE Certified
Complies with EN55015/FCC Part 15

LC-1CH-MULTI System/24VDC

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.

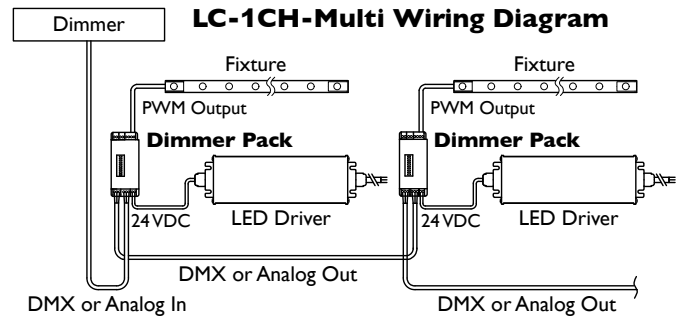


Part #: LC-1CH-MULTI

Technical Specifications:
 Max. Load: 96 Watts @ 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

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, 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 Mode 0/1-10VDC

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.

LC Dimming System/24VDC

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.



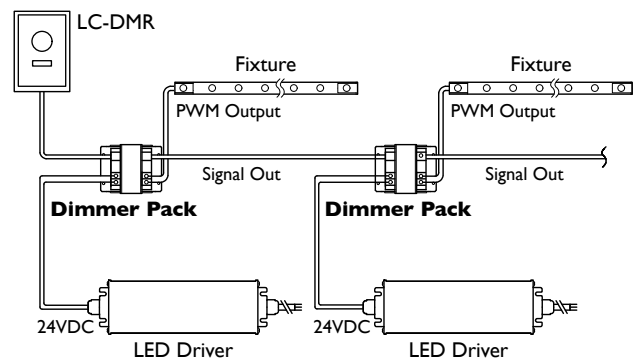
Part #: LC-DMR

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 are communicated through CAT5 cable. Max. Load: 96 Watts @ 24VDC
 Dimensions: 1-1/2" x 3-1/2" x 4-1/16"



TokiLux is ETL Listed
 and marked in accordance
 with CE Standards.





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