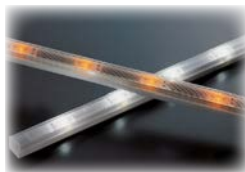


TOKISTAR Cable Lighting



TOKISTAR LIGHTING

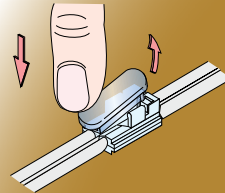


Cable Lighting Systems

Tokistar's innovative and versatile Cable Systems provide uniform soft illumination. Their compact profiles are easily incorporated into shallow ceiling coves, under step nosings, and other confined spaces. They are also a popular choice in exposed applications to highlight architectural details with distinct points of light.

We offer an assortment of energy-efficient LEDs in 2000K, 2500K, 3000K, 5000K and four vibrant colors to complement any setting. These long-lasting LEDs are ideal in low-heat applications and locations subject to vibration.

All of our Cable Lighting Systems are wired in parallel so fixtures can be easily trimmed on site to a precise length. LEDs are individually replaceable so systems are easily maintained.

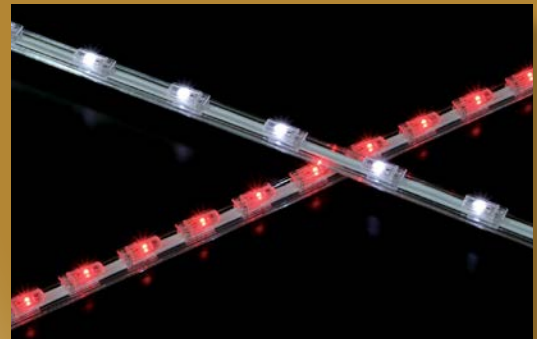


Fingertip pressure on the LED releases it from the socket for quick and easy relamping.



CT Series

CT Series is very flexible and can follow curves in architectural designs to produce subtle indirect lighting from within confined spaces. An optional prismatic lens is available for linear applications.



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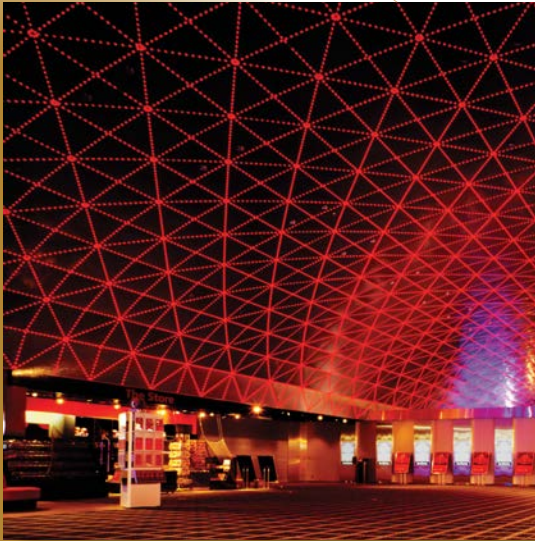
[Specifications /
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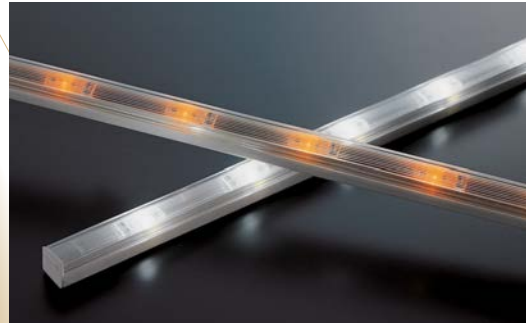
Cover:
Cable Lighting LEDs accent the front of this reception desk.

Design: Tokyu Architects & Engineers
Interior Design: Hashimoto Yukio Design
Photo: Toshio Kaneko



MC Series

Our compact MC Series is the perfect choice for applications within the grooves of architectural elements, walls, ceilings, and floors.



RC Series

RC series is ideal for use in cabinets and beneath railings and ledges. When recessed neatly under a step nosing, it will cast light down the riser and across the lower step.





LEDs

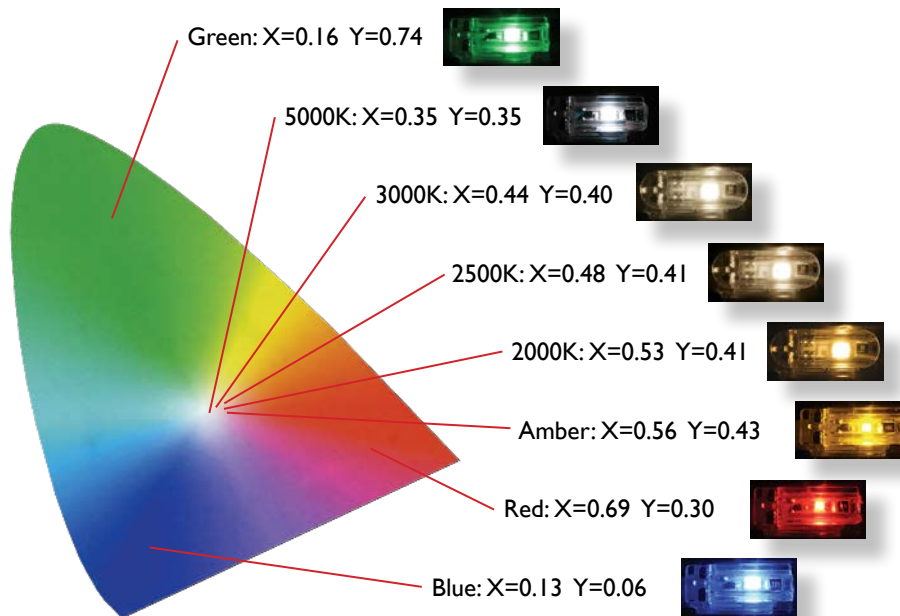


Cable Lighting with 2500K LEDs warmly accents this restaurant interior.

Highly Efficient LEDs

Tokistar's solid-state LEDs consume only 0.2 Watts each and have remarkable life ratings. They generate very little heat and are easily replaceable.

LEDs operate from 8VDC 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.



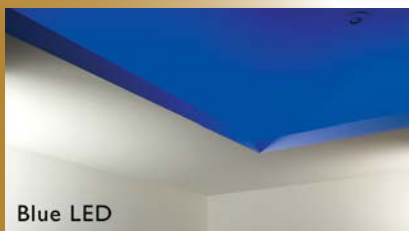
Part Number	LED Color	Watts/Volts	Amps	Life
CLED-2000K	2000K	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-2500K	2500K	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-3000K	3000K	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-5000K	5000K	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-BL	Blue	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-GR	Green	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-RD	Red	0.2 W / 8 VDC	25.0 mA	80,000 - 100,000 Hours
CLED-AM	Amber	0.2 W / 8 VDC	25.0 mA	80,000 - 100,000 Hours

Life for LEDs is defined as the time when lumen output depreciates to 70% of its initial value. Actual lifetime may vary based upon environmental conditions.



Tokistar white LEDs are available in four color temperatures. Our 2000K creates a very elegant candlelight atmosphere. The 2500K and 3000K do an outstanding job of emulating the warmth of traditional incandescent light. The 5000K LED is ideal for adding cool-white color.

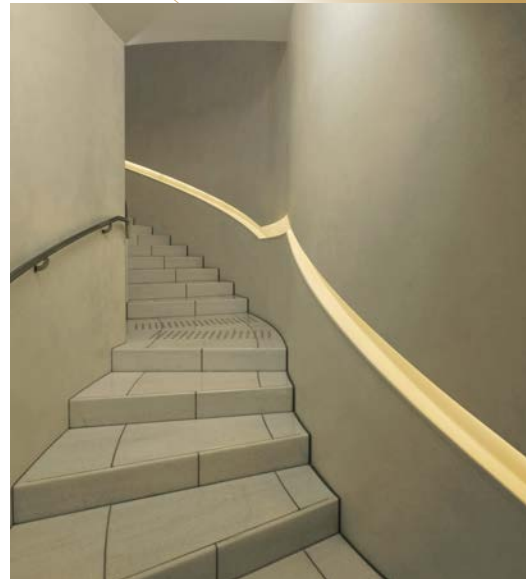
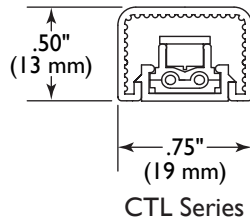
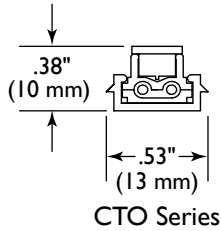
Blue, green, red and amber LEDs create vibrant color. Since LEDs can be removed easily from their sockets, multiple colors in the same fixture can create perfectly blended colors of indirect light.





CT Series

The CTO "Contour" Series is extremely compact and flexible. It is easily incorporated under shallow overhangs or within very tight architectural details. The CTL Series includes a rigid prismatic lens to magnify the light source for greater impact in exposed linear applications.



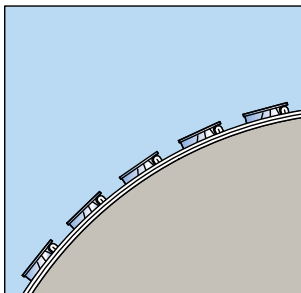
Design Guidelines

Socket Spacing

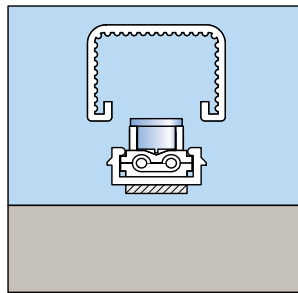
For indirect applications without the lens cover, 1.2" or 2" spacing is recommended. In exposed applications, the prismatic lens spreads and magnifies the light so more distant spacings can achieve the desired effect. In this case, 3", 4" or 6" spacing is best.

CTO - 50 - 2000K

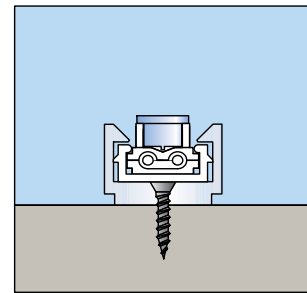
Series		Socket Spacing		Light Source		
Code	Description	Code	Inches (mm)	Code	Style	Watts/Volts
CTO	No Lens	30	1.2" (30 mm)	2000K	2000K LED	0.2 W / 8VDC
CTL	Clear Lens	50	2.0" (50 mm)	2500K	2500K LED	0.2 W / 8VDC
		80	3.0" (80 mm)	3000K	3000K LED	0.2 W / 8VDC
		100	4.0" (100 mm)	5000K	5000K LED	0.2 W / 8VDC
		150	6.0" (150 mm)	AM	Amber LED	0.2 W / 8VDC
				BL	Blue LED	0.2 W / 8VDC
				GR	Green LED	0.2 W / 8VDC
				RD	Red LED	0.2 W / 8VDC



Series CTO conforms to a 24" radius facing in or out.



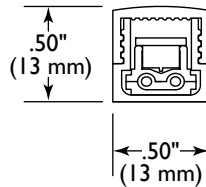
CTO and CTL Series attached with adhesive.



CTO Series attached with CTO-CP mounting clamp.

MC Series

The MC "Mini-Channel" Series compact size makes it ideal for use in grooves, slots and other recesses. A removable cover diffuses light and withstands impact from foot traffic.



Recessed MC Series provides a perfectly linear lighting display on the face of display cases.

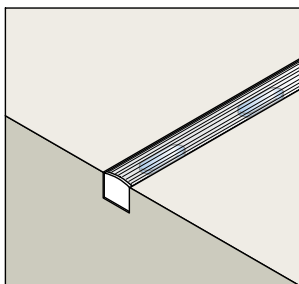
MC - 50 - 5000K

Design Guidelines

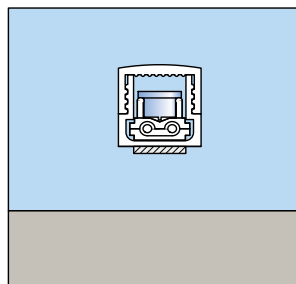
Socket Spacing

For indirect applications, 1.2" or 2" spacing produces the best effects. For points-of-light effects in exposed applications, we recommend 3", 4" or 6" spacing.

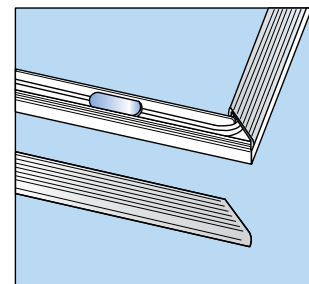
Series		Socket Spacing		Light Source		
Code	Description	Code	Inches (mm)	Code	Style	Watts/Volts
MC	Mini-Channel	30	1.2" (30 mm)	2000K	2000K LED	0.2 W / 8VDC
		50	2.0" (50 mm)	2500K	2500K LED	0.2 W / 8VDC
		80	3.0" (80 mm)	3000K	3000K LED	0.2 W / 8VDC
		100	4.0" (100 mm)	5000K	5000K LED	0.2 W / 8VDC
		150	6.0" (150 mm)	AM	Amber LED	0.2 W / 8VDC
				BL	Blue LED	0.2 W / 8VDC
				GR	Green LED	0.2 W / 8VDC
				RD	Red LED	0.2 W / 8VDC



MC Series is durable enough to withstand foot traffic.



MC Series attached with adhesive.



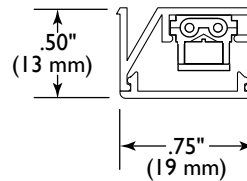
MC Series may be cut to size and mitered in the field.



RC Series



The RC "Recess" Series includes a polycarbonate base and lens designed for indirect lighting applications from within confined spaces. It is an ideal choice for use under step nosings and a variety of other cantilevered applications.



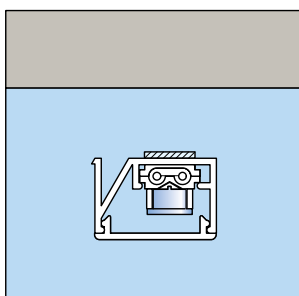
RC - 50 - 3000K

Design Guidelines

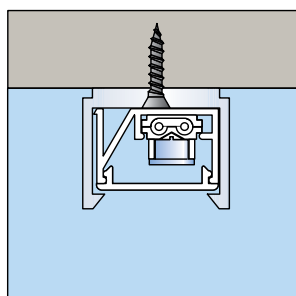
Socket Spacing

Since RC is designed for use as an indirect source, closer spacing produces the best effects. When the fixture is placed close to the reflective surface, such as under a step nosing, we recommend 1.2" spacing for a very uniform wash of light.

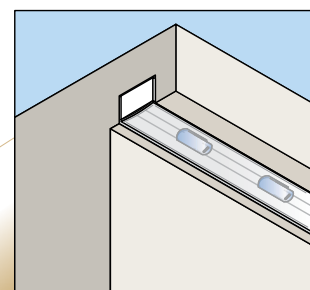
Series		Socket Spacing		Light Source		
Code	Description	Code	Inches (mm)	Code	Style	Watts/Volts
RC	Recess	30	1.2" (30 mm)	2000K	2000K LED	0.2 W / 8 VDC
		50	2.0" (50 mm)	2500K	2500K LED	0.2 W / 8 VDC
		80	3.0" (80 mm)	3000K	3000K LED	0.2 W / 8 VDC
		100	4.0" (100 mm)	5000K	5000K LED	0.2 W / 8 VDC
		150	6.0" (150 mm)	AM	Amber LED	0.2 W / 8 VDC
				BL	Blue LED	0.2 W / 8 VDC
				GR	Green LED	0.2 W / 8 VDC
				RD	Red LED	0.2 W / 8 VDC



RC Series attached with adhesive.



RC Series attached with RC-CP clamp.



RC Series is for use as an indirect light source beneath ledges.

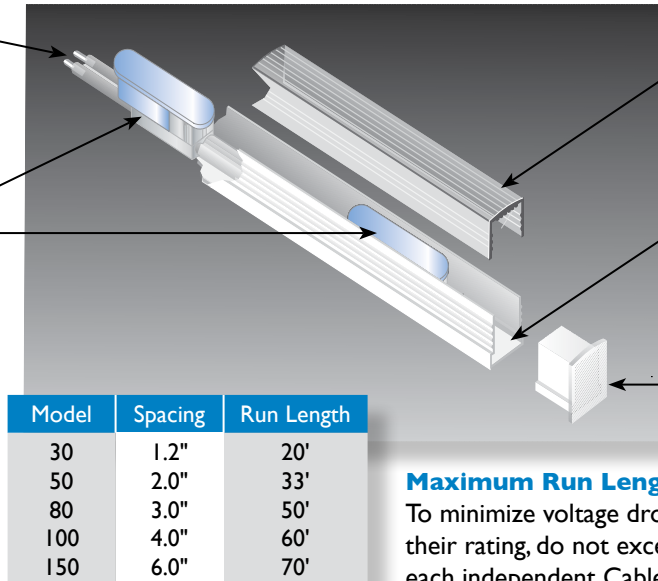
Specifications

Conductors are 18 AWG, PVC insulated with flammability rating: UL 94-HB

Light sources are replaceable 8VDC LEDs



Cable Lighting is ETL Listed to UL Standards and marked in accordance with CE Standards.



Clear lenses are extruded, UV-stabilized polycarbonate with flammability rating: UL 94V-O

Bases are white UV-stabilized, extruded polycarbonate with flammability rating: UL 94V-O

End caps are white molded silicone

Model	Spacing	Run Length
30	1.2"	20'
50	2.0"	33'
80	3.0"	50'
100	4.0"	60'
150	6.0"	70'

Maximum Run Lengths

To minimize voltage drop and keep conductors safely within their rating, do not exceed the maximum lengths shown for each independent Cable Lighting fixture.

Accessories

Adhesive Tape



High-bond adhesive tape may be used to secure the fixtures in place.

Part Number	Width	Roll Size
WF-CL20	5/16"	20 ft

Mounting Clamps



Part#: CTO-CP



Part#: RC-CP

End Caps

Decorative end caps are available as an option. If individual fixtures are positioned end to end, long runs of product may require only two. Framed applications (such as rectangular layouts) may require no end caps at all.



Part#: CT-EC



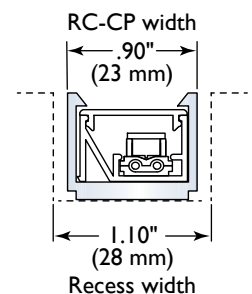
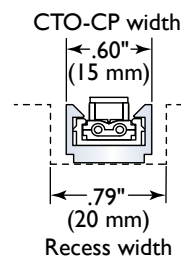
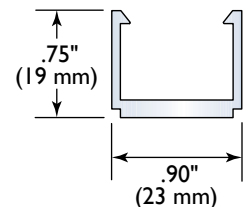
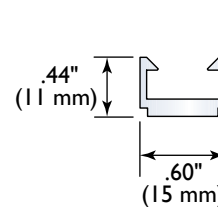
Part#: RC-EC



Part#: MC-EC



Part#: MC-ECL





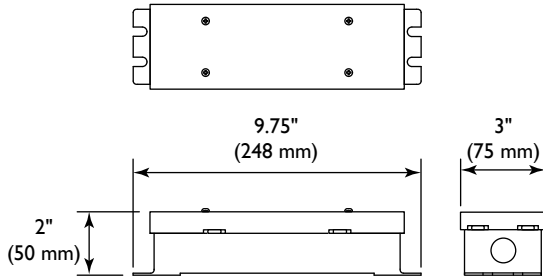
LED Drivers & Dimming

Tokistar Cable Lighting is
ETL Listed when operated
from our LED Drivers.



LDR8-40

Tokistar's LDR8-40 is a 40 Watt Class 2 LED driver used to convert an AC input into an 8VDC output. It may be operated from a wide range of input voltages.



Specifications

Input Range: 100-240VAC
Frequency Range: 50/60 Hz
Output: 8VDC (Adjustable +10% / -25%)
Max. Output Current: 5.0A
Max. Output Power: 40W
Protection: Overload, Overcurrent, Short Circuit
Operating Temperature: -30°C to +60°C

Mechanical Specifications

Dimensions: 3" x 9.75" x 2"
Weight: 1.94 lbs
Enclosure Rating: Nema 3/IP65
Mounting: Flange Mount
Connection: Knockouts for 1/2" Conduit

Compliance/Safety

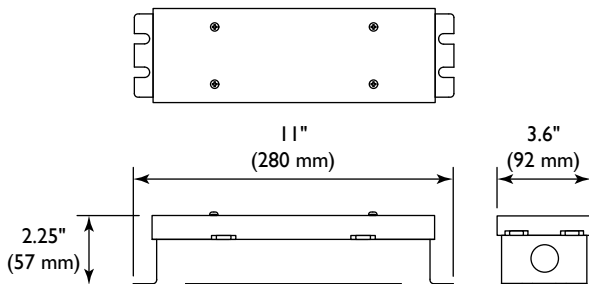
UL 1310 Class 2
CAN/CSA 22.2#9
EN60950

LED Capacity

0.2 Watt LEDs: 200 pieces

LDR8-80

Tokistar's LDR8-80 is a dual output Class 2 LED driver with two independent 40 Watt outputs. It may be operated from a wide range of input voltages.



Specifications

Input Range: 100~240VAC
Frequency Range: 50/60 Hz
Output: 8VDC (Adjustable +5% / -30%)
Max. Output Current: 10.0A (2 @ 5.0A)
Max. Output Power: 80W (2 @ 40W)
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

LED Capacity

0.2 Watt LEDs: 400 pieces (200 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 dimmer cards are required when using our dual output LDR8-80 driver.



Dim Cards are small enough to fit within the wiring compartment of our LDR8-40 LED driver, or they may be installed externally.

Technical Specifications:

Control Voltage: 0/1-10VDC
Input Voltage: 8VDC
Max. Load: 40 Watts/5 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

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.

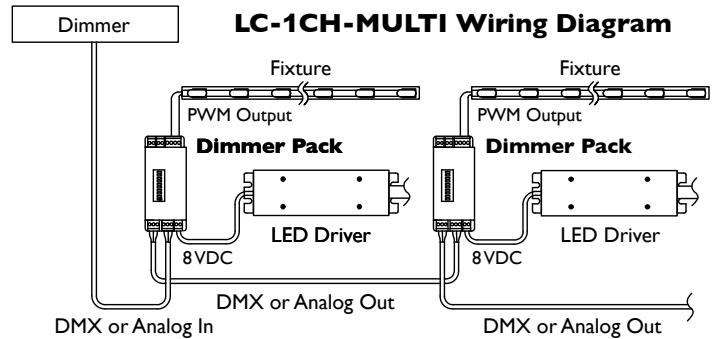


Part #: LC-1CH-MULTI

Technical Specifications:
 Max. Load: 40 Watts @ 8 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

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.

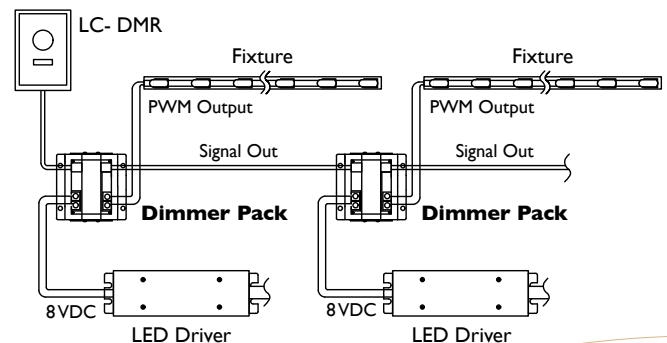
LC Dimming System

This proprietary Dimming System provides full-range dimming of Cable Lighting 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.



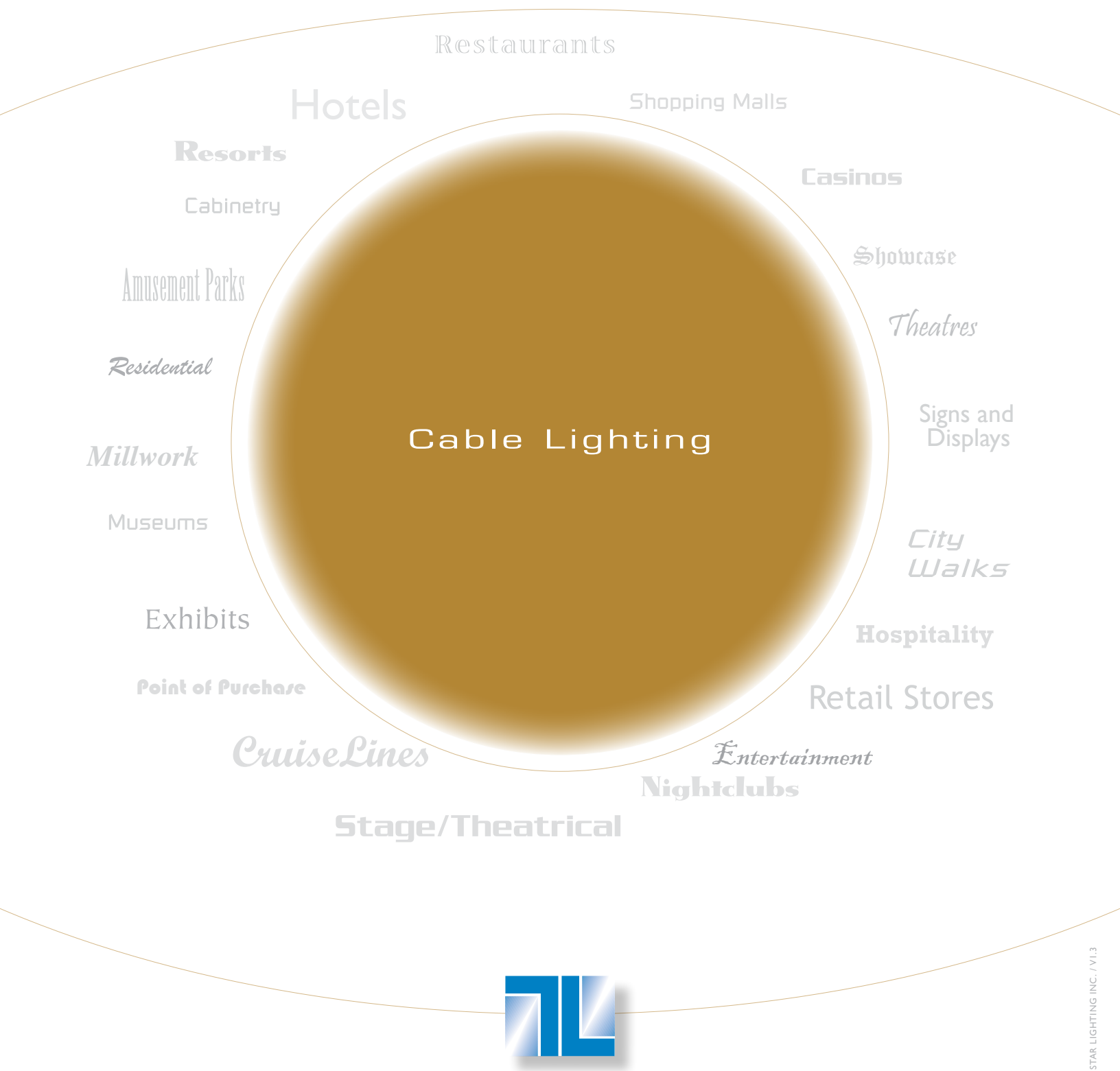
Part #: LC-DMR

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. The unit installs in a single-gang box.



Part #: LC-1CH-DP

Each dimmer pack is capable of operating up to 200 Cable Lighting LEDs. Dimensions: 1-1/2" x 3-1/2" x 4-1/16"



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