TOKISTAR

PRODUCT GUIDE
TAPELIGHT
FANTAZIC LINE
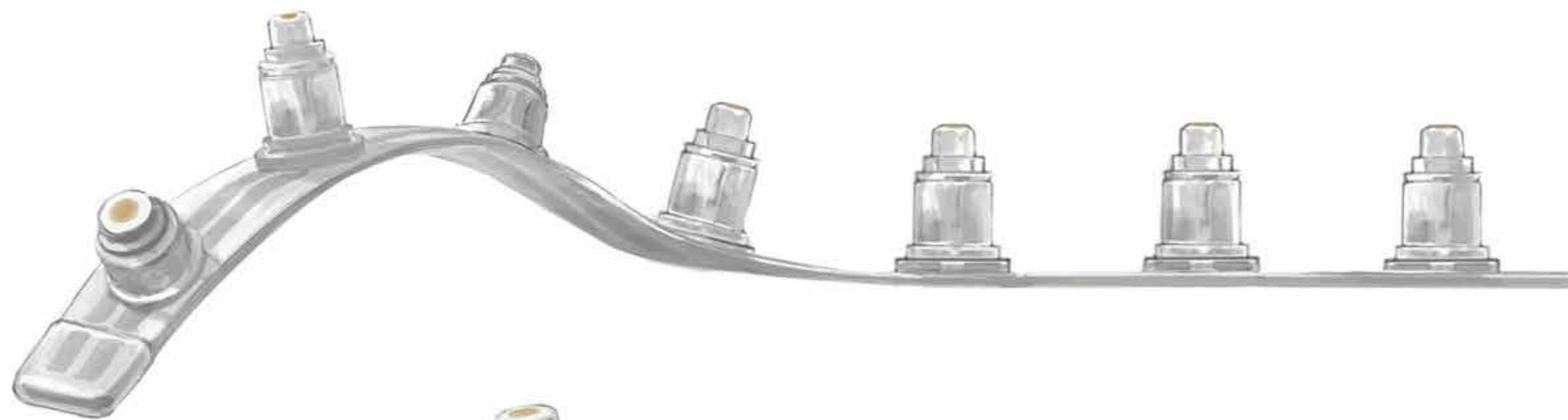
TOKI CORPORATION
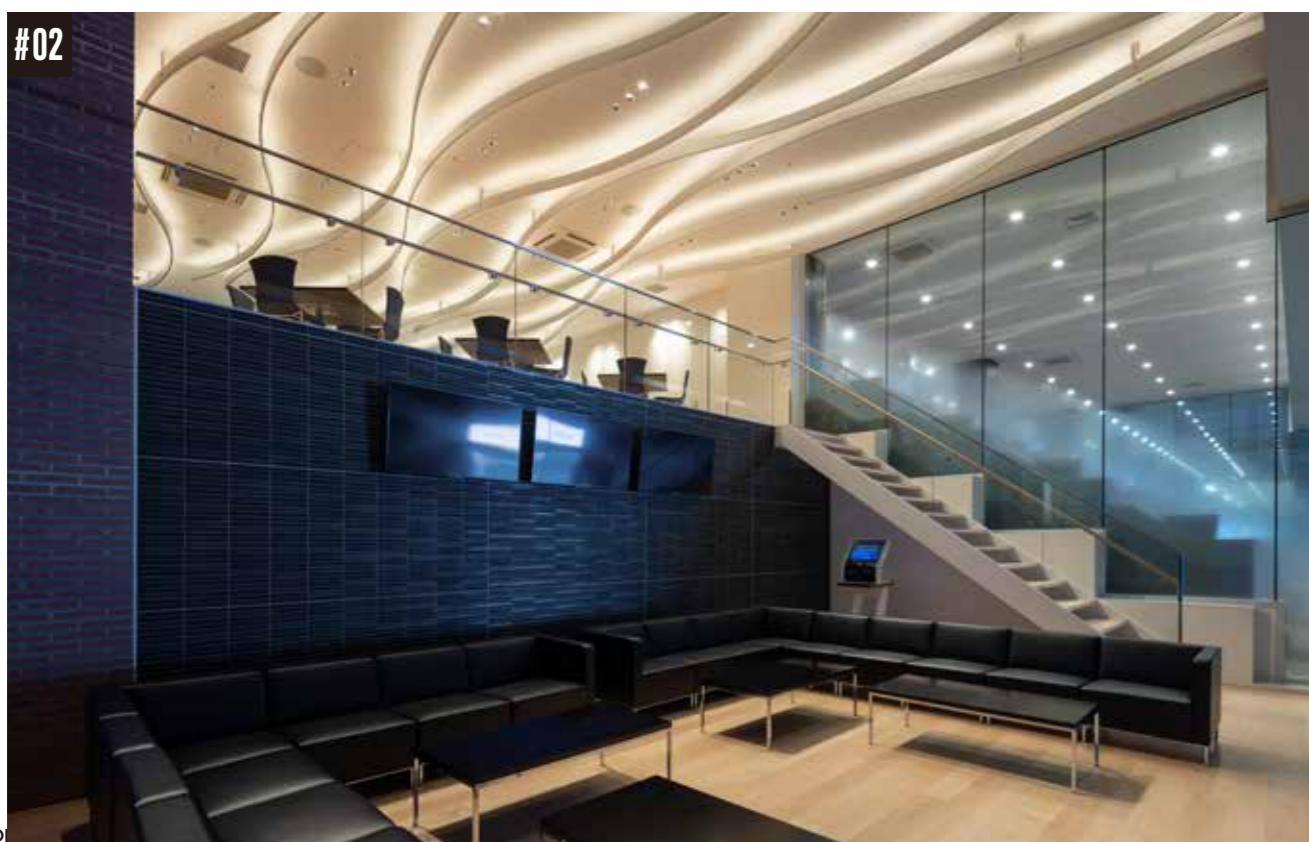
#01

#02

#01 Kobe Nunobiki Herb Gardens View Plaza

LSC-150-WW-WP
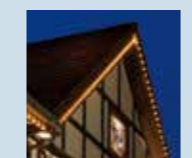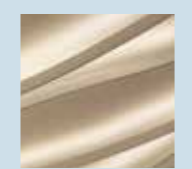Lighting Design : Souk

#02 ROKU Tokoname

TLP-80-IWUB
Design : Masatomo Kojima Architects
Lighting Design : SONOBE DESIGN OFFICE
Photographer : Kai Nakamura

TAPELIGHT

Point 01 Custom orders can be delivered quickly

Orders with various light sources, socket spacings and fixture lengths can be provided.
Even though Tapelight is a semi-custom product, it can be delivered quickly.

※The delivery date may change depending on the product specifications.

Point 02 Parallel wiring allows Tapelight to be cut to size on site

Tapelight may be ordered to specific lengths with any excess easily trimmed. Beautiful eye-catching displays of direct and indirect lighting can be configured for straight lines or curves.

### Point 03 White TokiLeds do an outstanding job of emulating true incandescent light

TokiLeds unique phosphor-colored lens reflects light in all directions, resulting in full-range viewing. The result is high visibility from oblique and horizontal angles. Our LEDs have the natural and soft light distribution characteristics of incandescent lamps.

Typical LED   Full-range viewing TokiLeds
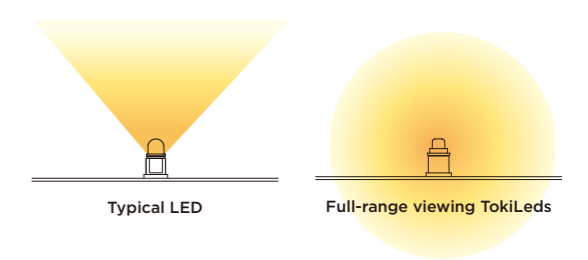
▶▶ Page 3-8

TAPELIGHT Standard TokiLeds

OUTDOOR	IP65	INDOOR	8VDC 0-10V/1-10V	8VDC DMX	CUT OK
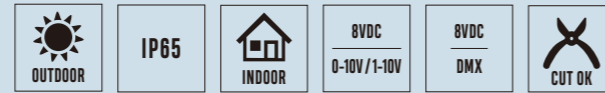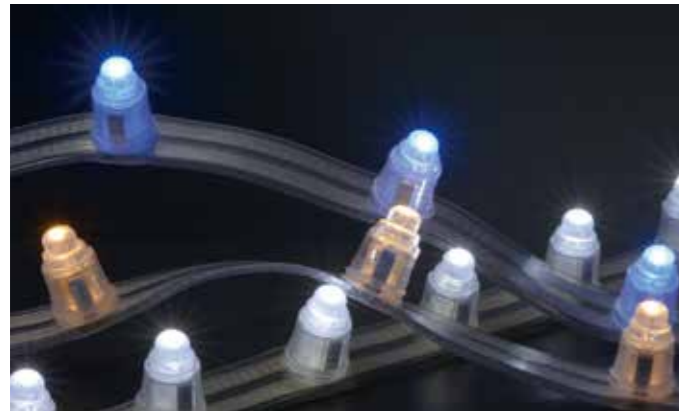
Regular Lighting Type

Voltage = 8VDC
Wattage = 0.1W/LED
Weight = 100g/m
Main Materials = PC, PVC & EP
Lead Cable = 1.25mm² x 2   0.5m attached
Spare end cap included
Pre-installed transparent silicone cap (outdoor use only)

OUTDOOR

LS□-□□□-□□-WP

Cable Color	LED Spacing	LED Color
W : White	30 : 30mm	WW : 2400K
C : Clear	50 : 50mm	IW : 3000K
	80 : 80mm	WH : 6500K
	100 : 100mm	BL : Blue
	150 : 150mm	GR : Green
		MG : Magenta
		RD : Red
		AM : Amber

Catalog#	Power	Max.Length/run
LS_-30-__-WP	3.34W/m	15.9m
LS_-50-__-WP	2.00W/m	20.7m
LS_-80-__-WP	1.25W/m	26.3m
LS_-100-__-WP	1.00W/m	29.5m
LS_-150-__-WP	0.67W/m	36.1m

INDOOR

TLP-□□□-□□

LED Spacing	LED Color
30 : 30mm	WW : 2400K
50 : 50mm	IW : 3000K
80 : 80mm	WH : 6500K
100 : 100mm	BL : Blue
150 : 150mm	GR : Green
	MG : Magenta
	RD : Red
	AM : Amber

※The cable color of the indoor Tapelight is clear.

Catalog#	Power	Max.Length/run
TLP-30-__	3.34W/m	15.9m
TLP-50-__	2.00W/m	20.7m
TLP-80-__	1.25W/m	26.3m
TLP-100-__	1.00W/m	29.5m
TLP-150-__	0.67W/m	36.1m

Lumen value per meter

LED Color \ LED Spacing	30mm	50mm	80mm	100mm	150mm
WW	120	72	45	36	24
IW	133	80	50	40	26
WH	176	106	66	53	35

(lm)

LED Color Image

WW : 2400K
IW : 3000K
WH : 6500K
BL : Blue
GR : Green
MG : Magenta
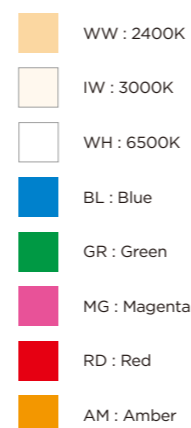RD : Red
AM : Amber

LED Colors, lm

WW : 3.6 lm/LED   CRI = 70   BL : 0.8 lm/LED   RD : 0.4 lm/LED

IW : 4.0 lm/LED   CRI = 70   GR : 3.3 lm/LED   AM : 0.6 lm/LED

WH : 5.3 lm/LED   CRI = 70   MG :1.0 lm/LED

※Please contact us if you require an LED color other than those listed.

Refer to Page 15-16 for the power supplies and dimming of Tapelight Standard TokiLeds.

TAPELIGHT Ultra-Bright TokiLeds

OUTDOOR	IP65	INDOOR	8VDC 0-10V/1-10V	8VDC DMX	CUT OK

Regular UB Lighting Type

Voltage = 8VDC
Wattage = 0.4W/LED
Weight = 100g/m
Main Materials = PC, PVC & EP
Lead Cable = 1.25mm² x 2   0.5m attached
Spare end cap included
Pre-installed transparent silicone cap (outdoor use only)

OUTDOOR

LS□-□□□-□□□□-WP

Cable Color	LED Spacing	LED Color
W : White	30 : 30mm	WWUB : 2400K
C : Clear	50 : 50mm	IWUB : 3000K
	80 : 80mm	WHUB : 6500K
	100 : 100mm	
	150 : 150mm	

Catalog#	Power	Max.Length/run
LS_-30-__-WP	13.34W/m	4.6m
LS_-50-__-WP	8.00W/m	6.7m
LS_-80-__-WP	5.00W/m	9.2m
LS_-100-__-WP	4.00W/m	10.7m
LS_-150-__-WP	2.67W/m	13.6m

INDOOR

TLP-□□□-□□□□

LED Spacing	LED Color
30 : 30mm	WWUB : 2400K
50 : 50mm	IWUB : 3000K
80 : 80mm	WHUB : 6500K
100 : 100mm	
150 : 150mm	

※The cable color of the indoor Tapelight is clear.

Catalog#	Power	Max.Length/run
TLP-30-__	13.34W/m	4.6m
TLP-50-__	8.00W/m	6.7m
TLP-80-__	5.00W/m	9.2m
TLP-100-__	4.00W/m	10.7m
TLP-150-__	2.67W/m	13.6m

Lumen value per meter

LED Color \ LED Spacing	30mm	50mm	80mm	100mm	150mm
WW	366	220	137	110	73
IW	400	240	150	120	80
WH	466	280	175	140	93

(lm)

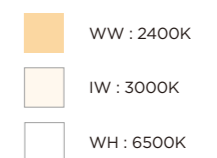### LED Color Image

WW : 2400K
IW : 3000K
WH : 6500K

LED Colors, lm

WWUB : 11 lm/LED   CRI = 85

IWUB : 12 lm/LED   CRI = 85

WHUB : 14 lm/LED   CRI = 85

※Please contact us if you require an LED color other than those listed.
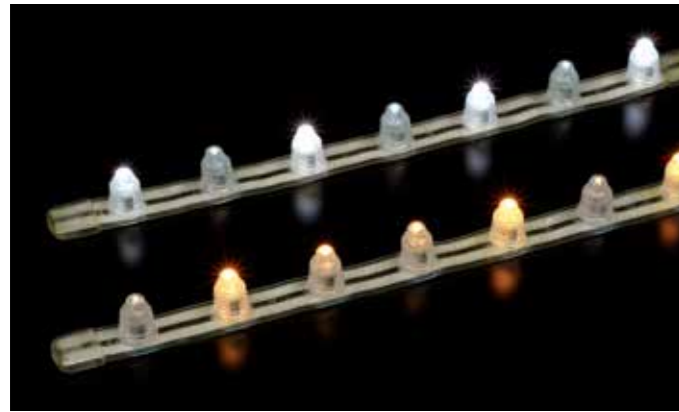
Refer to Page 15-16 for the power supplies and dimming of Tapelight Ultra-Bright TokiLeds.

TAPELIGHT Kinetic TokiLeds

| OUTDOOR | IP65 | INDOOR | 8VDC | CUT OK |

Asynchronous Flashing Type

Voltage = 8VDC
Wattage = 0.2W/LED
Weight = 100g/m
Main Materials = PC, PVC & EP
Lead Cable = 1.25mm² x 2   0.5m attached
Spare end cap included
Pre-installed transparent silicone cap (outdoor use only)

LED Color Image

■ WW : 2400K   ■ BL : Blue

□ WH : 6500K

Random blinking with Kinetic TokiLeds
NISHIGINZA (Nishi Ginza, Tokyo)
Design : Holon Environmental Planning

OUTDOOR

LS □-□□□-□□ □□□-WP

Cable Color	LED Spacing	LED Color	Effect Type
W : White	30 : 30mm	WW : 2400K	CUT : Cut-In Fade-Out
C : Clear	50 : 50mm	WH : 6500K	SCF : Slow-Fade
	80 : 80mm	BL : Blue	FCF : Fast-Fade
	100 : 100mm		FFL : Flash (WH only)
	150 : 150mm		

Catalog#	Power	Max.Length/run
LS_-30-___-WP	6.68W/m	12.0m
LS_-50-___-WP	4.00W/m	20.0m
LS_-80-___-WP	2.50W/m	26.3m
LS_-100-___-WP	2.00W/m	29.5m
LS_-150-___-WP	1.34W/m	36.1m

INDOOR

TLP-□□□-□□ □□□□

LED Spacing	LED Color	Effect Type
30 : 30mm	WW : 2400K	CUT : Cut-In Fade-Out
50 : 50mm	WH : 6500K	SCF : Slow-Fade
80 : 80mm	BL : Blue	FCF : Fast-Fade
100 : 100mm		FFL : Flash (WH only)
150 : 150mm		

※The cable color of the indoor Tapelight is clear.

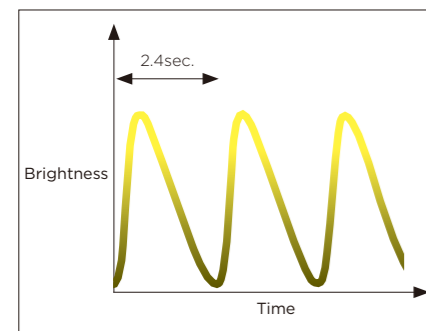| Catalog#	Power	Max.Length/run
TLP-30-___	6.68W/m	12.0m
TLP-50-___	4.00W/m	20.0m
TLP-80-___	2.50W/m	26.3m
TLP-100-___	2.00W/m	29.5m
TLP-150-___	1.34W/m	36.1m

Effect Type

Kinetic TokiLeds operate independently for a totally random effect. These LEDs can simulate the appearance of pulsing or twinkling stars. They do not require a controller, making them more cost efficient and reliable.
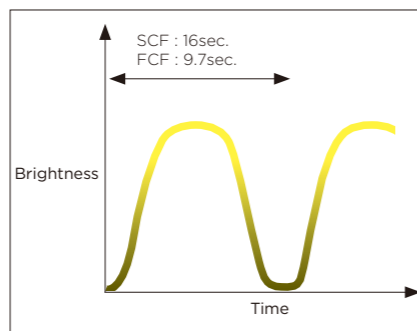
See Kinetic TokiLeds in action.
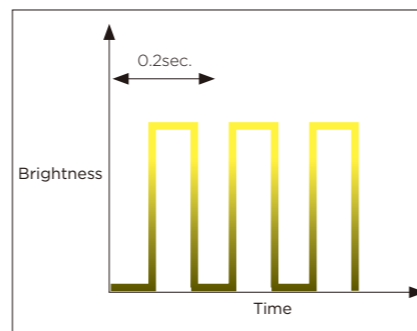

CUT : Cut-In Fade-Out

2.4sec.
Brightness
Time

The 2.4-second cycle is quick to turn on and slow to turn off, making this LED suitable for many venues.

SCF : Slow-Fade
FCF : Fast-Fade

SCF : 16sec.
FCF : 9.7sec.
Brightness
Time

The Slow-Fade LED produces a gentle comfortable effect. It slowly, seamlessly blinks every 16 seconds. Fast-Fade is every 9.7 seconds.
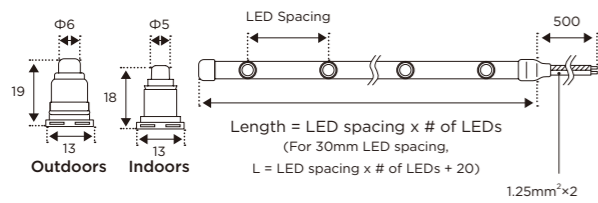
FFL : Flash (WH only)

0.2sec.
Brightness
Time

Provides sparkling eye-catching effects. The speedy and sharp ON-OF cycle is repeated every 0.2 seconds.

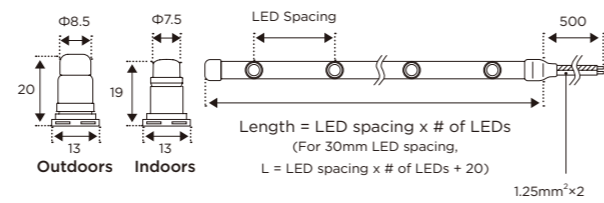Refer to Page 15 for the power supplies of Tapelight Kinetic TokiLeds.

Specifications

(mm)

Standard TokiLeds & Kinetic TokiLeds

Φ6 Φ5
19 18
13 13
Outdoors Indoors

LED Spacing
500

Length = LED spacing x # of LEDs
(For 30mm LED spacing,
L = LED spacing x # of LEDs + 20)

1.25mm^2×2

Ultra-Bright TokiLeds

Φ8.5 Φ7.5
20 19
13 13
Outdoors Indoors

LED Spacing
500

Length = LED spacing x # of LEDs
(For 30mm LED spacing,
L = LED spacing x # of LEDs + 20)

1.25mm^2×2

Options

Installation parts (For both Outdoors and Indoors)

CL-B-WM-1.25m	Adhesive tape attached mounting track (L=1.25m)

Fixed length : 1.25m ※Can be cut on job site

TP-03/20	Mounting bracket for mounting track (20pcs/set)
TP-01/20	Mounting bracket (20pcs/set)
WM-1211	Adhesive tape (Strong, L=11m, W=12mm)

※We recommend to use mounting brackets at intervals of 0.3 to 0.5m.

LS Tapelight (For Outdoors)

LS2-EP	Lead wire extension processing

Up to 10m (Processing length unit : 1m)

LS2-WTAN	Both ends lead wire attachment processing

Attach a 0.5m of lead wire to each side

LS_-ED10	End caps (10 pcs/set)

The color code C: clear or W: white is entered in the underbar
One spare end cap per run is included for each Tapelight

TLP Tapelight (For Indoors)

TL2-EP	Lead wire extension processing

Up to 10m (Processing length unit : 1m)
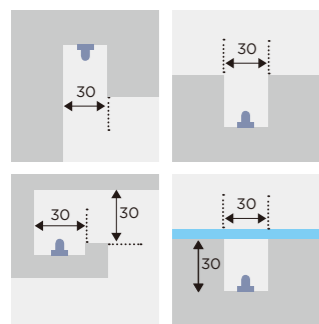
TL2-WTAN	Both ends lead wire attachment processing

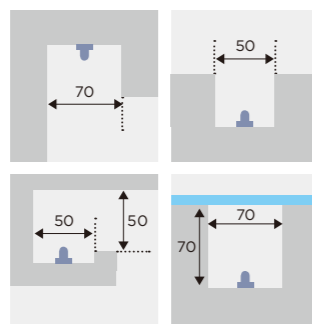Attach a 0.5m of lead wire to each side

TLP-ED10	End caps (10 pcs/set)

One spare end cap per run is included for each Tapelight

Minimum Space Requirements

Standard TokiLeds & Kinetic TokiLeds

30
30
30 30
30 30
30

### Ultra-Bright TokiLeds

50
70
50 50
70
70

(mm)

■ = Luminous Material

These dimensions are the required minimum for installation in a confined space to ensure there is not excessive heat buildup. In an actual installation, and in consideration of maintenance we recommend a wider opening while keeping these dimensions as a guideline. Conditions are different when fixtures are placed side by side.

Product Compornent

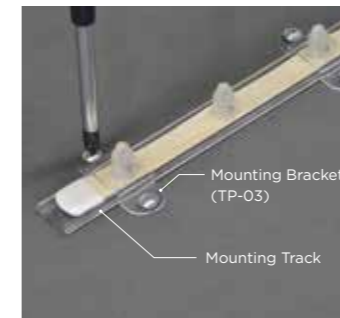※For Kinetic TokiLeds, dimmers cannot be used.

Tapelight

Power supply
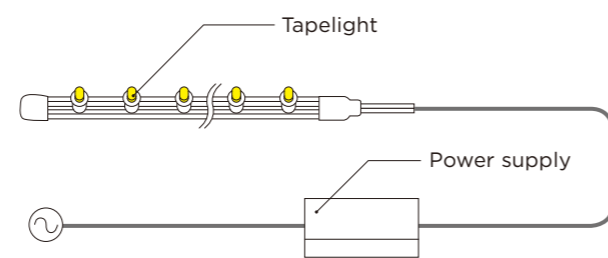
Instructions

Linear applications

The mounting track ensures linear integrity.

Recommended for use with Mounting Brackets

Attach Tapelight to the track with adhesive tape. Affix the Mounting Track and Brackets with commercially available 4mm Φ screws.

Mounting Bracket (TP-03)

Mounting Track

Use Mounting Brackets at intervals of 0.3 to 0.5m.

Installation with Adhesive tapes

Adhesive tape alone can be provided sufficient mounting strength when aligning upwards on flat places, but for permanent installation, please use Mounting Brackets together. Be sure to use Mounting Brackets when mounting to walls or ceilings.

Curved applications

Mounting Brackets (TP-01) used with Adhesive tape ensure secure mounting. The proper quantity and positioning of brackets is determined by the specifics of each application. When turning corners, a device should be used at the start of each bend.
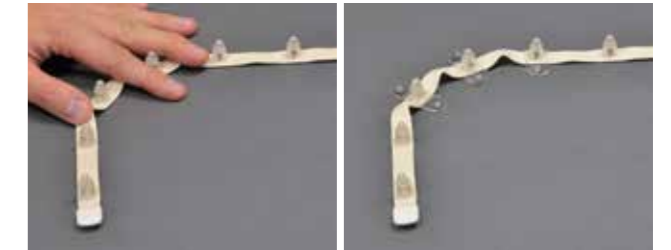
When Adhesive tape and screws cannot be used

When Adhesive tape or screws can not be used, a commercially available silicone may be used. Using Adhesive tape for temporary fixing makes installation easier and provides strength.
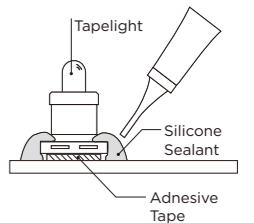
Tapelight

Silicone Sealant

Adhesive Tape

Recommended Lead Wire Size and Length Limitation

The distance from the power supply to the fixture, and the load of the fixture, will determine the proper size of secondary wire. Fixtures require an individual lead. If additional wire needs to be attached, refer to the recommendation in this chart.

Ultra-Bright TokiLeds	Standard TokiLeds & Kinetic TokiLeds
AWG14 12m	AWG14 17m

It is possible to connect the lighting fixtures and a remotely set power supply with an appropriate lead wire. Refer to the table for lead wire sizes and length limitation. The extension distance is a guideline distance for the fixture's maximum capacity. Depending on the type of power supply, lead wire, and number of LEDs, it may be possible to extend it further. Please contact us for more information.
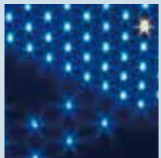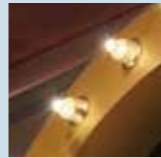
#01

HIROSHIMA ORIZURU TOWER GATE

#02

#01 HIROSHIMA ORIZURU TOWER

FLBK-110-BL, FLBK-210-BL & Kinetic TokiLeds
Owner : HIROSHIMA MAZDA
Design · Construction : NOMURA Co., Ltd.

#02 Melon de melon Akabane

FLBK-60-IW

FANTAZIC LINE

Point 01 — The premium choice for decorating trees

A variety of socket spacing and light sources can be provided. Our Kinetic TokiLeds include a micro chip for self-actuated blinking effects and do not require a controller.
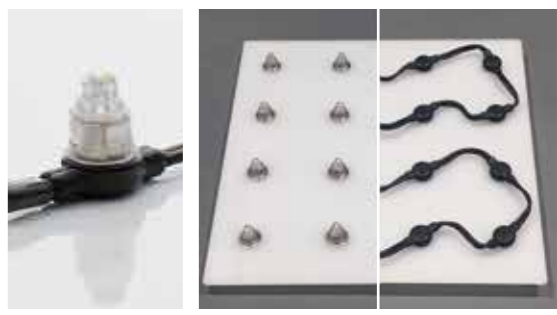
Point 02 — Eye-catching applications

Our Fantazic Line is ideal for use is signs, ceilings, walls and for highlighting building facades, and more. We offer LEDs in a variety colors to suit any application. Our Kinetic LEDs may be incorported into designs with static LEDs to provide for even more sparkling effects.
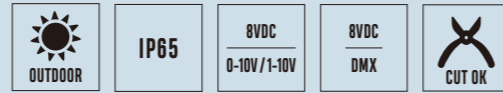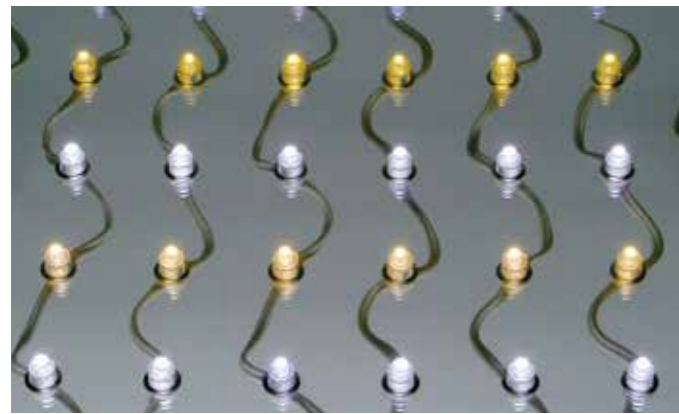
Point 03 — Ideal for signage

The Fantazic Line can easily be panel mounted and is great for signage. It creates dazzling effects for both direct and indirect applications.

FANTAZIC LINE Standard TokiLeds

| OUTDOOR | IP65 | 8VDC 0-10V/1-10V | 8VDC DMX | CUT OK |

Regular Lighting Type

Voltage = 8VDC
Wattage = 0.1W/LED
Weight = 50g/m
Main Materials = PC, PA, PVC, EP & Silicone
Spare end cap included
Cable = AWG18 : eq. 0.75mm²

FL☐☐-☐☐☐-☐☐-WP

Cord Color
BK : Black
WG : Warm Gray※

※Custom-Made product

LED Spacing
60 : 60mm
110 : 110mm
210 : 210mm
310 : 310mm

LED Color
WW : 2400K
IW : 3000K
WH : 6500K

BL : Blue
GR : Green
MG : Magenta

| Catalog#	Power	Max.LED Q'ty/run
FL_-60-_-WP	1.67W/m	319 LEDs
FL_-110-_-WP	0.91W/m	235 LEDs
FL_-210-_-WP	0.48W/m	170 LEDs
FL_-310-_-WP	0.33W/m	140 LEDs

※Equipped with a transparent silicone cap, WP-L01C.
※When installing for panel mounting, please specify the product without silicone caps. (Silicone caps must be attached after installation)
※You can also specify a product without silicone caps if it is used only indoors.

Lumen value per meter

LED Color \ LED Spacing	60mm	110mm	210mm	310mm
WW	60	32	17	11
IW	66	36	19	12
WH	88	48	25	17

(lm)

LED Color Image

|	
	WW : 2400K
	IW : 3000K
	WH : 6500K
	BL : Blue
	GR : Green
	MG : Magenta
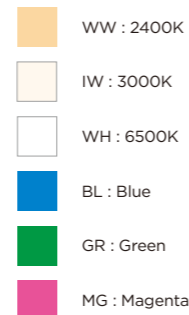
LED Colors, lm

WW : 3.6 lm/LED   CRI = 70   BL : 0.8 lm/LED

IW : 4.0 lm/LED   CRI = 70   GR : 3.3 lm/LED

WH : 5.3 lm/LED   CRI = 70   MG : 1.0 lm/LED

※Please contact us if you require an LED color other than those listed.

Refer to Page 15-16 for the power supplies and dimming of Fantazic Line Standard TokiLeds.

FANTAZIC LINE Kinetic TokiLeds

| OUTDOOR | IP65 | 8VDC | CUT OK |
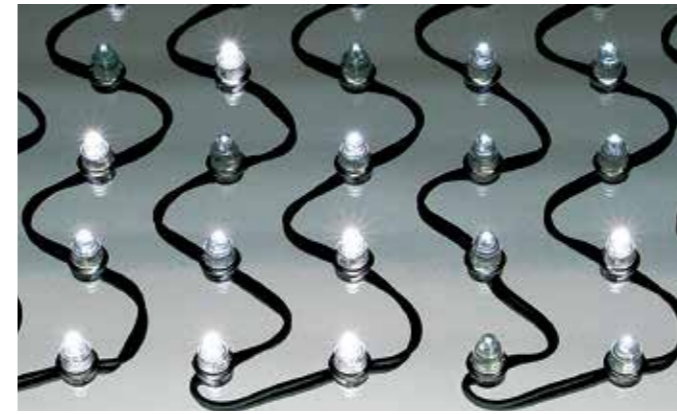
Asynchronous Flashing Type

Voltage = 8VDC
Wattage = 0.2W/LED
Weight = 50g/m
Main Materials = PC, PA, PVC, EP & Silicone
Spare end cap included
Cable = AWG18 : eq. 0.75mm²

FL☐☐-☐☐☐-☐☐ ☐☐☐-WP

Cord Color
BK : Black
WG : Warm Gray※

※Custom-Made product

LED Spacing
60 : 60mm
110 : 110mm
210 : 210mm
310 : 310mm

LED Color
WW : 2400K
WH : 6500K

BL : Blue

Effect Type
CUT : Cut-In Fade-Out
SCF : Slow-Fade
FCF : Fast-Fade
FFL : Flash (WH only)

Catalog#	Power	Max.LED Q'ty/run
FL_-60-_-__-WP	3.34W/m	319 LEDs
FL_-110-_-__-WP	1.82W/m	235 LEDs
FL_-210-_-__-WP	0.96W/m	170 LEDs
FL_-310-_-__-WP	0.65W/m	140 LEDs

※Equipped with a transparent silicone cap, WP-L01C.
※When installing for panel mounting, please specify the product without silicone caps. (Silicone caps must be attached after installation)
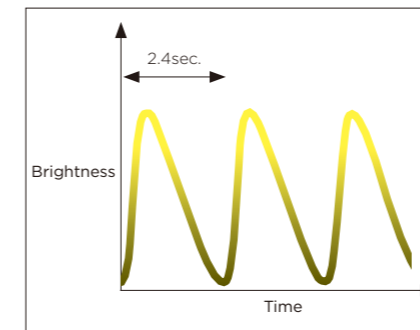※You can also specify a product without silicone caps if it is used only indoors.

Effect Type

Kinetic TokiLeds operate independently for a totally random effect. These LEDs can simulate the appearance of pulsing or twinkling stars. They do not require a controller, making them more cost efficient and reliable.
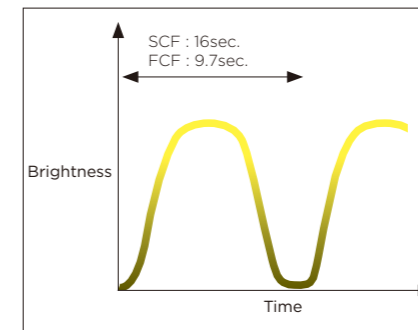
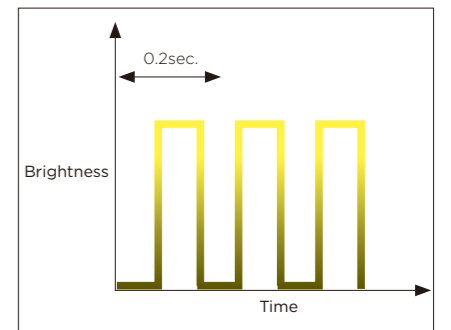See Kinetic TokiLeds in action.

CUT : Cut-In Fade-Out

2.4sec.

Brightness / Time

The 2.4-second cycle is quick to turn on and slow to turn off, making this LED suitable for many venues.

SCF : Slow-Fade
FCF : Fast-Fade

SCF : 16sec.
FCF : 9.7sec.

Brightness / Time

The Slow-Fade LED produces a gentle comfortable effect. It slowly, seamlessly blinks every 16 seconds. Fast-Fade is every 9.7 seconds.

FFL : Flash (WH only)
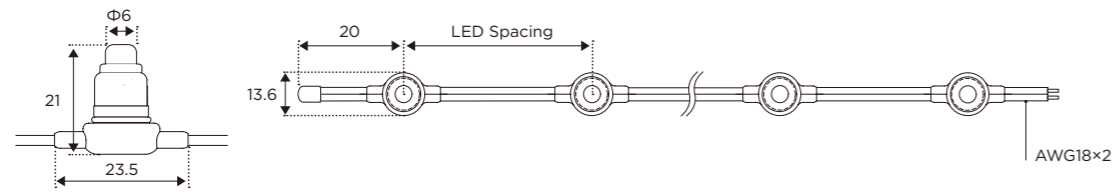
0.2sec.

Brightness / Time

Provides sparkling eye-catching effects. The speedy and sharp ON-OFF cycle is repeated every 0.2 seconds.

Refer to Page 15 for the power supplies of Fantazic Line Kinetic TokiLeds.

Specifications

(mm)

**Standard TokiLeds
& Kinetic TokiLeds**

Φ6
21
23.5
20
LED Spacing
13.6
AWG18×2

Options

SH-02/20	Socket holders (20pcs/set)

Press-fit fixed type, Made of stainless steel,
Applicable panel thickness: 0.8 to 1.6 mm, Can be used outdoors,
Recommended mounting hole diameter: Φ9.5mm
※The above numbers are recommended values.
　The fit differs depending on the material of the panel, so please
　check the actual product (we will provide a sample item).

VT-100	Binding ties (100pcs/set)

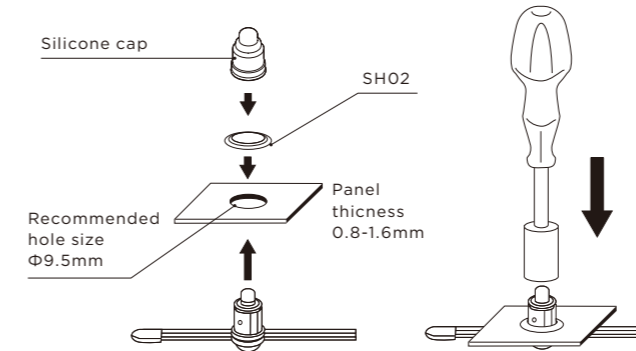| FL-TAN2	FL lead wire 2m attachment processing
FL-TAN5	FL lead wire 5m attachment processing
FL-WTAN	FL both ends lead wire attachment processing
FL-ED10	FL end caps (10pcs/set)
WP-FL01C/20	Silicone caps for panel mounting (For Standard TokiLeds, Kinetic TokiLeds) (20pcs/set)
WP-L01C/20	For replacement silicone caps (20pcs/set)

Product Compornent

※For Kinetic TokiLeds, dimmers cannot be used.

Fantazic Line

Power supplies
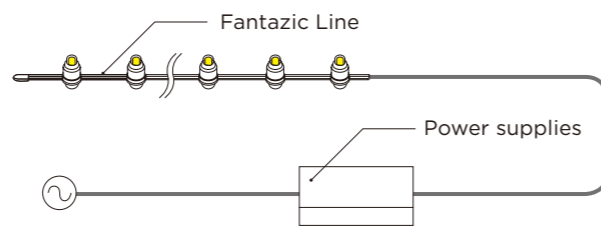
Instructions

For Panel Mounting

Silicone cap

SH02

Recommended hole size Φ9.5mm

Panel thicness 0.8-1.6mm

Fantazic Line may be panel-mounted with our panel fasteners.
Sockets are pushed through the hole in the panel from behind, and the fastener is pressed in place from above.
Commercially available a box screwdriver/nut driver (10mm across flats, for M6) for press-fitting is easy to use.

SH-02/20	Socket holders

※20pcs/set

WP-FL01C/20	Silicone caps for panel mounting

※20pcs/set

For illuminating trees

1 For tree applications, fixtures are generally installed along the treeline (fig. A). Wrapping strands around limbs is not recommended as this will adversely effect tree growth.

2 Binding ties may be used at key points to secure strands without prohibiting plant growth.

3 Fixtures suspended between branches can be adversely affected by wind and rain and lead to breakage.
Please install so fixtures run along branches and trunks.

A

B
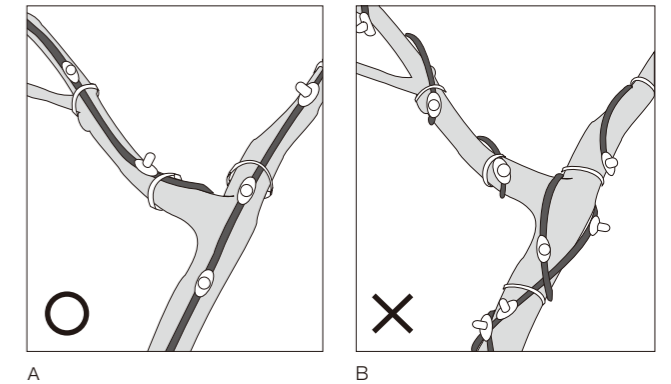
VT-100	Binding ties

※100pcs/set

Recommended Lead Wire Size and Length Limitation

The distance from the power supply to the fixture, and the load of the fixture, will determine the proper size of secondary wire. Fixtures require an individual lead. If additional wire needs to be attached, refer to the recommendation in this chart.

Standard TokiLeds	Kinetic TokiLeds
AWG14 27m	AWG14 27m

It is possible to connect the lighting fixtures and a remotely set power supply with an appropriate lead wire. Refer to the table for lead wire sizes and length limitation.
The extension distance is a guideline distance for the fixture's maximum capacity.
Depending on the type of power supply, lead wire, and number of LEDs, it may be possible to extend it further. Please contact us for more information.

8VDC LED Drivers

LDR8-40

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

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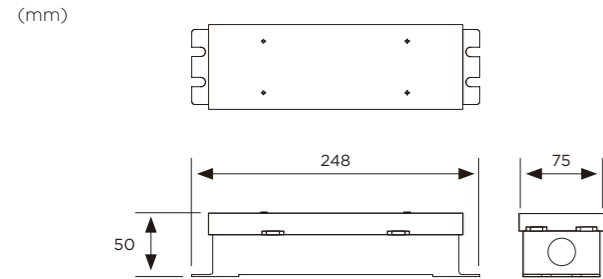
Specifications
Input Range : 100-240VAC
Frequency Range : 50/60 Hz
Output : 8VDC (Adjustable +10% / -25%)
Max. Output Current : 5.0A
Max. Output Power : 40W
Protection : Overload, Overcurrent, Short Circuit
Operating Temperature : -30°C to + 60°C

Mechanical Specifications
Dimensions : 75 x 248 x 50mm
Weight : 0.88kg
Enclosure Rating : Nema 3/IP65
Mounting : Flange Mount
Connection : Knockouts for 1/2" Conduit

LED Capacity
0.10 Watt LEDs : 400 each
0.20 Watt LEDs : 200 each
0.40 Watt LEDs : 100 each

LC-1CH-MULTI Dimming System/8VDC

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


LC-1CH-MULTI
Technical Specifications :
Max. Load : 40W @ 8VDC
Environmental Rating : Dry Location/IP20
Dimensions : W40 x L90 x H20mm
Weight : 50g
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, a splitter is required. Consult factory on details of DMX Splitters.
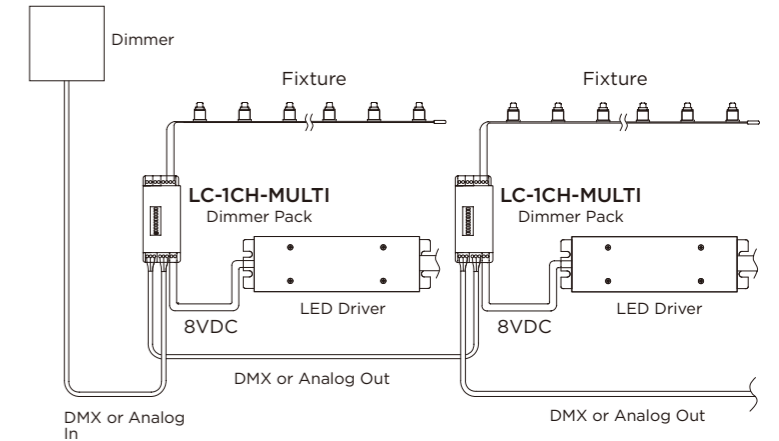
Analog Mode 0-10/1-10VDC
For operation from devices using 0-10/1-10VDC protocol, up to 10 dimmer packs may be connected in series.
For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.

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/8VDC

This proprietary dimming system provides full-range dimming of LEDs from our LED drivers. The system components connect with CAT5e cable. Up to 25 dimmer packs may be connected in series if the total length of all CAT5e cable does not exceed 50 meters from the wall dimmer to the last dimmer pack. CAT5e cables are required to units.


LC-DMRJ
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.

LC-1CH-DPJ
Each dimmer pack receives a 8VDC input from an LED driver and sends a PWM output to the fixture. Logic input and output is communicated through CAT5e cable.
Max. Load : 40W @ 8VDC
Dimensions : W89 x L103 x H36mm
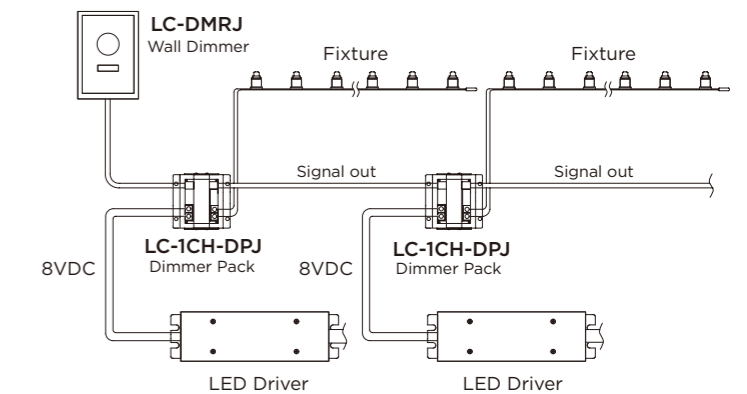
⚠ **PRECAUTIONS**

1. Read all instructions completely before beginning installation.
2. Turn off electricity before beginning installation.
3. All wiring is to be performed by a qualified electrician.
4. Installation must comply with the National Electrical Code, or all applicable codes.
5. Turn main supply to LED Driver on only after all connections have been made and tested.
6. Use only LED Drivers provided by Tokistar with the system.