

WallGuide[™] Life Safety



Design Features

- Profile arrives in sections up to 3 meters in length.
- Illuminated by one Light Tape[®] Electroluminescent lamp.
- Only one electrical connection required at beginning of profile with no termination connection at other end.
- Aluminum profile length +/-3mm.
- Ex tremly energy efficient: 1/2 a watt per meter
- Screwed into wall and then hung using rear mount channel.
- End caps as well as corner caps provided for transitions.

How to Order

- Part Number: SG-WG-HB
- For a basic quote, we need the total length of profile needed per entrance or stairway for us to estimate materials and power.
- We also offer a service where we will go through architectural files to determine layout and what is required for the installation.

Rapid Installation

- Always use Heat Shrink Tubing Thin Wall, 2:1 Shrink Ratio to seal connections between profile lead and your main wiring.
- To fix profile on surface, we recommend using 1/4 x 2 1/4 screw with nylon anchor every 10cms / 3.93 inches.

For step by step installation process, please please refer to our installation manual guide.





SG-WG-HB: High Bright LED shining down

Our WallGuide[™] system is designed to be mounted on the wall to provide navigation illumination for entrance ways and stairs. The system has the ability for direct view and also immersive illumination.

The SG[™] WG HB has one row of high bright LEDs in the bottom slot to illuminate entrance way floor to meet local safety codes. Ideal for public or government facilities that require high brightness in entrance and hallways as for Life Safety compliance.

The SG[™] WallGuide[™] design is recommended for mounting on walls in sections and then feeding LED lamps in a channel specifically designed to house continuous LED strips for navigation.

System and Parts



Available Colors



- Designed to illuminate walkways and minimize glare
- 5 to 10 watts per meter depending on LED choice

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- Insert in top location provides additional navigation guidance
- •

SG-WG-HB Dimensions







WALL GUIDE



www.lighttape.com





The WallGuide(tm) Part description



Mounting & Wiring Accesories

End caps

The end caps made of PLA plastic are use to finish the end of a segment. The end caps also hold the connection point on either side. Caps are open on the back, making wiring and connection very easy



90° angle cap

90 degree angle caps are used as a connection point and to join two segments in a 90 degree inner angle.



Join cap

Join caps are used to join two segments of the aluminum profiles to hide the edge cuts. Join caps allow light and insert to pass through both segments.









Once length of run is set, mark and drill holes at 30cm/11,81 inch above floor level with a minimum distance of 1 mt / 3,28ft betwwen them, covering the entire length of the run.

E.	
Wall	
Floor level	

Take the aluminum profile and push it against the wall aligning the screws with the mounting cavity as shown.







While pushing the profile, pull it down so it will rest on mounting cavity as shown. Push it against you to make sure it is properly resting on screws.

4. Wall 2,54cm / 1 inch Both sides Tor level

Slide the clear insert on its cavity making sure the longer lip is facing upwards as shown. Cover the entire length of run leaving an additional extra inch out on both sides.







Slide the Light Tape® on its cavity. Cover the entire length of run leaving an additional extra inch out on both sides.



Repeat process for downlight. Cover the entire length of run leaving an additional extra inch out on both sides. Downlight does not use clear protection insert







Place the end cap opossite to connection point by sliding it against the profile. Secure with provided bristol screw.



Repeat process on connection point by sliding it end cap against the profile. Be careful with the wires and connector before securing it with provided bristol screw.







Once system is checked and working, finish the mounting drilling the front screws at least every 2mt / 6,56ft from each other.

10.



If using angles, repeat process from steps 1 - 9. Placing join caps and angle caps is further explained on this guide.





Wiring options for two segments with 90° angle

Light Tape® Top Connector ------







LIGHTING LED OPTIONS



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BLAZE[™] COLORS LED Light Tape



Light**Tape**

		DI-12V-BLC	DI-24V-BLC	
Voltage		12VDC	24VDC	
Wattage		2.93/ft	2.93/ft	
Cut Points		1 in.	2 in.	
	Red	29/ft	89/ft	
Lumens	Green	187/ft	192/ft	
	Blue	43/ft	45/ft	
Max. Run ¹		20 ft.	40 ft.	
LED	Chips	36/ft	36/ft	
Col	ors	Red, Green, Blue		
Dimn	nable	Yes		
Dimer	nsions	0.32 x 0.1 in. (W x H)		
Environment ²		Indoor / Damp Location		
Certifi	cation	UL Listed 2108		
Warranty		12-Year Warranty		



Example: DI-12V-BLCGR-016 = Diode LED, 12 Volt, BLAZE™ COLORS, Green, 16.4 foot spool.



SPECIFICATIONS

- LED Chip Type: 2835 GuangMu Chip
- LED Chip Beam Angle: 120°
- Mounting³: 3M[™] 55236 Adhesive Backing
- Connections⁴: 2.5 inch hard-wire lead: 20/2 AWG
- Ambient Temp⁵:-4 ~ 122°F (-20 ~ 50°C)
- Operating Temp⁶:-4 ~ 176°F (-20 ~ 80°C)

COMPLIANCE & REGULATORY APPROVALS

Safety

- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. File # E469769.
- UL Listed Field Cuttable.
- UL Recognized Component Sign Accessories. Available in UL Sign Components Manual (SAMS Manual). File # E469770.
- CE & EMC Compliant: Verification No. GZEM141200683705V
- Approved for storage areas of clothes closets per NEC 410.16.A.3 and 410.16.C.5

Environmental

• RoHS Compliant: Verification No. CANEC1610091501

Performance

- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

ADDITIONAL ACCESSORIES

SPECIFICATION SHEET

Accessories listed below fully support our LED Light Tape product line.

TERMINAL BLOCK CONNECTOR Tape Light Connector

CLICKTIGHT[®] Tape Light Connectors

TAPEGUARD® LED Light Cover

CHROMAPATH®

Builder Channels



CHROMAPATH[®] Bundle Channels

1. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.

- 2. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur. NEC definition of damp location: Locations protected from weather and not subject to saturation with water or other liquids but subject to moderate degrees of moisture. Examples of such locations include partially protected locations under canopies, marquees, roofed open porches, and like locations, and interior locations subject to moderate degrees of moisture, such as some basements, some barns, and some cold-storage warehouses.
- 3. Ideal tape application temperature range is 70°F to 100°F (21°C to38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.
- 4. Wire leads and accessories are not rated for in-wall installation unless otherwise noted. Attached wire leads and connections are field-cuttable.
- 5. Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
- 6. Operating temperature is measured according to the minimum and maximum ambient temperature environment.



SPECIFICATION SHEET

MECHANICAL DIAGRAM

BLAZE[™] COLORS 12V

BLAZE[™] COLORS 24V





LED DRIVERS (Required)

SPECIFICATION SHEET

The following Listed LED Drivers are recommended to meet NEC code when installed according to specifications.

SWITCHEX® DRIVER + DIMMER SWITCH

SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.



LO-PRO® JUNCTION BOX & DRIVER COMBO - 12V CONSTANT VOLTAGE LED DRIVER

Use Constant Voltage Drivers to power your low voltage tape light. Compatible with Standard 120VAC On/Off Switches, REIGN® 12-24V Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.



LO-PRO[®] JUNCTION BOX & DRIVER COMBO - 12V COMMERCIAL GRADE 0-10V LED DIMMABLE DRIVER Compatible with 0-10V controls and dimmer systems.





LED DRIVERS (Required)

SPECIFICATION SHEET

The following Listed LED Drivers are recommended to meet NEC code when installed according to specifications.

OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER

OMNIDRIVE 2 features a zero minimum load and 100-5% dimming range. Compatible with Forward Phase and Reverse Phase Dimmers.



SKU	L – LENGTH	W – WIDTH	H – HEIGHT
DI-OD2-12V24W	13.75 in.	3.00 in.	1.60 in.
DI-OD2-12V60W	13.75 in.	3.00 in.	1.60 in.
DI-OD2-12V120W	15.00 in.	3.10 in.	2.40 in.
DI-OD2-12V200W	16.10 in.	3.40 in.	2.40 in.



心LUTRON。Hi-lume 1% LED DIMMABLE DRIVER

Hi-lume 1% LED driver has a minimum load of 5W and Dims from 100-1%.



LUTRON. Hi-lume Premier 0.1% LED DIMMABLE DRIVER

Hi-Lume Premier 0.1% LED driver has a minimum load of 5W and Dims from 100-0.1%.







LED DRIVERS (Required)

SPECIFICATION SHEET

The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications.

SWITCHEX® DRIVER + DIMMER SWITCH

SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.



LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V CONSTANT VOLTAGE LED DRIVER

Use Constant Voltage Drivers to power your lighting system. Compatible with Standard 120VAC On/Off Switches, REIGN® Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.



LO-PRO[®] JUNCTION BOX & DRIVER COMBO - 24V COMMERCIAL GRADE 0-10V LED DIMMABLE DRIVER Compatible with 0-10V controls and dimming systems.





LED DRIVERS CONT. (Required)

SPECIFICATION SHEET

The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications.

OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER

OMNIDRIVE 2 features a zero minimum load and 100-5% dimming range. Compatible with Forward Phase and Reverse Phase Dimmers.





LUTRON。Hi-lume 1% LED DIMMABLE DRIVER

Hi-lume 1% LED Driver has a minimum load of 5W and dims from 100-1%.



LUTRON. Hi-lume Premier 0.1% LED DIMMABLE DRIVER

Hi-Lume Premier 0.1% LED Driver has a minimum load of 5W and dims from 100-0.1%.







LED DRIVERS (Required)

SPECIFICATION SHEET

The following Listed LED Drivers are recommended to meet NEC code when installed according to specifications.

VLM SERIES CONSTANT VOLTAGE DRIVER

Use Constant Voltage Drivers to power your low voltage tape light. Compatible with Standard 120VAC On/Off Switches, REIGN® 12-24V Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.



SKU	L – LENGTH	W – WIDTH	H – HEIGHT
VLM60W-24	5.1 in.	.75 in.	.77 in.
VLM100W-24	5.38 in.	1 in.	.77 in.





ADDITIONAL INFORMATION

SPECIFICATION SHEET

• LOW VOLTAGE LED TAPE LIGHT Installation Guide

SAFETY / WARNINGS / DISCLOSURES

- 1. Install in accordance with national and local electrical code regulations.
- 2. This product is intended to be installed and serviced by a qualified, licensed electrician.
- 3. Only install with a Class 2 DC Constant Voltage LED driver.
- 4. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
- 5. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- 6. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
- 7. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
- 8. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
- 9. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
- 10. Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
- 11. Do not modify product beyond instructions or warranty will be void.
- 12. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- 13. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- 14. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.





INSTALLATION GUIDE

SAFETY & WARNINGS

- 1. Install in accordance with national and local electrical code regulations.
- 2. This product is intended to be installed and serviced by a qualified, licensed electrician.
- 3. DO NOT connect directly to high voltage power. Install with a compatible Class 2 constant voltage LED driver (power supply).
- 4. This product is rated for indoor installation and is not protected against moisture.
- Install appropriately rated wire between driver, decoder, and fixture. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, etc.) Inadequate wire installation may cause fire.
- 6. Do not modify or disassemble product beyond instructions or warranty will be void.

MAXIMUM DAISY-CHAIN DMX DECODERS

A maximum of 10x DMX Decoders may be connected together via RJ45 DMX Connection Ports. DMX signal may be extended further by installing a DMX 8-Way Splitter (DI-1804) after the 10th DMX Decoder.

QUICK SPECS / MODELS

	Input	Output	Max Load
DI-1810 (also DI-1918)	12 - 24VDC	12 - 24VDC	4CH x 5A 4CH x 96W (12V) 4CH x 192W (24V)

INSTALLATION





CONNECT DECODER TO MASTER DMX CONTROLLER.





OPERATION

DMX START CHANNEL DISPLAY



Adjust the following settings with the DMX Start Channel Display



(Fig. 1.):

a. DMX Address

b. Output Channels (professional use only) c. PWM Frequency (professional use only)

SETTING THE DMX ADDRESS

Use the 3 buttons of the DMX start channel to adjust the values of the DMX address. The decoder will control up to 512 channels.

- a. To set the DMX address, press and hold 'button 1' for 2 seconds until numbers on display flash.
- b. Select an address based on the functionality of the Master DMX Controller (see controller installation guide). Once an address is selected, the remaining 3 channels will be utilized digitally. For example, if the decoder is addressed to 001 on the display then CH1-001, CH2-002, CH3-003, CH4-004.
- c. Once display stops flashing, DMX address is set.

OPERATION (PROFESSIONAL USE ONLY)

Diode LED strongly recommends only professional DMX installers utilize the following settings. All standard DMX applications specified by Diode LED do not require these settings to be adjusted.

SETTING DMX CHANNELS

The DMX channels can be adjusted, which allows the user to conserve DMX addresses that may be wasted when programming a large DMX universe.

The factory default is 4cH: 4 channels (address 001 - 004) as highlighted in the chart below. Charts have also been provided for 1cH, 2cH, and 3cH settings.

4cH (001 - 004)		1cH (001 Only)		
Channel Address		Channel	Address	
CH1	001	CH1	001	
CH2	002	CH2	001	
CH3	003	CH3	001	
CH4	004	CH4	001	

2cH (001 - 002 Only)

Channel	Address
CH1	001
CH2	002
CH3	001
CH4	002

3cH (001 - 003 Only)				
Channel Address				
CH1	001			
CH2	002			
CH3	003			
CH4	001			





To change channel setting:

- a. Press and hold 'button 2 and 3' simultaneously for 2 seconds until 'cH' flashes on display (Fig. 2).
- b. Press 'button 1' to choose 1, 2, 3, or 4 channel outputs (Fig. 3).
- c. Press and hold any button for >2 seconds to set channel output.

SETTING PWM FREQUENCY & DIMMING TYPE

The PWM frequency & dimming type can be adjusted for special applications.

RGB & RGBW SETTINGS

RGB & RGBW installations will only operate correctly with consistent color output when programmed to P1 (1500Hz PWM OUTPUT) and c2 (LINEAR DIMMING).

PWM & DIM (P_c)

PWM Output (P)	Dimming Output (c)	
1 = 1500Hz	1 = Logarithmic Dimming	
2 = 200 Hz	2 = Linear Dimming	

Fig. 4



RGB/RGBW REQUIRED SETTING

To change PWM or DIM:

a. Press and hold 'button 1 and 3' simultaneously for 2 seconds until 'P c' flashes on display (Fig. 4).

b. Press 'button 1' to choose PWM output type.

c. Press 'button 3' to choose Dimming type.

d. Once display stops flashing, PWM & DIM is set.

SYSTEM DIAGRAM

The following diagram is provided as an example system design. CAT5 (RJ45 connections) data cables are the most cost-effective solution for transmitting DMX-512 signals. XLR-3 cables may also be installed but require an additional adapter for connecting to DMX decoders.



MAXIMUM DAISY-CHAIN DMX DECODERS

A maximum of 10x DMX Decoders may be connected together via RJ45 DMX Connection Ports. DMX signal may be extended further by installing a DMX 8-Way Splitter (DI-1804) after the 10th DMX Decoder.

* Driver may not require a fault ground connection. Refer to driver specifications for additional information.

** Install a compatible Class 2 constant voltage driver. It is recommended to load the driver no more than 80% its labeled rating for maximum longevity.

‡ Refer to driver specifications for a compatible junction box.

‡‡ See fixture specifications for maximum series run limits.

TROUBLESHOOTING

Symptom	Common Cause		
Fixture responding incorrectly and/or flickering	 Incorrect wiring. Reversing Data + and Data - will cause lights to flicker. 		
	 Incorrect voltage pairing of driver and fixture. (12V & 12V, or 24V and 24V) 		
	• Ensure compatible constant voltage driver is installed.		
	Check connections of additIonal components.		
Cannot change DMX address	 Hold in button '0-5' for 3 seconds until display flashes continuously, then set address. 		

VOLTAGE DROP CHARTS

For best performance and lumen output, ensure proper wire gauge is installed to compensate for voltage drop of low voltage circuits.

Wire Gauge	10 W .83 A	20 W 1.7 A	30 W 2.5 A	40 W 3.3 A	50 W 2.1 A	60 W 4.2 A	
18 AWG	34 ft.	17 ft.	11 ft.	8 ft.	6 ft.	5 ft.	
16 AWG	54 ft.	27 ft.	18 ft.	13 ft.	10 ft.	9 ft.	
14	86 ft.	43 ft.	29 ft.	21 ft.	17 ft.	1/ 5	6
12 AWG	1	00.10				22 ft.	
1	199 ft.	99 ft.	66 ft.	49 ft.	39 ft.	35.	

Example: 12V Voltage Drop & Wire Length Distance Chart

etermine load size. Let's assume load 55 W. Round up to nearest load.

etermine distance from driver to load. et's assume the distance is 20 ft.



It's recommended to install 12 AWG to eliminate excess voltage drop.

12V Voltage Drop & Wire Length Distance Chart

Wire Gauge	10 W .83 A	20 W 1.7 A	30 W 2.5 A	40 W 3.3 A	50 W 2.1 A	60 W 4.2 A
18 AWG	34 ft.	17 ft.	11 ft.	8 ft.	6 ft.	5 ft.
16 AWG	54 ft.	27 ft.	18 ft.	13 ft.	10 ft.	9 ft.
14 AWG	86 ft.	43 ft.	29 ft.	21 ft.	17 ft.	14 ft.
12 AWG	134 ft.	68 ft.	45 ft.	34 ft.	27 ft.	22 ft.
10 AWG	199 ft.	99 ft.	66 ft.	49 ft.	39 ft.	33 ft.

24V Voltage Drop & Wire Length Distance Chart

Wire Gauge	10 W .42 A	20 W .83 A	30 W 1.3 A	40 W 1.7 A	50 W 2.1 A	60 W 2.5 A	70 W 2.9 A	80 W 3.3 A	100 W 4. 2 A
18 AWG	134 ft.	68 ft.	45 ft.	33 ft.	27 ft.	22 ft.	19 ft.	17 ft.	14 ft.
16 AWG	215 ft.	109 ft.	72 ft.	54 ft.	43 ft.	36 ft.	31 ft.	27 ft.	22 ft.
14 AWG	345 ft.	174 ft.	115 ft.	86 ft.	69 ft.	57 ft.	49 ft.	43 ft.	36 ft.
12 AWG	539 ft.	272 ft.	181 ft.	135 ft.	108 ft.	90 ft.	77 ft.	68 ft.	56 ft.
10 AWG	784 ft.	397 ft.	263 ft.	197 ft.	158 ft.	131 ft.	112 ft.	98 ft.	82 ft.



LM-79 Test Report

Relevant Standards

IES LM-79-2008 IES TM-30-2015 CIE 13.3-1995

Product SKU

BLAZE[™] 100 LED Tape Light - DI-12V-BLBSC1-30-***

Test Conditions

Test Temperature: 26.5 °C Luminaire Sample Length: 12 in. Power Supply: Agilent E3634A DC Power Supply Voltage: 12 VDC Current: 0.114 A Power Consumption: 1.368 W

Test Date

7/3/2018

Prepared By

Rachel Backlund

Rachel Backlund

Approved By

Ohn M. Engly

Olivia Tanguileg, Electrical Engineer

The results contained in this report pertain only to the tested sample. Photometric & Colorimetry data measured in accordance to IES LM-79-2008 standards, at the Elemental LED, Inc. Innovation Lab.

Integrating Sphere Test

SUMMARY OF RESULTS															
Metric	Test		Reference	N	otes			Me	tric	Test	Reference	e	Notes		
R _f	91		100	IES	IES TM-30-15 Fidelity Index		CC	Г	3032	3031		Correlated Color Temperature			
R _g	99		100	IES	IES TM-30-15 Gamut Index D _{uv} 0.001		0.0015	0.0000		Distance from the blackbody locus		ocus			
R _a (CRI)	92		100	CIE Test Color Method General Index		x		0.4369	0.4347		CIE 1931 chromaticity coordinate		ate		
R ₉	64		100	CI	CIE Test Color Method Sample Nine Score		У		0.4079	0.4033		CIE 1931 chromaticity coordina		ate	
LER	287		164	Luminous Efficacy of Radiation		u		0.2489	0.2495		CIE 1960 chromaticity coordinate		ate		
Lumens	116		1852	Lu	minous Flux			v		0.3486	0.3472	72 CIE 1960 chromaticity coordi		maticity coordination	ate
R _{f,skin}	95		100	Av	erage of CES15	5 and CES18 (sk	in)	u'		0.2489	0.2495		CIE 1976 chro	maticity coordination	ate
						v'		0.5229	0.5207		CIE 1976 chro	maticity coordination	ate		
COLOR RENDERING INDEX															
	R 1	R 2	R 3	R 4	R 5	R 6	R 7	R 8	R 9	R10	R11	R12	R13	R14	
g	92.1	94.3	95.0	92.7	91.1	92.1	94.5	85.1	63.9	85.4	92.4	76.4	92.4	96.4	

SOURCE PROPERTI

SOURCE CHROMATICITY COMPARISON 0.9 × Test Source 100% 0.8 0.7 80% 0.6 **Relative Power** 0.5 60% 0.4 × 40% 0.3 0.2 20% 0.1 0.0 0% 0.3 0.8 0.0 0.1 0.2 0.4 0.5 0.6 0.7



This chart plots the chromaticity of the test and reference sources in the CIE 1931 chromaticity

This chart displays the spectral power distributions for the test and reference source. Each SPD has been normalized so that the maximum values is 100%.









This plot shows the average chromaticity shift for the samples within each of 16 hue bins. The values are normalized so that the reference is a circle.

COLOR SAMPLE COMPARISON (APPROXIMATION)

CES 1	CES 2	CES 3	CES 4	CES 5	CES 6	CES 7	CES 8
Туре С	Туре С	Туре А	Туре А	Туре D	Туре С	Туре Е	Туре D
CES 9	CES 10	CES 11	CES 12	CES 13	CES 14	CES 15	CES 16
Туре F	Туре G	Туре С	Туре А	Type F	Туре Е	Туре В	Туре С
CES 17	CES 18	CES 19	CES 20	CES 21	CES 22	CES 23	CES 24
Туре С	Туре В	Туре Е	Туре F	Туре D	Туре D		Туре Е
CES 25	CES 26	CES 27	CES 28	CES 29	CES 30	CES 31	CES 32
Туре А	Туре С	Туре А	Type G	Туре С	Туре А	Туре D	Туре С
CES 33	CES 34	CES 35	CES 36	CES 37	CES 38	CES 39	CES 40
	Туре G	Type G	Туре А	Туре А	Туре А	Туре F	Type F
CES 41	CES 42	CES 43	CES 44	CES 45	CES 46	CES 47	CES 48
	Туре F	Туре С	Type F	Туре G	Туре Е	Туре С	Туре D
CES 49	CES 50	CES 51	CES 52	CES 53	CES 54	CES 55	CES 56
Туре D	Туре F	Type F	Type F	Туре Е	Туре F	Туре G	Туре G
CES 57	CES 58	CES 59	CES 60	CES 61	CES 62	CES 63	CES 64
Туре С	Type D	Туре Е		Туре F	Туре С	Туре F	Туре Е
CES 65	CES 66	CES 67	CES 68	CES 69	CES 70	CES 71	CES 72
Туре F	Туре Е	Type E	Type F	Туре F	Туре F	Туре F	Туре F
CES 73	CES 74	CES 75	CES 76	CES 77	CES 78	CES 79	CES 80
Type F	Туре С	Type F	Type F	Туре А	Туре F	Туре С	Туре G
CES 81	CES 82	CES 83	CES 84	CES 85	CES 86	CES 87	CES 88
Туре А	Туре С	Туре С	Type F	Туре А	Туре С	Туре F	Туре F
CES 89	CES 90	CES 91	CES 92	CES 93	CES 94	CES 95	CES 96
Туре А	Туре Е	Туре А	Туре А	Туре D	Туре С	Туре А	Туре А
CES 97	CES 98	CES 99					
Type F	Туре А	Type E					

NOTE: CES stands for "Color Evaluation Sample", these 99 samples are used in place of the 16 R values. The colors shown are approximate and depend on proper monitor calibration. Some colors may be outside of the gamut of the monitor, and will not be displayed accurately. For each sample, the color on the left represents the reference source, and the color on the right represents the test source.



COLOR RENDITION BY HUE



Hue Angle j 0.0°-22.5° 1 2 22.5° - 45.0° 3 45.0° - 67.5° 67.5° - 90.0° 4 5 90.0°-112.5° 112.5°-135.0° 6 7 135.0°-157.5° 157.5°-180.0° 8 9 180.0°-202.5° 10 202.5°-225.0° 11 225.0°-247.5° 12 247.5°-270.0° 13 270.0°-292.5° 14 292.5°-315.0° 15 315.0°-337.5° 16 337.5°-360.0°

This chart displays the average Fidelity Index for all samples within the hue bin. The number of samples per bin, which can vary based on the CCT used for the calculation, is shown at the top. The color of the bar is based on the average chromaticity under the 5000 K reference illuminant; the colors may not display accurately depending on the calibration of the monitor, and should be used for orientation only



m = Samples per Angle Bin

This chart displays the change in chroma for the average sample within each hue bin. The number of samples per bin, which can vary based on the CCT used for the calculation, is shown at the top. The color of the bar is based on the average chromaticity under the 5000 K reference illuminant; the colors may not display accurately depending on the calibration of the monitor, and should be used for orientation only.

COLOR FIDELITY BY



This chart displays the Fidelity Index for each of the 99 CES. The CES are arranged by their hue angle under the 5000 K reference source, which was also used to determine the color of each bar. The colors are approximate and depend on proper monitor calibration. Some colors may be outside of the gamut of the monitor, and will not be displayed accurately.

Goniophotometer Test

SUMMARY OF RESULTS

Luminaire: BLAZE[™] 100 LED Tape Light SKU: DI-12V-BLBSC1-30-*** Luminous Flux: 119 Lumens Power Consumption: 1.368 Watts Efficacy: 87.0 Lumens/Watt Spacing Criterion (0-180): 1.28 Spacing Criterion (90-270): 1.26

Graphs below are for reference, full IES files are available via request

DISTRIBUTION CHARTS AND TABLES

Zonal Lumen Data

Zone	Lumens	%Luminaire
0-20	15.27	12.80
0-30	32.45	27.20
0-40	53.24	44.70
0-60	94.38	79.20
0-80	117.09	98.30
0-90	119.14	100.00
20-40	37.97	31.90
20-50	59.60	50.00
40-70	55.82	46.90
60-80	22.71	19.10
70-80	8.03	6.70
80-90	2.04	1.70
90-180	0.00	0.00
0-180	119.14	100.00



	Illuminance at a	Distance	
	Center Beam fc	Beam Wi	dth
150	18.6 fc	4.6 ft	4.4 ft
2.08	4.65 fc	9.2 ft	8.9 ft
3.0IC	2.07 fc	13.8 ft	13.3 ft
4.5R	1.16 fc	18.4 ft	17.8 ft
5.0R	0.74 fc	23.0 ft	22.2 ft
7.5H	0.52 fc	27.7 ft	26.7 ft
9.0H	Vert. Spread: 113.9°		

Horiz. Spread: 112.0°







Electro-Luminx Lighting Corporation

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