

NEON BLAZE™ Diffused LED Lighting

Specification Sheet

NEON BLAZE[™] 24V

Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options. Available in static white and colors, and suitable for wet locations (IP65).

Date

Project Notes

24 VDC

()^ IP65



• Fully diffused, dotless light

- .
- Top-bending and side-bending options with multiple output levels IP65 for wet locations and UV stabilized for outdoor use ٠
- Ideal for coves and other architectural details •

Order spools, and components for field assembly

. 5 Year limited warranty

ORDERING CODES

OPTIONAL ORDERING CODES

Add Length, Assembly Preferences, Finish, Mounting, Driver, and Delivery

10

· · · · · · · · · · · · · · · · · · ·												
	Voltage	Bend Style	Model	CC	т	Length	Channels	Finish	Mounting	Dri	ver	Delivery
DI												
	24V (24V Volt)	SE (Side Emitting) TE (Top Emitting)	NBL1 NBL2 NBL4	27 (2700K) 30 (3000K) 35 (3500K) 42 (4200K) 63 (6300K)	GL (Amber) BL (Blue) GR (Green) PK (Pink) RD (Red)	016 (16 feet) 32 (32 feet) 65 (65 feet)	MTCH (Neon Top Bend) SPN (Neon Top Spine) MTCH (Neon Side Bend) SPN (Neon Side Spine)	AL (Aluminum)	TUC (Top U-Clip) BUC (Bottom U-Clip)	ELV (Electronic) 010 (0-10V) MAG (MLV) LUT (LUTron)	O/O (On / Off) SWX (Switchex) PoE (Power over Ethernet)	Field Assembly Factory + Field (Hybrid)

NEON BLAZE[™] - SPECIFICATION TABLE

Models	24V-SE-NBL1	24V-SE-NBL2	24V-SE-NBL4	24V-TE-NBL1	24V-TE-NBL2	24V-TE-NBL4
Voltage	24VDC	24VDC	24VDC	24VDC	24VDC	24VDC
Wattage	1.22W/ft.	2.44W/ft.	4.4W/ft.	1.22W/ft.	2.44W/ft.	4.4W/ft.
2700K	62 Lm/ft.	134 Lm/ft.	208 Lm/ft.	86 Lm/ft.	173 Lm/ft.	248 Lm/ft.
3000K	65 Lm/ft.	146 Lm/ft.	198 Lm/ft.	102 Lm/ft.	219 Lm/ft.	317 Lm/ft.
3500K	60 Lm/ft.	120 Lm/ft.	195 Lm/ft.	89 Lm/ft.	155 Lm/ft.	228 Lm/ft.
4200K	-	120 Lm/ft.	-	-	-	-
Lumens 6300K	59 Lm/ft.	116 Lm/ft.	173 Lm/ft.	88 Lm/ft.	145 Lm/ft.	225 Lm/ft.
Amber	31 Lm/ft.	61 Lm/ft.	84 Lm/ft.	70 Lm/ft.	157 Lm/ft.	184 Lm/ft.
Blue	6 Lm/ft.	12 Lm/ft.	18 Lm/ft.	18 Lm/ft.	30 Lm/ft.	37 Lm/ft.
Green	30 Lm/ft.	-	78 Lm/ft.	88 Lm/ft.	148 Lm/ft.	151 Lm/ft.
Pink	17 Lm/ft.	37 Lm/ft.	53 Lm/ft.	39 Lm/ft.	93 Lm/ft.	110 Lm/ft.
Red	11 Lm/ft.	21 Lm/ft.	34 Lm/ft.	31 Lm/ft.	61 Lm/ft.	64 Lm/ft.
Cut Points	2 in.					
Max Run (ft.)	65 ft.	32 ft.	16 ft.	65 ft.	32 ft.	16 ft.
CRI	80+	80+	80+	80+	80+	80+
Dimensions	0.37 × 0.75 in. (W x H)	0.37 × 0.75 in. (W x H)	0.37 × 0.75 in. (W x H)	0.65 × 0.59 in. (W x H)	0.65 × 0.59 in. (W x H)	0.65 × 0.59 in. (W x H)
TM-21 (LM-80)	>50,000 hours					
Environment	Outdoor / Wet Location (IP65)					
Certification	UL Listed 2108					
Warranty	5 Year					



Specification Sheet

NEON	BLAZE™	24V
------	--------	-----

Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options. Available in static white and colors, and suitable for wet locations (IP65).

Date Project Notes			
)	24	AIDMAJAHOMECS
	IP65	VDC	CLOSET RATED

RECOMMENDED 24V DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
OMNIDRIVE® X Dimma Versatile driver for most high	able Driver -performance dimming on ELV, TRIA	C, and 0-10V	1	1	https://www.diodele	d.com/custom/download/j		e/omnidrive-x-s	er Specification She pecification-sheet.po tains
systems.								ional Models ional Features	Derating Curves System Diagrams
DI-ODX-24V30W-J	120-277V	24V	30W	No Minimum Load	Yes	Yes	6.5 in.	3.7 in.	1.57 in.
DI-ODX-24V60W-J	120-277V	24V	60W	No Minimum Load	Yes	Yes	7.4 in.	3.7 in.	1.57 in.
DI-ODX-24V96W-J	120-277V	24V	96W	No Minimum Load	Yes	Yes	8.66 in.	3.7 in.	1.57 in.
DI-ODX-24V120W-J	120-277V	24V	120W	No Minimum Load	No	Yes	8.66 in.	3.7 in.	1.57 in.
OMNIDRIVE® BASICS	Electronic Dimmable Driver		1	b	ttps://www.diodeled.c	OMNIDRIVE®			er Specification She
Compact electronic dimmabl	e (ELV) driver for everyday projects.			<u></u>	ttp3.// www.ulodeled.c	onycastonyaownioad/pro			tains
								ional Models ional Features	Derating Curves System Diagrams
DI-ODBELV-24V60W-LPELV	120V AC 50/60Hz, 0.5A	24V	60W	No Minimum Load	Yes	Yes	5.5 in.	4.7 in.	0.96 in.
DI-ODBELV-24V60W	120V AC 50/60Hz, 0.5A	24V	60W	No Minimum Load	Yes	Yes	4.2 in.	1.75 in.	0.96 in.
DI-ODBELV-24V96W-LPS	120V AC 50/60Hz, 0.83A	24V	96W	No mimimum load	Yes	Yes	11.25 in.	3.75 in.	1.9 in.
VLM Series Constant	Voltage Driver							-	er Specification She
	VM dimming, and color-changing app	lications.		nttps://www.diodeled.	com/custom/download	d/productFile/filename/VLM	n-Specification%20		er%20&%20J-Box).pd tains
	···;,-·····						• Addit • Addit	ional Models	Derating Curves System Diagrams

									, ·
VLM60W-24-LPS3R	120 / 277VAC 47 - 63Hz	24V	60W	No Minimum Load	Yes	PWM	10.79 in.	7.34 in.	2.36 in.
VLM60W-24-LPM	120 / 277VAC 47 - 63Hz	24V	60W	No Minimum Load	Yes	PWM	8.19 in.	2.94 in.	1.31 in.

PoE (Power over Ethernet)

Constant voltage platform, ready for Power over Ethernet (inquire)

RECOMMENDED CONTROLLERS

SKU	DESCRIPTION					
TOUCHDIAL [™] Control Systems The TOUCHDIAL [™] zone control system controls single color dimming, tunable white, and color changing LED lighting via mobile device and additional TOUCHDIAL controls.						
DI-RF-WMT-RGBW	TOUCHDIAL RGB(W) Wall Control - Single Zone					
DI-RF-REC-CV-A	TOUCHDIAL Color Control System - WiFi Receiver					
DI-RF-REM-RGBW-4	TOUCHDIAL Color Control System - RGB/RGBW 4- Zone Remote Controller					
DI-WIFI-RF-TRMS	TOUCHDIAL Color Control System - WiFi Hub					
CASAMBI® Controllers The CASAMBI controllers will remotely control IOS & Android.	your lighting through the app - downloadable for					
CBU-PWM4	CASAMBI PWM4 Single Color Dimming Controller					
CBU-A2D	CASAMBI A2D 2 Channel 0-10V/DALI Controller					





Specification Sheet

Available in static white	ighting lighting with top-bending and side-bending options. and colors, and suitable for wet locations (IP65).	Date Project Notes	() IP65		
MECHANICAL D	IAGRAMS				
	2 in. (51 mm) Width 0 mm)			Endcap 0.56 in. (15 mm)	
	Height			Endcap 0.98 in. (25 mm)	
	Vidth (51 mm)			Endcap 0.8 in. (21 mm)	
(Height			Endcap 0.76 in. (20 mm	-



Specification Sheet

NEON BLAZE[™] 24V

Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options. Available in static white and colors, and suitable for wet locations (IP65).

Date			
Project Notes			
	()^ IP65	24 VDC	Ċ

ACCESSORIES

DI-NB-96M-CNCT DI-SE-NB-STWC-EC DI-SE-NB-STBW-20 DI-SE-NB-ST-FR-EC NEON BLAZE Side Bending, Straight Wire Entry Connector and Frosted end cap pair NEON BLAZE Side Bending, Straight Wire Splice NEON BLAZE Side Bending, Straight Wire Entry Frosted end cap pair only (no lead wire) NEON BLAZE Top and Side Emitting Male connector with 96" lead Connector, 20 ft. A. Length: 96 in Length: 12 in. 0.97 Length: 20 ft. 1 37 in 0.57 in DI-SE-NB-TTT-2 DI-SE-NB-SDWC-EC DI-SE-NB-JPR DI-SE-NB-SDWC-EC-FDC NEON BLAZE Side Bending, Strip to Strip Connector Frosted, Pack of 2 NEON BLAZE Side Bending Jumper with Frosted top cap and end cap NEON BLAZE Side Bending, Side Wire Entry Connector and Frosted end cap pair NEON BLAZE Side Bending, Side wire entry connector and frosted end cap pair, Female DC Plug Jumper Length: 3JPR - (3 in.) 0.98 6JPR - (6 in.) Length: 12 in. 12JPR - (12 in.) Length: 12 in. 1.37 in 24JPR - (24 in.) 0.57 in DI-SE-NB-SD-FR-EC DI-SE-NB-BWC-EC DI-SE-NB-B-FR-EC DI-SE-NB-EC-5 NEON BLAZE Side Bending, Side Wire Entry Frosted end NEON BLAZE Side Bending, Bottom Wire Entry Connector and Frosted end cap pair NEON BLAZE, Side Emitting, End Cap Pair, 5 Pack NEON BLAZE Side Bending, Bottom Wire Entry Frosted cap pair only (no lead wire) end cap pair only (no lead wire) 0.98 in 0.68 in 0.97 0.57 in. 0.97 in Length: 12 in. 1.37 in 1.37 in. 0.57 in. 0.57 in.



Specification Sheet

NEON BLAZE[™] 24V

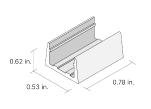
Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options. Available in static white and colors, and suitable for wet locations (IP65).

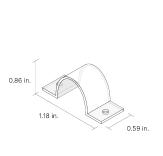
Date		
Project Notes		
	IP65	24 VDC

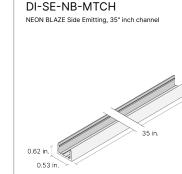
SIDE BENDING ACCESSORIES

DI-SE-NB-BUC-16 NEON BLAZE Side Emitting, Bottom U-clip, Bag of 16

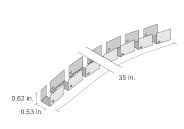


DI-SE-NB-TUC-16 NEON BLAZE Side Emitting, Top U-clip, Bag of 16



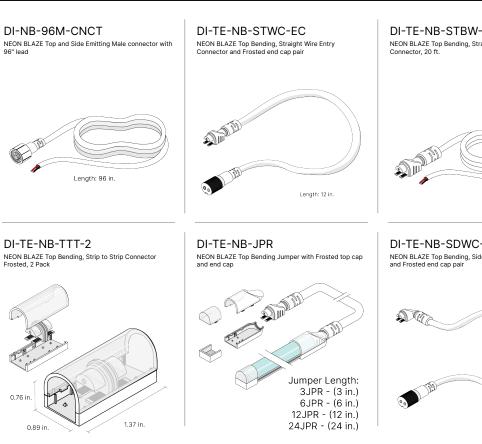


DI-SE-NB-FLCH-WH NEON BLAZE Flexible Spine Channel, Side Bending, 1m, White

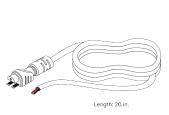


TOP BENDING ACCESSORIES

0.76 ir



DI-TE-NB-STBW-20 NEON BLAZE Top Bending, Straight Wire Splice

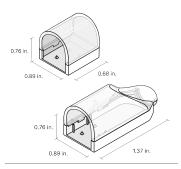


DI-TE-NB-SDWC-EC NEON BLAZE Top Bending, Side Wire Entry Connector

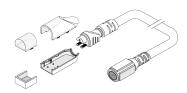


DI-TE-NB-ST-FR-EC

NEON BLAZE Top Bending, Straight Wire Entry Frosted end cap pair



DI-TE-NB-SDWC-EC-FDC NEON BLAZE Top Bending, Side Wire Entry Connector and Frosted end cap pair, Female DC Plug



Length: 12 in.



Specification Sheet

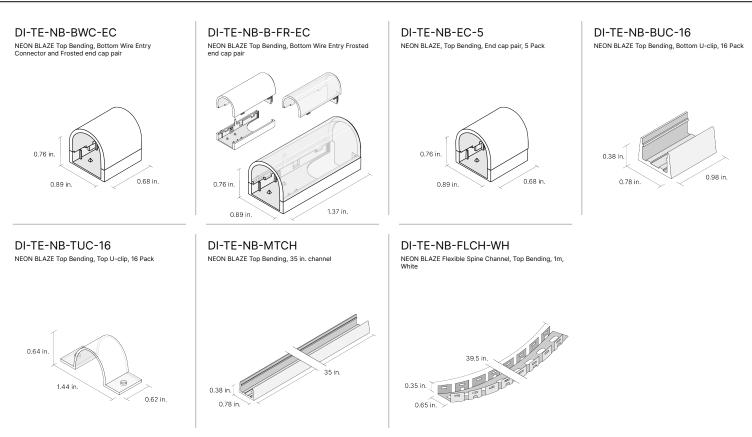
NEON BLAZE[™] 24V

Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options. Available in static white and colors, and suitable for wet locations (IP65).

Date Project Notes			
	IP65	24 VDC	

TOP BENDING ACCESSORIES



DELIVERY OPTIONS

Field Assembly
 Fastest order fulfillment. Field connectors and accessories not included.

• Factory + Field (Hybrid)

Onsite modifications with factory connection. Additional accessories not included.

Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.

- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run.
- 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.
- Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.

Operating temperature is measured according to the minimum and maximum ambient temperature environment.

NEON BLAZE™ Diffused LED Lighting

Specification Sheet

NEON BLAZE[™] 24V

Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options. Available in static white and colors, and suitable for wet locations (IP65).

Date

Project Notes



CERTIFICATIONS

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
- CE & EMC Compliant.
- Approved for storage areas of clothes closets per NEC 410.16.A.3 and 410.16.C.5.

Environment

- Ambient Temperature: -4 ~ 122°F (-20 ~ 50°C)
- Operating Temperature: -4 ~ 176°F (-20 ~ 80°C)
- RoHS Compliant.

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.

Safety / Warnings / Disclosures

- 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
- Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
- 4. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- 5. 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.
- Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, 6. factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
- 7. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
- 8. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
- 9. Do not modify product beyond instructions or warranty will be void.
- 10. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- 11. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to 12. match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY

Limited Warranty

• 5 Year limited warranty

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled. com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

()

IP65

24

Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.