

DOUBLE BLAZE™ 12V LED TAPE LIGHT

SPECIFICATION SHEET

- Very High Brightness
- Available in 80+ CRI
- 9.5 ft. maximum run
- UL Listed & R/C SAM Manual
- Suitable for closet use
- 5-Year limited warranty



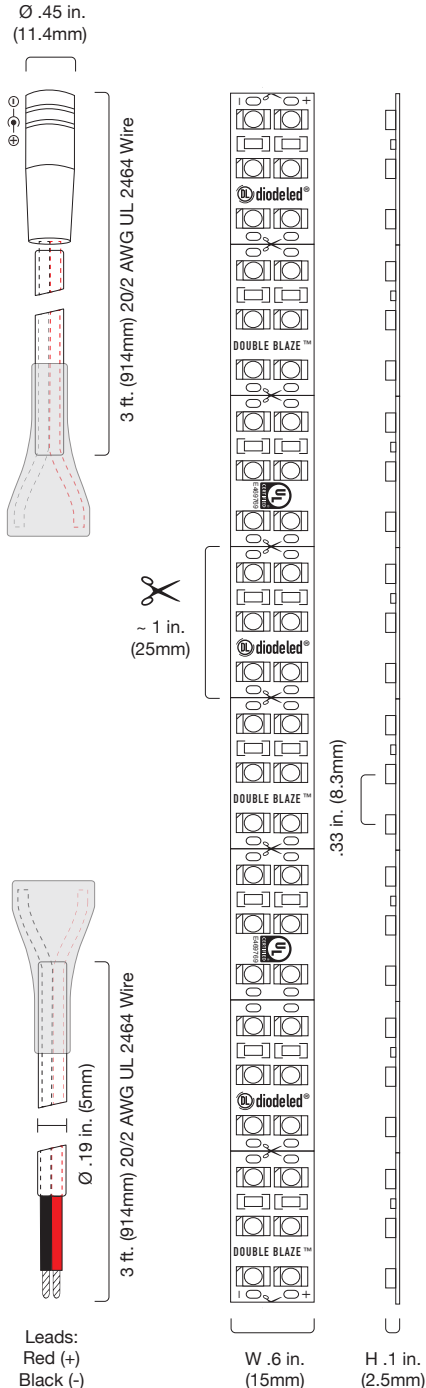
SPECIFICATIONS

Input Voltage: 12VDC Constant Voltage
Power Consumption / ft.: 5.75W / 479mA
LED Chip Type: Epistar 3528 SMD Chip
LED Chip Beam Angle: 120°
LED Chips / ft.: 72
Mounting: 3M™ 55280 Adhesive
Field Cuttable: ~ 1 in.
Maximum Run¹: 9.5 ft.
Connections²: 3 ft. Female DC plug on end.
 3 ft. hard-wire lead opposing end. Leads: 20/2 AWG.

Dimmable: Yes
Ambient Temp³: -4 ~ 122°F (-20 ~ 50°C)
Operating Temp⁴: -4 ~ 176°F (-20 ~ 80°C)
Environment⁵: Indoor / dry location
Dimensions: .6 x .1 in. (W x H)
Certifications: UL Listed 2108. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. E469769 (UL Listed), E469770 (SAMS Manual). Suitable for installation in a clothes closet.

Item #	CCT (Kelvin) ⁶	Lumens / ft. ⁷	CRI	Efficacy (lm/W) ⁸
DI-12V-DB27-8009	2700K	517	83.6	89.9
DI-12V-DB30-8009	3000K	543	81.1	94.4
DI-12V-DB50-8009	5000K	579	81.4	100

- Note**¹ Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- Note**² Wire leads and accessories are not rated for in-wall installation unless otherwise noted. Attached wire leads and connections are field-cuttable.
- Note**³ 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.
- Note**⁴ Operating temperature is measured according to the minimum and maximum ambient temperature environment.
- Note**⁵ Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
- Note**⁶ Epistar 3528 SMD Chip binning ranges: (2700K 80+ CRI: 2580-2725K), (3000K 80+ CRI: 2870-3045K), (5000K 80+ CRI: 5028-5310K).
- Note**⁷ Lumen value measured in accordance to IES LM-79-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- Note**⁸ Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value has been provided and calculated as follows: Lumen value (measured in accordance to IES LM-79-08) divided by average power consumption per foot.

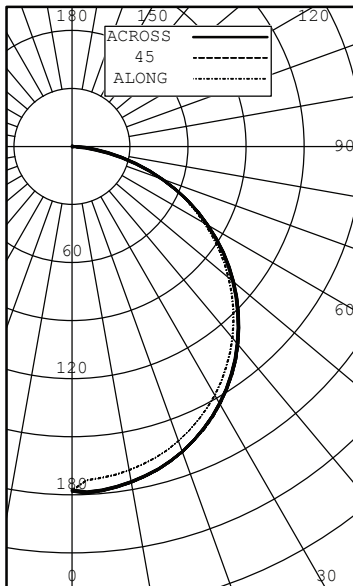


Item #:	Project:
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DOUBLE BLAZE™ 2700K

DI-12V-DB27-8009

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	178	178	178	178	178
5	172	177	179	178	179
10	170	175	176	176	176
15	167	172	173	173	173
20	162	167	168	167	168
25	155	160	161	161	161
30	148	153	154	153	153
35	139	144	144	144	144
40	129	133	134	133	133
45	118	122	122	121	121
50	106	109	109	109	109
55	93	96	96	95	95
60	79	81	81	81	81
65	65	66	66	66	66
70	49	51	51	51	50
75	34	35	35	35	34
80	19	20	20	19	19
85	8	8	8	7	7
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	139	26.91
0-40	229	44.20
0-60	407	78.61
0-90	517	100.00
40-90	289	55.80
60-90	111	21.39
90-180	0	0.00
0-180	517	100.00

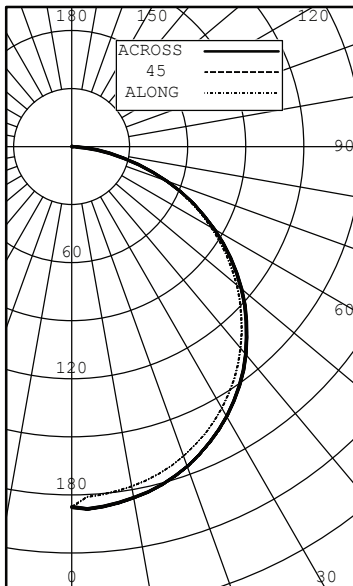
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	11.2	5.08
6.00	4.96	7.62
8.00	2.79	10.2
10.0	1.79	12.7
12.0	1.24	15.2
14.0	0.911	17.8
16.0	0.698	20.3

DOUBLE BLAZE™ 3000K

DI-12V-DB30-8009

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	186	186	186	186	186
5	181	186	187	187	187
10	178	183	185	184	184
15	175	180	181	181	181
20	170	175	176	176	176
25	164	168	169	169	169
30	156	160	161	161	161
35	147	151	151	151	151
40	136	140	140	140	140
45	124	128	128	128	128
50	111	115	115	114	114
55	98	101	100	100	100
60	83	85	85	85	85
65	68	70	70	69	69
70	52	53	53	53	53
75	35	36	36	36	36
80	20	21	20	20	20
85	8	8	8	8	7
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	146	26.88
0-40	240	44.19
0-60	427	78.66
0-90	543	100.00
40-90	303	55.81
60-90	116	21.34
90-180	0	0.00
0-180	543	100.00

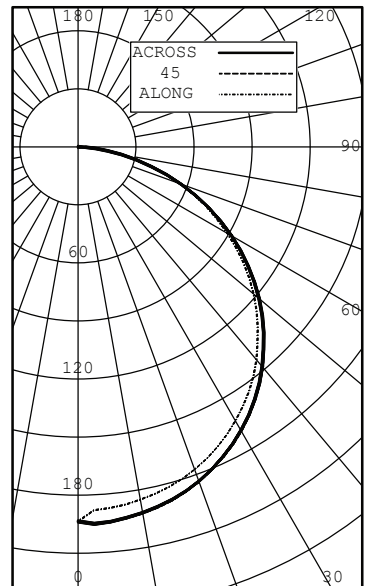
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	11.7	5.09
6.00	5.20	7.63
8.00	2.92	10.2
10.0	1.87	12.7
12.0	1.30	15.3
14.0	0.954	17.8
16.0	0.731	20.4

DOUBLE BLAZE™ 5000K

DI-12V-DB50-8009

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	194	194	194	194	194
5	187	193	195	194	194
10	185	191	192	192	192
15	182	188	189	189	189
20	177	183	184	184	184
25	171	177	177	177	177
30	163	169	169	169	169
35	154	159	160	159	159
40	143	148	149	148	148
45	131	136	136	136	136
50	119	123	122	122	122
55	104	108	108	107	107
60	89	92	92	92	91
65	73	75	75	75	75
70	56	58	58	58	57
75	39	40	40	40	39
80	23	24	23	23	23
85	9	10	10	10	9
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	153	26.38
0-40	252	43.52
0-60	451	78.03
0-90	579	100.00
40-90	327	56.48
60-90	127	21.97
90-180	0	0.00
0-180	579	100.00

Cone Of Light Tabulation

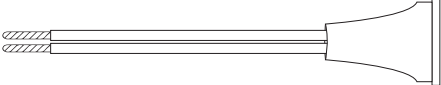
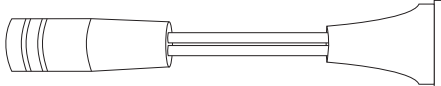
Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	12.2	5.14
6.00	5.40	7.72
8.00	3.04	10.3
10.0	1.94	12.9
12.0	1.35	15.4
14.0	0.992	18.0
16.0	0.760	20.6

* Photometric data complies with LM-79-08, ANSI C82.77-02.

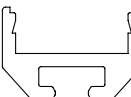
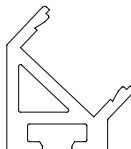
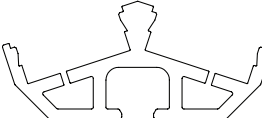
ACCESSORIES

DOUBLE BLAZE™ Tape Light Connectors

DOUBLE BLAZE tape light connectors have a Class 2 amp rating: 60W/5A @ 12VDC; 100W/4.17A @ 24VDC. DOUBLE BLAZE Tape Light Connectors are not compatible with CHROMAPATH Aluminum Channels due to the wide connector design.

Item #	Type	Description	Image
DI-0811	DOUBLE BLAZE Splice Connection	Attaches tape light directly to a hard-wired driver / low voltage control. Dimensions: 3.0 x 0.8 in. (L x W)	
DI-0812	DOUBLE BLAZE DC plug Connector	Attaches tape light directly to plug-in adapter / DC plug accessory. Dimensions: 3.0 x 0.8 in. (L x W)	
DI-0813	DOUBLE BLAZE Flexible Extension	Attaches two sections of tape light together. Wire lead allows for turns around tight corners. Dimensions: 3.0 x 0.8 in. (L x W)	
DI-0814	DOUBLE BLAZE Tape Link	Attaches two sections of tape light together. Dimensions: 0.5 x 0.8 in. (L x W)	

CHROMAPATH™ ALUMINUM CHANNELS

CHROMAPATH Model*	Description	Image
SQUARE Aluminum Channel	Field-cutable, SQUARE aluminum tape light enclosure with a matte anodized finish. Available in 4 ft. (48 in.) lengths.	
45° Aluminum Channel	Field-cutable, 45° aluminum tape light enclosure with a matte anodized finish. Available in 4 ft. (48 in.) lengths.	
DUO Aluminum Channel	Field-cutable, DUO aluminum tape light enclosure with a matte anodized finish. Available in 4 ft. (48 in.) lengths.	
SLIM Aluminum Channel	Field-cutable, SLIM aluminum tape light enclosure with a matte anodized finish. Available in 4 ft. (48 in.) lengths.	

* See the 'CHROMAPATH Aluminum Channels' product page for kit and bundle item #'s and additional accessory options. Please note the beam angle of the DOUBLE BLAZE tape light is slightly reduced when paired with the CHROMAPATH channels, due to the wider PCB design of the tape light. DOUBLE BLAZE Tape Light Connectors are not compatible with CHROMAPATH Aluminum Channels.

SWITCHES, CONTROLS, LED DRIVERS, & SYSTEM DIAGRAMS

We offer a variety of switches, controls, and LED drivers (power supplies) to address all common light installations. For additional information, please see the additional component sections of our website or catalog. See the 'Solid Color Tape Light Installation Guide' for system diagrams and installation instructions. For additional questions and concerns please contact technical support.

ADDITIONAL RESOURCES

Visit the on line product page at www.DiodeLED.com for additional resources including:

- **SOLID COLOR LED TAPE LIGHT Installation Guide**
For system diagrams and full installation instructions.
- **Voltage Drop Charts**
Use to specify appropriate wire gauge for installation. Available at the 'Tools & Resources' page at www.DiodeLED.com.

SAFETY & DISCLOSURES

- Install in accordance with the national and local electrical code regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- This product must be powered with a compatible Class 2 DC constant voltage LED driver (power supply).
- Do not connect directly to high voltage or AC power.
- Do not install in location where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
- It is generally recommended to load the driver no more than 80% the labeled rating for maximum performance and longevity. However, see each driver specification sheet for exact minimum and maximum loading values.
- Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment. Exceeding the maximum operating temperature may damage the controller or fixture.
- 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.
- 'Voltage drop' is a gradual decrease in voltage along a conductor through which current is flowing. When specifying an LED system, ensure to calculate voltage drop appropriately. Voltage drop calculators will suggest the proper gauge wire and distance to install the driver from the fixture.
- Attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted.
- All fixture accessories including wet location connectors, DC connections, etc. have a Class 2 amperage rating unless otherwise noted (60W/5A @ 12V DC; 100W/4.17A @ 24V DC).
- Do not modify or disassemble this product beyond instructions or the warranty will be void.
- 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 match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY INFORMATION

Limited Warranty

This LED fixture has a five (5) year limited warranty from the date of shipment. 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 under the 'Tools & Resources' tab. For warranty related questions, please contact customer service.

Consumer's Acknowledgment

Diode LED 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 right components is essential. Diode 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 Diode 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 Diode 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 purchaser 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. Diode LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Diode 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 Diode LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.



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