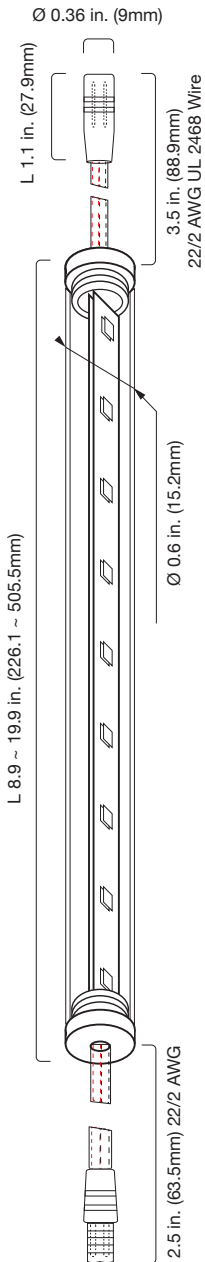


TRUE FOCUS™ LED LIGHT BAR

SPECIFICATION SHEET

- Medium/ high brightness
- Indoor / dry location
- Can be rotated
- RGB color changing option
- UL Listed
- 3-Year limited warranty



SPECIFICATIONS

Input Voltage: 12VDC Constant Voltage
Power Consumption: See chart below
LED Chip Type: Epistar 5050 SMD
LED Chip Beam Angle: 120°
Color Rendering Index: 70
Mounting: 2 clear plastic mounting clips & 2 stainless steel mounting screws included
Connections ¹: 3.5 in. female wet location plug, 3.5 in. male wet location plug opposing end. Plug: 9mm Dia. 22/2 AWG UL 2468 wire
Dimmable: Yes

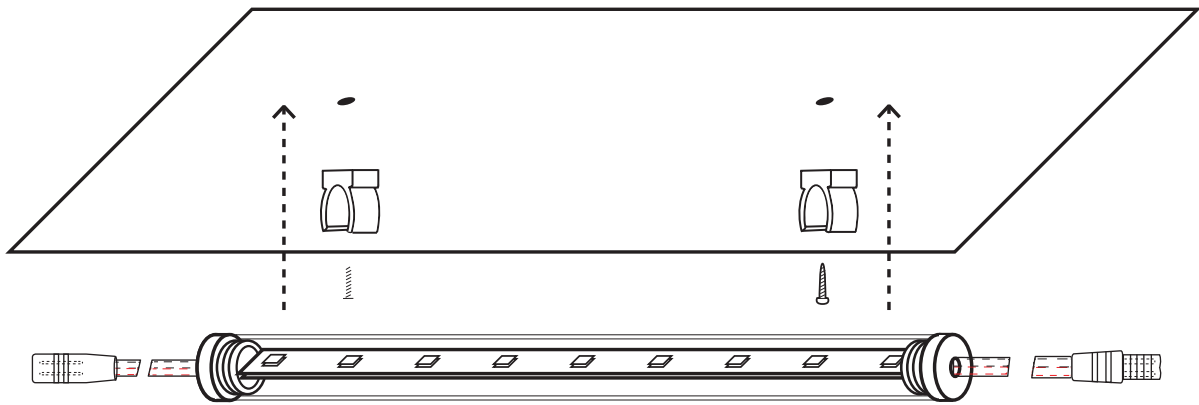
Ambient Temp ²: -4 ~ 122°F (-20 ~ 50°C)
Operating Temp ³: -4 ~ 176°F (-20 ~ 80°C)
Environment ⁴: Indoor / Dry location
Dimensions: 0.6 x 1 in. (Dia. x H)
 (H includes mounting clips)
Certifications: UL Listed 2108 Low voltage lighting systems, power units, luminaires and fittings. UL# E351254.
Included Items: 2 mounting clips, 2 mounting screws, 1 wet location splice connector pair

Item #	Power Consumption	Max. Wattage Per Bar ⁵	CCT (Kelvin) ⁶	Lumens ⁷	Efficacy (lm/W) ⁸
DI-0255 (8.9 in.)	1.44W / 120mA	10.08W	3000K	139	96.53
DI-0256 (8.9 in.)	1.44W / 120mA	10.08W	6300K	135	93.75
DI-0250 (13 in.)	2.16W / 180mA	10.08W	3000K	211	97.69
DI-0251 (13 in.)	2.16W / 180mA	10.08W	6300K	195	90.28
DI-0252 (19.9 in.)	3.6W / 300mA	18W	3000K	325	90.28
DI-0253 (19.9 in.)	3.6W / 300mA	18W	6300K	333	92.5
DI-0257 (8.9 in.)	1.44W / 120mA	11.52W	RGB	46	31.94
DI-0254 (19.9 in.)	3.6W / 300mA	18W	RGB	114	31.67

- Note ¹** Attached connectors and connector accessories are not rated for in-wall installation unless otherwise noted. Attached connections are field cuttable.
Note ² 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 ³ Operating temperature is measured according to the minimum and maximum ambient temperature environment.
Note ⁴ Do not install in location where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
Note ⁵ Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run wattage.
Note ⁶ Epistar 5050 SMD Chip binning ranges: (3000K 70 CRI: 2975K-3100K), (6300K 70 CRI: 6000-6500K).
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 fixture.

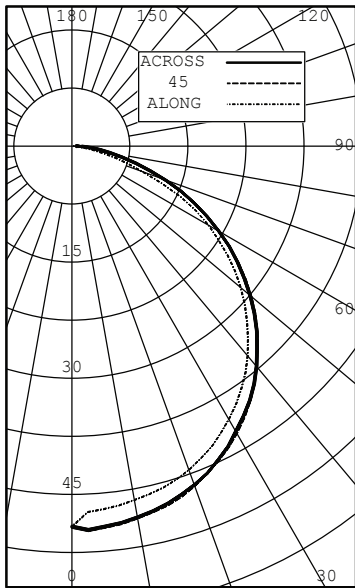
Item #:		Project:	
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MOUNTING



TRUE FOCUS™ 8.9 in. 3000K
DI-0255

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	49	49	49	49	49
5	47	49	50	49	49
10	46	48	49	49	49
15	46	47	48	48	48
20	44	46	47	46	47
25	43	45	45	45	45
30	41	42	43	42	42
35	38	40	40	40	40
40	35	37	37	37	37
45	32	33	34	34	34
50	29	30	30	30	30
55	25	26	26	26	26
60	20	22	22	22	22
65	16	17	17	17	17
70	10	12	13	13	13
75	6	7	8	9	9
80	3	3	4	5	5
85	1	1	2	3	3
90	0	1	1	1	1

ZONAL LUMENS AND PERCENTAGES

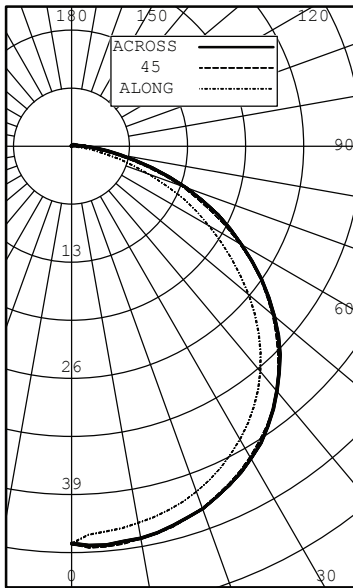
ZONE	LUMENS	% LUMINAIRE
0-30	39	27.63
0-40	63	45.41
0-60	112	80.41
0-90	139	100.00
40-90	76	54.59
60-90	27	19.59
90-180	0	0.00
0-180	139	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	3.09	5.09
6.00	1.37	7.64
8.00	0.772	10.2
10.0	0.494	12.7
12.0	0.343	15.3
14.0	0.252	17.8
16.0	0.193	20.4

TRUE FOCUS™ 8.9 in. 6300K
DI-0256

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	44	44	44	44	44
5	43	44	45	45	45
15	42	43	44	44	44
25	40	41	42	42	42
35	36	37	38	38	38
45	30	31	33	33	33
55	22	24	26	26	26
65	14	16	17	18	18
75	6	7	9	9	9
85	1	2	2	3	3
90	0	1	1	1	1
95	0	1	1	1	1
105	0	0	0	0	0
115	0	0	0	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

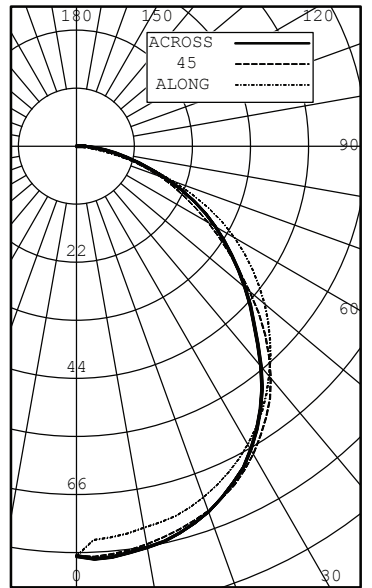
ZONE	LUMENS	% LUMINAIRE
0-30	36	26.36
0-40	59	43.71
0-60	106	78.36
0-90	134	98.90
40-90	75	55.19
60-90	28	20.54
90-180	1	1.10
0-180	135	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	2.78	5.26
6.00	1.24	7.88
8.00	0.695	10.5
10.0	0.445	13.1
12.0	0.309	15.8
14.0	0.227	18.4
16.0	0.174	21.0

TRUE FOCUS™ 13 in. 3000K
DI-0250

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	78	78	78	78	78
5	74	77	78	79	78
15	73	75	75	77	76
25	68	71	71	71	70
35	61	64	63	62	61
45	52	54	51	49	48
55	41	40	35	36	36
65	28	22	23	25	25
75	12	8	11	12	12
85	0	1	3	4	4
90	0	0	1	1	2
95	0	0	0	0	0
105	0	0	0	0	0
115	0	0	0	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	61	28.94
0-40	100	47.36
0-60	173	81.68
0-90	211	99.89
40-90	111	52.53
60-90	38	18.21
90-180	0	0.11
0-180	211	100.00

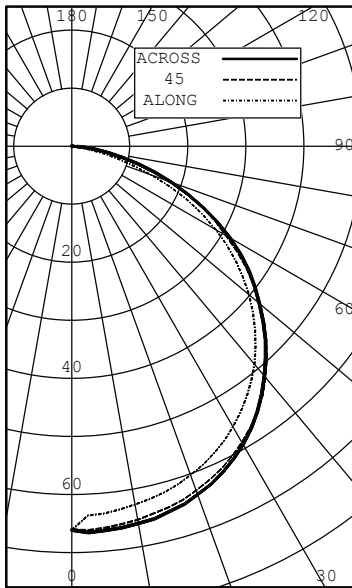
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	4.94	5.10
6.00	2.20	7.65
8.00	1.23	10.2
10.0	0.790	12.8
12.0	0.549	15.3
14.0	0.403	17.9
16.0	0.309	20.4

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

TRUE FOCUS™ 13 in. 6300K
DI-0251

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	66	66	66	66	66
5	64	66	66	67	66
15	62	64	64	66	65
25	58	61	61	63	62
35	53	55	56	56	56
45	45	48	47	48	47
55	35	38	37	37	37
65	22	25	25	25	25
75	8	11	11	12	12
85	0	1	2	2	2
90	0	0	0	0	0
95	0	0	0	0	0
105	0	0	0	0	0
115	0	0	0	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

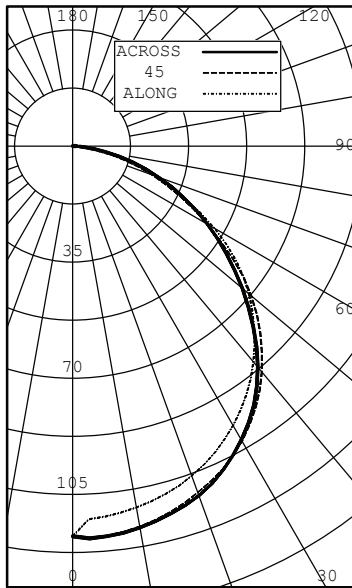
ZONE	LUMENS	% LUMINAIRE
0-30	53	27.09
0-40	87	44.87
0-60	156	80.43
0-90	195	100.00
40-90	107	55.13
60-90	38	19.57
90-180	0	0.00
0-180	195	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	4.22	5.25
6.00	1.87	7.87
8.00	1.05	10.5
10.0	0.675	13.1
12.0	0.469	15.7
14.0	0.344	18.4
16.0	0.264	21.0

TRUE FOCUS™ 19.9 in. 3000K
DI-0252

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	118	118	118	118	118
5	112	118	118	119	118
15	109	114	114	116	115
25	102	108	107	109	108
35	91	97	96	96	95
45	77	82	80	79	77
55	60	64	59	57	57
65	38	39	36	37	37
75	17	13	17	19	19
85	1	2	3	4	4
90	0	1	1	1	1
95	0	0	0	0	0
105	0	0	0	0	0
115	0	0	0	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

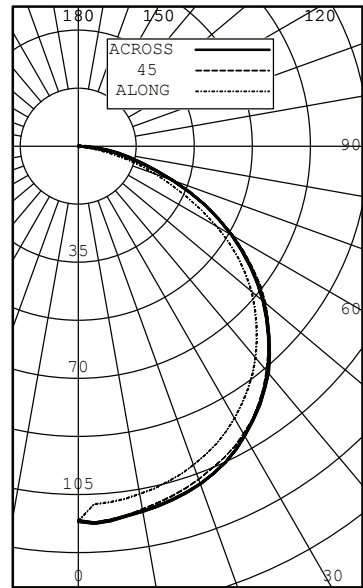
ZONE	LUMENS	% LUMINAIRE
0-30	93	28.50
0-40	152	46.85
0-60	267	81.99
0-90	325	99.95
40-90	173	53.10
60-90	58	17.96
90-180	0	0.05
0-180	325	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	7.46	5.13
6.00	3.31	7.69
8.00	1.86	10.3
10.0	1.19	12.8
12.0	0.828	15.4
14.0	0.609	17.9
16.0	0.466	20.5

TRUE FOCUS™ 19.9 in. 6300K
DI-0253

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	113	113	113	113	113
5	108	113	113	114	113
15	105	110	109	111	110
25	99	103	104	106	105
35	89	94	95	96	95
45	76	81	81	82	81
55	59	64	64	64	63
65	36	43	43	43	42
75	15	18	19	20	20
85	1	2	5	6	5
90	0	1	1	0	0
95	0	0	0	0	0
105	0	0	0	0	0
115	0	0	0	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	89	26.85
0-40	148	44.51
0-60	267	80.14
0-90	333	99.98
40-90	185	55.47
60-90	66	19.84
90-180	0	0.02
0-180	333	100.00

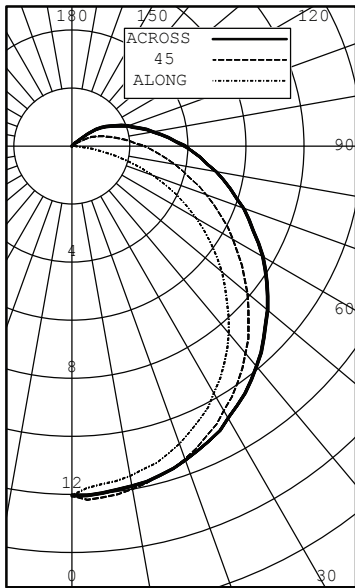
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	7.16	5.21
6.00	3.18	7.82
8.00	1.79	10.4
10.0	1.15	13.0
12.0	0.796	15.6
14.0	0.585	18.2
16.0	0.448	20.9

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

TRUE FOCUS™ 8.9 in. RGB
DI-0257

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	12	12	12	12	12
5	12	12	12	12	12
15	11	12	12	12	12
25	10	11	11	11	11
35	9	9	10	10	10
45	8	8	9	9	9
55	6	6	7	8	8
65	4	5	6	7	7
75	2	3	4	5	6
85	0	2	3	4	4
90	0	1	3	4	4
95	0	1	2	3	3
105	0	0	1	2	2
115	0	0	1	1	2
125	0	0	0	1	1
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

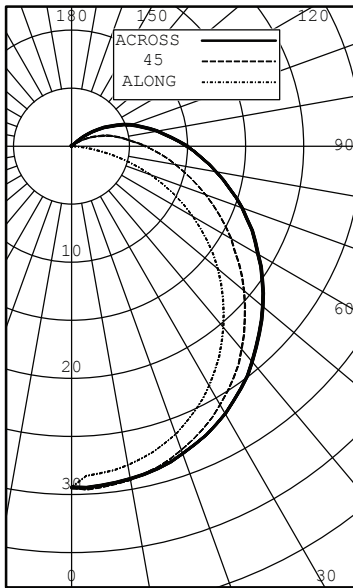
ZONE	LUMENS	% LUMINAIRE
0-30	9	20.67
0-40	16	34.13
0-60	29	62.32
0-90	41	90.34
40-90	26	56.21
60-90	13	28.01
90-180	4	9.66
0-180	46	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	0.754	5.14
6.00	0.335	7.70
8.00	0.188	10.3
10.0	0.121	12.8
12.0	0.0837	15.4
14.0	0.0615	18.0
16.0	0.0471	20.5

TRUE FOCUS™ 19.9 in. RGB
DI-0254

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	29	29	29	29	29
5	28	30	30	30	29
15	27	29	29	29	29
25	25	27	27	27	27
35	22	24	24	25	25
45	18	20	21	22	23
55	14	16	18	19	20
65	10	12	14	16	17
75	5	7	11	13	14
85	1	4	8	10	11
90	0	3	6	9	10
95	0	2	5	8	9
105	0	1	4	6	6
115	0	0	2	4	4
125	0	0	0	2	2
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	23	20.35
0-40	38	33.64
0-60	70	61.61
0-90	102	89.83
40-90	64	56.19
60-90	32	28.22
90-180	12	10.17
0-180	114	100.00






Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	1.85	5.16
6.00	0.822	7.74
8.00	0.462	10.3
10.0	0.296	12.9
12.0	0.205	15.5
14.0	0.151	18.1
16.0	0.116	20.6

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

ACCESSORIES

TRUE FOCUS™ LED Light Bars feature 9mm plugs. These plugs are compatible with the following 9mm accessories. All fixture accessories including Wet Location Connections, etc. have a Class 2 amperage rating unless otherwise noted (60W/5A @ 12V DC; 100W/4.17A @ 24V DC).

Item #	Type	Description	Image
DI-0710-M-** (Male) DI-0710-F-** (Female)	Wet Location Plug (9mm) to DC Connector	Attaches a wet location plug to a male DC accessory or plug-in adapter (not rated for wet location environments). Gender specification applies to the wet location connection only. Wire: 20/2 AWG. Dimensions: 7 x 0.3 in. (L x W)	
DI-0725-**	Wet Location Solder Connector Pair (9mm Plugs)	Converts a wet location plug to a hard-wired connection (1x male & 1x female wet location plug). Wire: 22/2 AWG. Dimensions: 4.5 x 0.3 in. (L x W)	
DI-0757-** (6 in.) DI-0758-** (12 in.) DI-0759-** (24 in.) DI-0709-** (39 in.) DI-0810-** (16 ft.)	Wet Location Extension Cable (9mm Plugs)	Creates an extension between wet location plugs. Wire: 22/2 AWG. Connector width: 0.3 in.	
DI-0804-** (2-way) DI-0805-** (3-way) DI-0806-** (5-way)	Wet Location Splitter Cable (9mm Plugs)	Splits a connection for wet location accessories. Wire: 22/2 AWG. Dimensions: 8.5 x 0.6 x 0.3 in. (L x W x H) Connector width: 0.3 in.	
DI-0751-**	TRUE FOCUS Light Bar Mounting Clips	Plastic clips used to mount TRUE FOCUS Light Bars. 1 screw included per clip. 0.6 x 0.5 x 0.4 in. (L x W x H)	

** Products available in 10x(TRUE FOCUS Light Bar Mounting Clips only), 25x, and 50x pack bulk quantities. Add -10(TRUE FOCUS Light Bar Mounting Clips only), -25, or -50 to each product # for bulk quantities.

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. 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:

- **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. Attached connections are field cuttable and will not void warranty if modified.
- 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 three (3) 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 in-field 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.



Toll Free: 877.817.6028 | Fax: 415.592.1596 | www.DiodeLED.com | info@DiodeLED.com
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