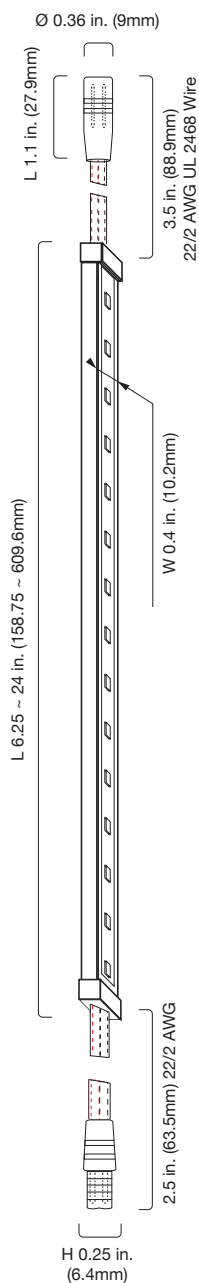


SUNRISE™ LED LIGHT BAR

SPECIFICATION SHEET

- Medium brightness
- Outdoor / wet location
- ETL Listed
- 3-Year limited warranty



SPECIFICATIONS

Input Voltage: 12VDC Constant Voltage
Power Consumption: See chart below
LED Chip Type: Epistar 3528 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: Outdoor / Wet location / IP68
Dimensions: 0.4 x 0.25 in. (W x H)
(H = 0.375 in. with mounting clips)
Certifications: ETL Listed: 4001928. Conforms to ANSI/UL Std 2108. Certified to CAN/CSA Std C22.2 No. 250.0-08. RoHS compliant.
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-0209 (6.25 in.)	0.72W / 60mA	7.2W	3000K	72	100
DI-0210 (6.25 in.)	0.72W / 60mA	7.2W	6300K	82	100
DI-0200 (10.25 in.)	1.2W / 100mA	8.4W	3000K	121	100
DI-0201 (10.25 in.)	1.2W / 100mA	8.4W	6300K	120	100
DI-0211 (12.25 in.)	1.44W / 120mA	8.64W	3000K	136	94.44
DI-0212 (12.25 in.)	1.44W / 120mA	8.64W	6300K	137	95.14
DI-0202 (20.1 in.)	2.4W / 200mA	12W	3000K	245	100
DI-0203 (20.1 in.)	2.4W / 200mA	12W	6300K	233	97.08
DI-0213 (24 in.)	2.8W / 240mA	8.4W	3000K	287	100
DI-0214 (24 in.)	2.8W / 240mA	8.4W	6300K	271	96.79

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 near or around chlorinated/treated water. This product is not rated as submersible. Do not install in location where water may pool or collect. 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.

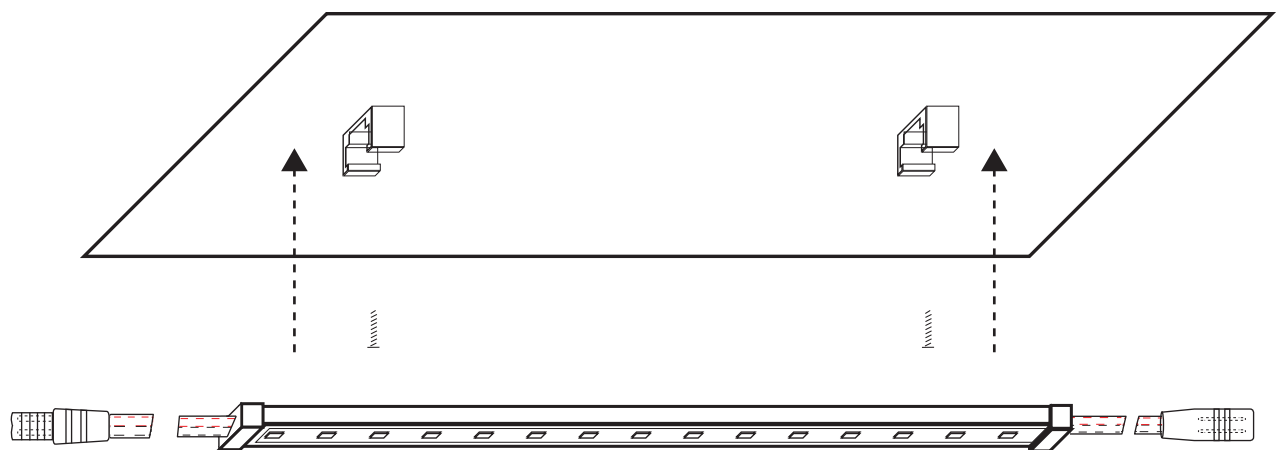
Note ⁶ Epistar 3528 SMD Chip binning ranges: (3000K 70 CRI: 2975K-3100K), (6300K 70 CRI: 6000-6500K).

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.

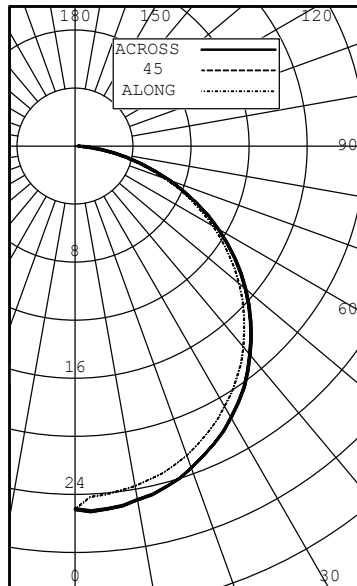
Item #:

Project:



SUNRISE™ 6.25 in. 3000K
DI-0209

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	25	25	25	25	25
5	24	25	25	25	25
10	24	25	25	25	25
15	23	24	24	24	24
20	23	23	24	24	24
25	22	23	23	23	23
30	21	21	22	22	22
35	19	20	20	20	20
40	18	19	19	19	19
45	16	17	17	17	17
50	15	15	15	15	15
55	13	13	13	13	13
60	11	11	11	11	11
65	9	9	9	9	9
70	7	7	7	7	7
75	4	5	5	5	5
80	2	3	3	3	3
85	1	1	1	1	1
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

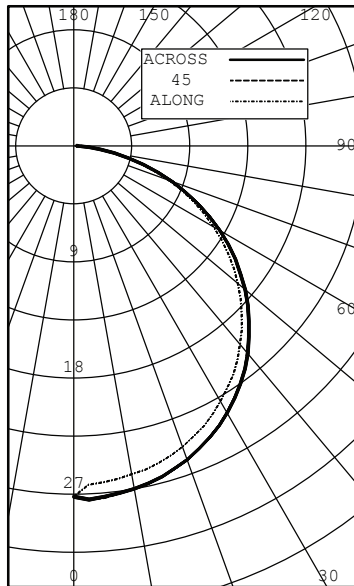
ZONE	LUMENS	% LUMINAIRE
0-30	20	27.04
0-40	32	44.40
0-60	57	78.89
0-90	72	100.00
40-90	40	55.60
60-90	15	21.11
90-180	0	0.00
0-180	72	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	1.57	5.07
6.00	0.697	7.61
8.00	0.392	10.1
10.0	0.251	12.7
12.0	0.174	15.2
14.0	0.128	17.8
16.0	0.0980	20.3

SUNRISE™ 6.25 in. 6300K
DI-0210

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	27	27	27	27	27
5	26	27	27	27	27
10	26	27	27	27	27
15	25	26	27	27	27
20	25	26	26	26	26
25	24	25	25	25	25
30	23	24	24	24	24
35	22	22	23	23	23
40	20	21	21	21	21
45	18	19	19	19	19
50	17	17	17	17	17
55	15	15	15	15	15
60	13	13	13	13	13
65	10	11	11	11	11
70	8	8	8	8	8
75	5	6	6	6	6
80	3	3	3	3	3
85	1	1	1	1	1
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

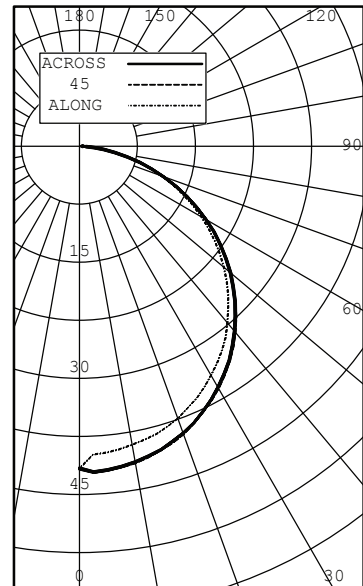
ZONE	LUMENS	% LUMINAIRE
0-30	21	26.35
0-40	35	43.49
0-60	64	78.13
0-90	82	100.00
40-90	46	56.51
60-90	18	21.87
90-180	0	0.00
0-180	82	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	1.71	5.16
6.00	0.758	7.73
8.00	0.426	10.3
10.0	0.273	12.9
12.0	0.190	15.5
14.0	0.139	18.0
16.0	0.107	20.6

SUNRISE™ 10.25 in. 3000K
DI-0200

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	42	42	42	42	42
5	40	42	42	42	42
10	39	41	42	41	41
15	39	40	41	40	41
20	37	39	40	39	39
25	36	37	38	38	38
30	34	36	36	36	36
35	32	34	34	34	34
40	30	31	31	31	31
45	27	28	29	28	28
50	24	25	26	26	26
55	21	22	22	22	22
60	18	19	19	19	19
65	15	15	15	15	15
70	11	12	12	12	12
75	8	8	8	8	8
80	4	5	5	5	5
85	2	2	2	2	2
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	33	26.97
0-40	54	44.27
0-60	95	78.59
0-90	121	100.00
40-90	67	55.73
60-90	26	21.41
90-180	0	0.00
0-180	121	100.00

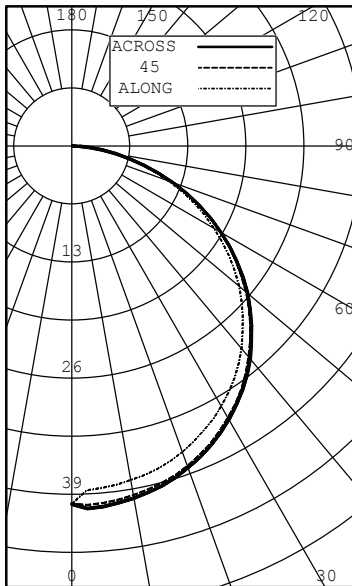
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	2.61	5.07
6.00	1.16	7.60
8.00	0.653	10.1
10.0	0.418	12.7
12.0	0.290	15.2
14.0	0.213	17.7
16.0	0.163	20.3

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

SUNRISE™ 10.25 in. 6300K
DI-0201

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDELPWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	40	40	40	40	40
5	38	40	40	40	41
10	38	40	40	40	40
15	37	39	39	39	39
20	36	38	38	38	38
25	35	37	37	37	37
30	34	35	35	35	35
35	32	33	33	33	33
40	30	31	31	31	31
45	27	28	28	28	28
50	24	25	26	26	26
55	22	22	22	23	23
60	18	19	19	19	19
65	15	16	16	16	16
70	12	12	12	12	12
75	8	8	8	8	8
80	5	5	5	5	5
85	2	2	2	2	2
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

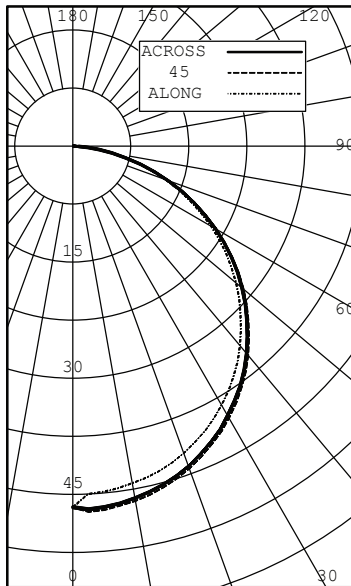
ZONE	LUMENS	% LUMINAIRE
0-30	32	26.28
0-40	52	43.38
0-60	94	77.92
0-90	120	100.00
40-90	68	56.62
60-90	27	22.08
90-180	0	0.00
0-180	120	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	2.51	5.16
6.00	1.12	7.73
8.00	0.629	10.3
10.0	0.402	12.9
12.0	0.279	15.5
14.0	0.205	18.0
16.0	0.157	20.6

SUNRISE™ 12.25 in. 3000K
DI-0211

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDELPWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	47	47	47	47	47
5	45	47	47	47	47
10	44	46	47	46	46
15	43	45	46	45	45
20	42	44	44	44	44
25	41	42	43	42	42
30	39	40	40	40	40
35	36	38	38	38	38
40	34	35	35	35	35
45	31	32	32	32	32
50	28	29	29	29	29
55	24	25	25	25	25
60	21	21	21	21	21
65	17	17	17	17	17
70	13	13	13	13	13
75	9	9	9	9	9
80	5	5	5	5	5
85	2	2	2	2	2
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

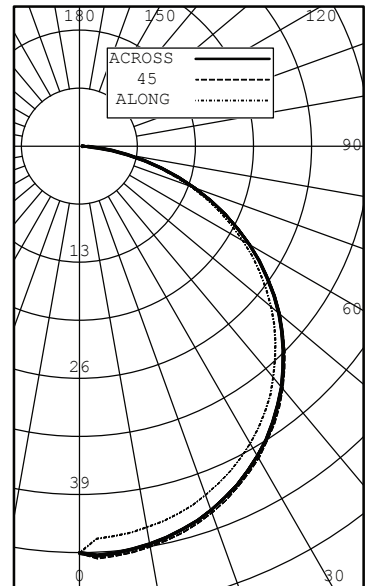
ZONE	LUMENS	% LUMINAIRE
0-30	37	26.91
0-40	60	44.20
0-60	107	78.62
0-90	136	100.00
40-90	76	55.80
60-90	29	21.38
90-180	0	0.00
0-180	136	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	2.94	5.07
6.00	1.31	7.61
8.00	0.734	10.1
10.0	0.470	12.7
12.0	0.326	15.2
14.0	0.240	17.8
16.0	0.184	20.3

SUNRISE™ 12.25 in. 6300K
DI-0212

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDELPWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	46	46	46	46	46
5	44	46	46	46	46
10	43	45	46	45	45
15	43	44	45	44	44
20	42	43	44	43	43
25	40	42	42	42	42
30	38	40	40	40	40
35	36	38	38	38	38
40	34	35	35	35	35
45	31	32	32	32	32
50	28	29	29	29	29
55	25	26	26	26	26
60	21	22	22	22	22
65	17	18	18	18	18
70	13	14	14	14	14
75	9	10	10	10	10
80	5	5	5	6	6
85	2	2	2	2	2
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	36	26.21
0-40	59	43.30
0-60	107	77.92
0-90	137	100.00
40-90	78	56.70
60-90	30	22.08
90-180	0	0.00
0-180	137	100.00

Cone Of Light Tabulation

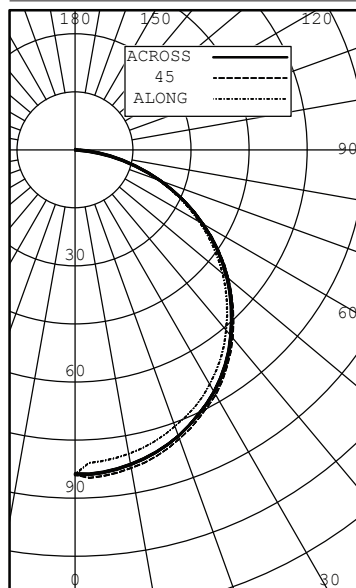
Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	2.87	5.16
6.00	1.27	7.75
8.00	0.717	10.3
10.0	0.459	12.9
12.0	0.319	15.5
14.0	0.234	18.1
16.0	0.179	20.7

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

SUNRISE™ 20.1 in. 3000K

DI-0202

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	84	84	84	84	84
5	81	85	85	84	84
10	80	83	84	83	83
15	78	82	82	81	81
20	76	79	79	79	79
25	73	76	76	75	75
30	70	73	73	72	72
35	66	69	68	68	68
40	61	64	63	63	63
45	56	58	58	57	57
50	50	52	52	51	51
55	44	46	45	45	45
60	37	39	38	38	38
65	30	32	31	31	31
70	23	24	24	24	24
75	16	16	16	16	16
80	9	9	9	9	9
85	3	4	4	4	4
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	66	26.87
0-40	108	44.19
0-60	192	78.63
0-90	245	100.00
40-90	136	55.81
60-90	52	21.37
90-180	0	0.00
0-180	245	100.00

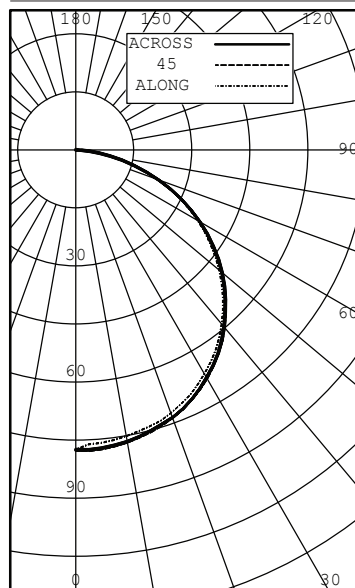
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	5.27	5.10
6.00	2.34	7.64
8.00	1.32	10.2
10.0	0.844	12.7
12.0	0.586	15.3
14.0	0.431	17.8
16.0	0.330	20.4

SUNRISE™ 20.1 in. 6300K

DI-0203

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	78	78	78	78	78
5	76	78	78	77	77
10	75	77	77	76	77
15	74	76	76	75	75
20	72	74	74	73	74
25	70	72	71	71	71
30	67	69	68	68	68
35	63	65	64	64	64
40	59	60	60	60	60
45	54	55	55	55	55
50	48	50	50	49	49
55	43	44	44	43	43
60	36	38	37	37	37
65	30	31	30	30	30
70	23	23	23	23	23
75	16	16	16	16	16
80	9	9	9	9	9
85	4	4	4	4	4
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	61	26.31
0-40	101	43.48
0-60	182	78.17
0-90	233	100.00
40-90	132	56.52
60-90	51	21.83
90-180	0	0.00
0-180	233	100.00

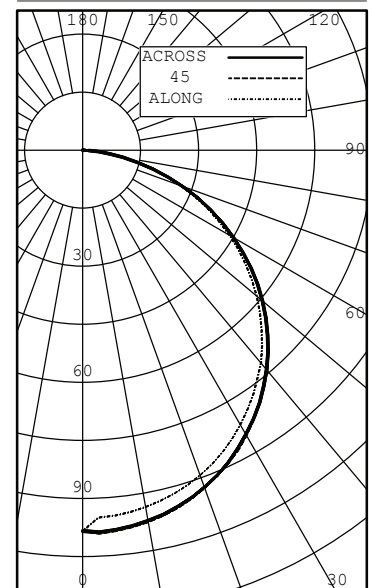
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	4.87	5.18
6.00	2.17	7.78
8.00	1.22	10.4
10.0	0.780	13.0
12.0	0.542	15.6
14.0	0.398	18.1
16.0	0.305	20.7

SUNRISE™ 24 in. 3000K

DI-0213

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	98	98	98	98	98
5	95	100	99	98	99
10	94	98	98	97	97
15	92	96	96	95	95
20	89	94	93	92	93
25	86	90	89	88	89
30	82	86	85	84	85
35	77	81	80	79	80
40	72	75	74	74	74
45	65	68	68	67	68
50	59	61	61	60	61
55	52	54	53	53	53
60	44	46	45	45	45
65	36	37	37	36	37
70	27	28	28	28	28
75	18	19	19	19	19
80	10	11	11	11	11
85	4	4	4	4	4
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	77	26.87
0-40	127	44.16
0-60	226	78.73
0-90	287	100.00
40-90	160	55.84
60-90	61	21.27
90-180	0	0.00
0-180	287	100.00

Cone Of Light Tabulation

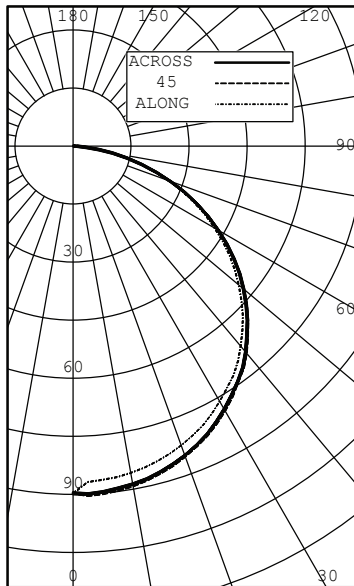
Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	6.19	5.08
6.00	2.75	7.63
8.00	1.55	10.2
10.0	0.990	12.7
12.0	0.687	15.3
14.0	0.505	17.8
16.0	0.387	20.3

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

SUNRISE™ 24 in. 6300K

DI-0214

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	90	90	90	90	90
5	87	91	90	90	90
10	86	90	89	89	89
15	84	88	88	87	87
20	82	86	85	85	85
25	80	83	83	82	82
30	76	79	79	78	78
35	72	75	75	74	74
40	67	70	70	69	69
45	62	65	64	64	64
50	56	58	58	57	58
55	49	51	51	51	51
60	42	44	43	43	43
65	35	36	36	35	35
70	26	27	27	27	27
75	18	19	19	19	18
80	10	10	10	10	10
85	4	4	4	4	4
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	71	26.22
0-40	117	43.36
0-60	212	78.19
0-90	271	100.00
40-90	153	56.64
60-90	59	21.81
90-180	0	0.00
0-180	271	100.00






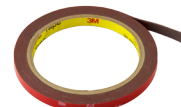
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	5.64	5.17
6.00	2.51	7.76
8.00	1.41	10.3
10.0	0.903	12.9
12.0	0.627	15.5
14.0	0.461	18.1
16.0	0.353	20.7

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

ACCESSORIES

SUNRISE™ LED Light Bars feature 9mm wet location 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-0750-**	SUNRISE Light Bar Mounting Clips	Mounts SUNRISE™ Light Bars. 1 screw included per clip. 0.6 x 0.5 x 0.4 in. (L x W x H)	
DI-1740 (9.5 ft.) DI-0775-S (100 ft.)	3M™ Adhesive Tape	3M™ 4229 adhesive tape for indoor and outdoor installation of wet location LED fixtures.	

** Products available in 10x(SUNRISE Light Bar Mounting Clips only), 25x, and 50x pack bulk quantities. Add -10(SUNRISE 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 near or around chlorinated/treated water. This product is not rated as submersible. Do not install in location where water may pool or collect.
- 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 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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