

INFINILINE® 120V LED STRIP LIGHT

SPECIFICATION SHEET

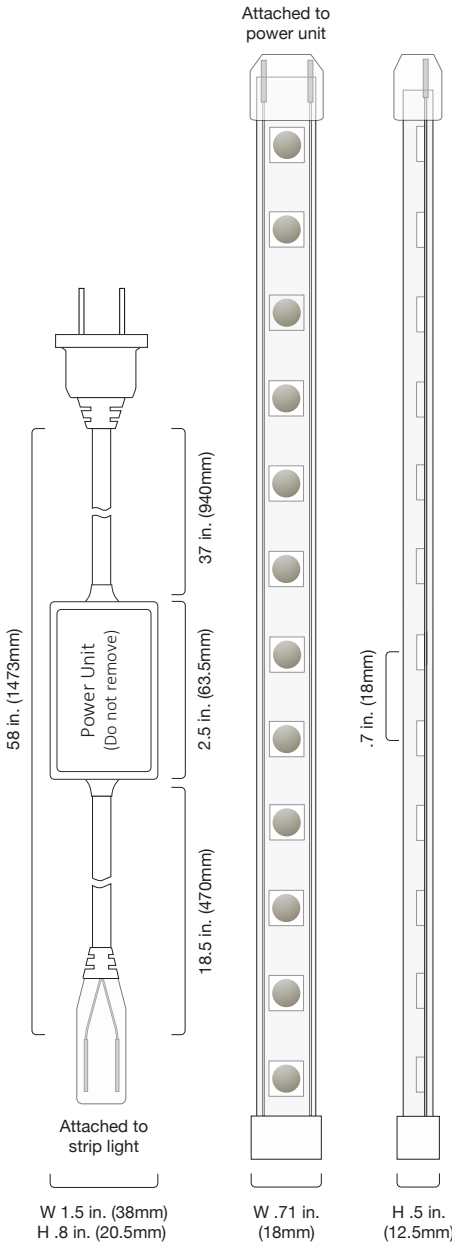
- High brightness
- Outdoor / wet location
- 164 ft. maximum run
- 3-Year limited warranty



SPECIFICATIONS

Input Voltage: 120VAC, 50/60Hz
Power Consumption: 4.21W / 0.035A per foot
 13.8W / 0.115A per meter
LED Chip Type: Epistar 5050 SMD Chip
LED Chip Beam Angle: 120°
LED Chip Spacing: 0.7 in. between centers
LED Chips: per foot 19 / per meter 60
Mounting: Includes mounting clips & screws
Field Cuttable: No
Maximum Run: 164 ft.
Connections¹: 58 in. attached AC cord

Dimmable: No
Ambient Temp²: 14° ~ 113°F (-10° ~ 45°C)
Operating Temp³: 14° ~ 120°F (-10° ~ 49°C)
Environment⁴: Outdoor / wet location
Dimensions: 0.56 x 0.28 in. (W x H) (strip only)
Certifications: ETL Listed: 4001928. Conforms to ANSI/UL Std 2388. Certified to CAN/CSA Std CAN/CSA-C22.2 No. 9.0-96.
 RoHS compliant, CE Compliant
Included Items (per meter): 3 Wet Location Mounting Clips, 6 mounting screws



Item #	CCT (Kelvin)	Lumens / ft. ⁵	CRI	Efficacy (lm/W) ⁶
DI-120V-IN30-75**	3000K	189	60.9	44.8
DI-120V-IN50-75**	5000K	211	71.2	50.1
DI-120V-INRD-**	Red (630nm)	51.3	-	12.1
DI-120V-INGN-**	Green (535nm)	105	-	24.9
DI-120V-INBL-**	Blue (475 nm)	45	-	10.6

** - Substitute with **65** for 65.6 ft. (20m) spool or **164** for 164 ft. (50m) spool

CCT (Kelvin) †	Length (m) ‡
30 3000K	1, 2, 3, 49
50 5000K	
RD Red	
GN Green	
BL Blue	

† - Choose CCT (Kelvin) from **30, 50, RD, GN, or BL**
 ‡ - Choose custom strip lengths of **1 to 49** meters (one meter increments only)

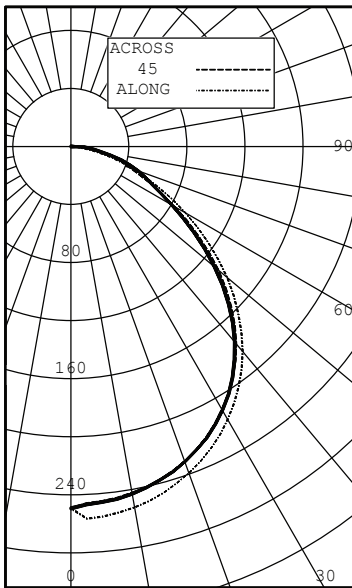
DI-120V - **IN** - **CSTM**
 CCT† Length (m)‡
Ex: DI-120V-IN30-CSTM25 (3000k, 25 meter length)

- Note¹** Do not puncture, cut, shorten, or splice (hard wire) strip light or attached AC cord. Doing so may cause electric shock and will void the UL certification. This product must be powered with a GFCI (Ground Fault Circuit Interrupter) protected circuit when installed in wet locations or outdoors. Use an additional covered GFCI receptacle lid for outdoor installations
- Note²** Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing. Exceeding the maximum ambient temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.
- Note³** Operating temperature is measured according to the minimum and maximum ambient temperature environment.
- Note⁴** Do not install in an area where water can pool or collect around the strip light. Do not install near or around chlorinated/treated water. This product is not rated as submersible. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
- Note⁵** as damage to the phosphor will occur.
- Note⁶** Lumen value measured in accordance to IES LM-79-08. LED chips have a luminous flux range with a tolerance of +/- 5%. 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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INFINILINE® 3000K
DI-120V-IN30-75**

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	249	249	249	249	249
5	256	249	245	245	246
10	253	246	242	242	243
15	247	240	238	238	238
20	239	233	230	230	231
25	229	223	221	221	222
30	217	212	209	209	209
35	202	197	195	194	194
40	184	179	177	176	176
45	163	159	156	154	154
50	141	136	133	130	129
55	116	112	107	105	104
60	91	88	83	81	80
65	67	65	61	61	62
70	47	45	44	48	50
75	29	31	33	36	36
80	15	20	22	21	21
85	5	10	13	13	13
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

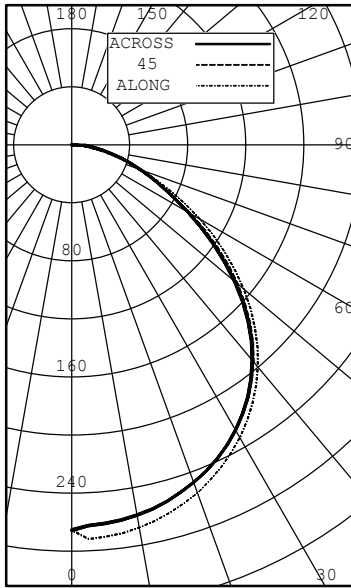
ZONE	LUMENS	% LUMINAIRE
0-30	194	30.11
0-40	316	49.09
0-60	533	82.90
0-90	643	100.00
40-90	327	50.91
60-90	110	17.10
90-180	0	0.00
0-180	643	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	15.6	5.02
6.00	6.91	7.53
8.00	3.89	10.0
10.0	2.49	12.6
12.0	1.73	15.1
14.0	1.27	17.6
16.0	0.972	20.1

INFINILINE® 5000K
DI-120V-IN50-75**

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	265	265	265	265	265
5	271	265	262	262	262
10	268	262	259	259	259
15	262	257	254	254	254
20	255	250	247	247	247
25	245	240	238	238	238
30	232	229	226	227	226
35	217	214	212	212	212
40	199	196	195	194	194
45	179	176	174	172	172
50	155	152	150	147	147
55	129	126	122	120	119
60	102	99	95	92	92
65	75	73	69	68	69
70	52	51	48	51	51
75	32	33	35	35	36
80	16	21	22	22	22
85	6	11	13	13	13
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

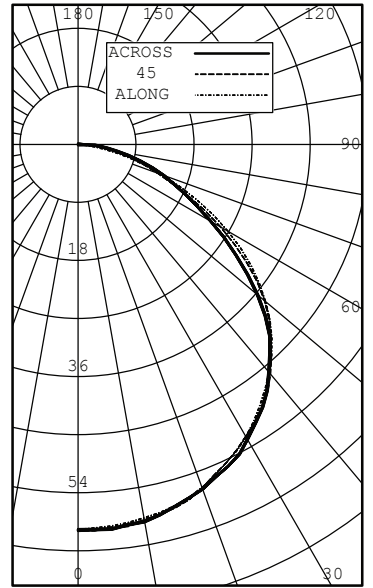
ZONE	LUMENS	% LUMINAIRE
0-30	208	29.51
0-40	341	48.39
0-60	584	82.98
0-90	704	100.00
40-90	363	51.61
60-90	120	17.02
90-180	0	0.00
0-180	704	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	16.6	5.09
6.00	7.37	7.64
8.00	4.15	10.2
10.0	2.65	12.7
12.0	1.84	15.3
14.0	1.35	17.8
16.0	1.04	20.4

INFINILINE® Red(630nm)
DI-120V-INRD-**

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	60	60	60	60	60
5	59	60	60	60	60
10	59	59	59	59	59
15	58	58	58	58	58
20	57	57	57	56	57
25	54	55	54	54	55
30	52	53	52	53	53
35	49	49	50	50	50
40	46	46	46	46	46
45	42	43	42	42	42
50	38	38	38	37	36
55	33	33	32	30	30
60	27	27	25	24	24
65	20	20	19	18	18
70	14	14	13	14	14
75	9	9	9	10	10
80	4	5	6	6	6
85	1	2	3	3	4
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	47	27.65
0-40	78	45.76
0-60	139	81.20
0-90	171	100.00
40-90	93	54.24
60-90	32	18.80
90-180	0	0.00
0-180	171	100.00

Cone Of Light Tabulation

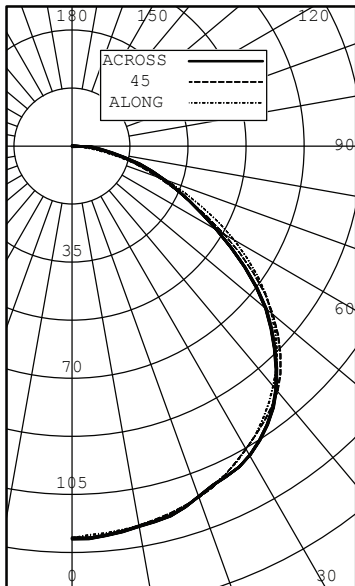
Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	3.72	5.20
6.00	1.66	7.80
8.00	0.931	10.4
10.0	0.596	13.0
12.0	0.414	15.6
14.0	0.304	18.2
16.0	0.233	20.8

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

INFINILINE® Green(525nm)

DI-120V-INGN-**

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	118	118	118	118	118
5	117	118	118	118	118
10	116	117	116	116	116
15	115	115	115	115	115
20	112	112	113	112	112
25	109	109	109	109	110
30	105	105	105	107	107
35	100	101	101	102	103
40	94	95	96	96	96
45	87	88	89	87	86
50	79	79	79	76	76
55	68	68	67	65	64
60	56	56	53	51	50
65	43	43	39	39	39
70	31	30	28	29	30
75	19	20	19	21	21
80	10	11	12	12	13
85	3	6	7	7	7
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	94	26.76
0-40	157	44.74
0-60	284	80.59
0-90	352	100.00
40-90	194	55.26
60-90	68	19.41
90-180	0	0.00
0-180	352	100.00

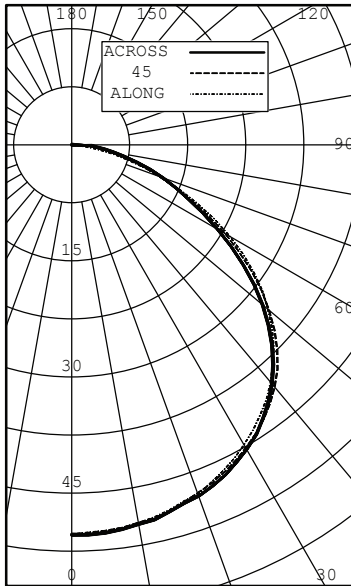
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	7.36	5.35
6.00	3.27	8.02
8.00	1.84	10.7
10.0	1.18	13.4
12.0	0.818	16.0
14.0	0.601	18.7
16.0	0.460	21.4

INFINILINE® Blue(475nm)

DI-120V-INBL-**

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	50	50	50	50	50
5	50	50	50	50	50
10	50	50	50	50	50
15	49	49	49	49	49
20	48	48	48	48	48
25	46	47	47	47	47
30	45	45	45	45	45
35	43	43	43	43	43
40	40	40	41	41	40
45	37	37	38	37	37
50	33	34	33	33	32
55	29	29	28	28	27
60	24	24	23	22	22
65	18	18	17	17	17
70	12	13	12	12	13
75	8	8	8	9	9
80	4	5	5	5	6
85	1	2	3	3	3
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	40	26.86
0-40	67	44.79
0-60	121	80.60
0-90	150	100.00
40-90	83	55.21
60-90	29	19.40
90-180	0	0.00
0-180	150	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	3.13	5.33
6.00	1.39	8.00
8.00	0.783	10.7
10.0	0.501	13.3
12.0	0.348	16.0
14.0	0.256	18.7
16.0	0.196	21.3

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

ADDITIONAL RESOURCES

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

- **INFINILINE® 120V LED STRIP 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 Electric Code and local regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- This product must be powered with a GFCI (Ground Fault Circuit Interrupter) protected circuit when installed in wet locations or outdoors.
- Do not cover strip light as covering may cause the strip light to overheat, melt, or ignite.
- Do not operate strip light while attached to plastic spool or tightly coiled. Excess heat may melt the spool and/or cause damage to the tape.
- Do not puncture, cut, shorten, or splice (hard wire) strip light or attached AC cord. Doing so causes a risk of electric shock and will void the ETL certification.
- This product and attached AC chord are not rated for in-wall installation. Do not route the AC cord or strip light through walls, doors, windows or any part of a building structure.
- Do not use if there is any damage to the strip light or AC cord insulation. Inspect periodically.
- Do not submerge strip light in liquids, or use the product in the vicinity of standing water or other liquids. Do not install near or around salt water, chlorinated water, or treated water.
- Secure this strip light using only mounting clips provided. Do not secure with staples, nails, its AC cord, or like means that may damage the insulation or permanently attach the fixture to a building structure.
- Strip light must be handled with care. Excessive handling, bending, and pressure may damage the product. Do not subject flexible lighting to continuous flexing.
- This product has an attached polarized AC plug (one blade wider than the other) as a feature to reduce the risk of electric shock. This AC plug will only fit into a polarized electrical receptacle. Do not modify the AC plug in any way. Contact a qualified, licensed electrician if the AC plug does not fit in the electrical receptacle.
- Do not exceed 164 ft. series runs (for extendable units).
- This product is not dimmable.
- Do not attempt to fix product in the field.
- When installing in wet locations or outdoors, use only outdoor extension cords such as type SW, SOW, STW, STOW, SJW, SJOW, SJTW, or SJTOW. The type is marked on the wire of the extension cord.
- Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- Lighting technology has some amount of gradual light degradation (output and/or color) over the lifespan of the products. Diode LED products are designed to minimize degradation, but some light degradation and color shift is a normal part of the life span of any LED lighting system.
- 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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