

LINAIRE™ LED WALL WASHER

SPECIFICATION SHEET

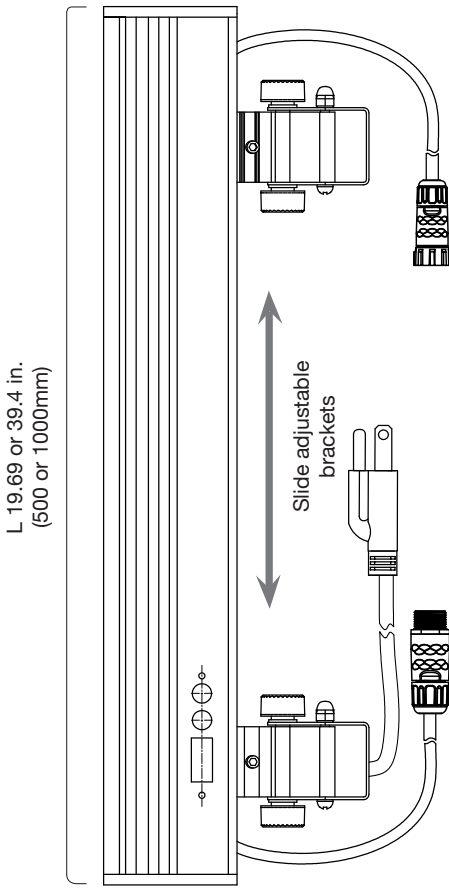
- Extruded aluminum body & tempered glass
- IP 20 dry/indoor
- 150° rotary angle
- Floor mountable
- DMX-512 controllable



SPECIFICATIONS

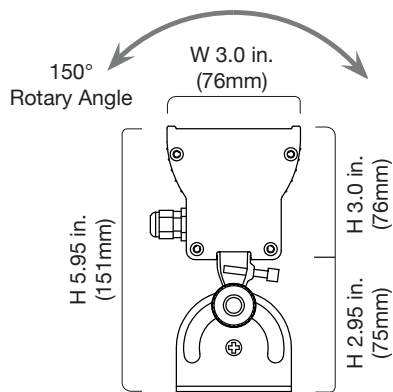
Input Voltage¹: 100-256VAC, 50/60Hz
Power Connection: AC power plug (56 in. length)
Operating Voltage: 24V DC
Power Consumption: 24.5W(20 in.), 48.5W(40 in.)
LED Chip Type: Edison
LED Chip Beam Angle: 45°
CRI: 70 (6000K)
Mounting²: (2x) removeable 150° rotary surface-mount brackets. Each bracket has (3x) 1/4 in. mounting holes (Floor mount only)
Maximum Run: 10 fixtures (expandable with use of 8-Way DMX Splitter)
Connections: 1ea. male/female XLR-3 cables (15 in. length)

Dimmable³: May be dimmed/controlled using on-board controls or with a compatible DMX-512 controller
Ambient Temp⁴: -4° ~ 104° F (-20° ~ 40° C)
Operating Temp⁵: -4° ~ 131° F (-20° ~ 55° C)
Housing / Cooling: Extruded aluminum casing; tempered glass / cooling by free air convection
Environment: IP20 dry/indoor
Dimensions: 19.69 x 3.0 x 5.95 in. (L x W x H)
 39.4 x 3.0 x 5.95 in. (L x W x H)
Weight: 5.51 lbs.(20 in.), 8.82 lbs.(40 in.)
Certifications: UL Listed (US & Canada) ANSI/UL 153, ANSI/UL 8750 - Light Emitting Diode Luminaires, Portable. E466305



Item #	CCT (Kelvin)	Lumens ⁶	LED Chips	Efficacy ⁷ (lm/W)
DI-LIN-6045-20	6000K	762	12	31.2
DI-LIN-RGB45-20	-	396	R=4, B=4, G=4	16.1
DI-LIN-RGB45-40	-	1008	R=10, B=10, G=10	20.9

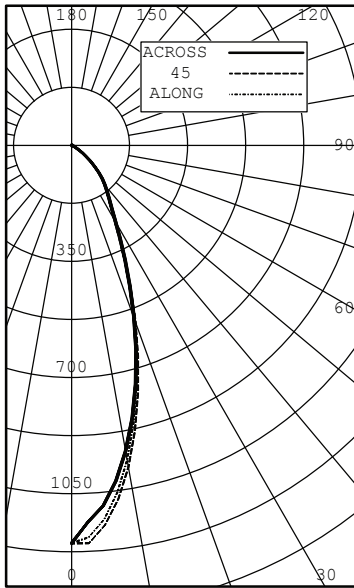
- Note**¹ Only UL Listed for connection with a 120VAC, 15- or 20-ampere branch circuit.
Note² This fixture is intended for floor mounting only. Do not mount to walls or ceilings.
Note³ Not compatible with standard High Voltage AC dimming controls.
Note⁴ Do not install product in an environment outside 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.
Note⁵ Operating temperature is measured according to the minimum and maximum ambient temperature environment.
Note⁶ Lumen value measured in accordance to IES LM-79-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
Note⁷ Efficacy value referenced from IES LM-79-08.



Item #:	Project:
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20 in. LINAIRE™ 6000K
DI-LIN-6045-20

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY		BEAM SIDE			
ANGLE	ALONG	22.5	45	67.5	ACROSS
0	1200	1200	1200	1200	1200
5	1131	1144	1150	1144	1091
10	963	976	985	984	937
15	753	763	772	782	746
20	545	553	561	572	549
25	374	376	383	396	381
30	256	260	265	274	264
35	192	197	200	204	197
40	153	156	159	161	156
45	116	118	121	122	116
50	75	76	78	79	74
55	41	41	43	44	40
60	21	21	22	22	21
65	11	11	11	11	11
70	5	5	6	6	5
75	2	2	3	3	2
80	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

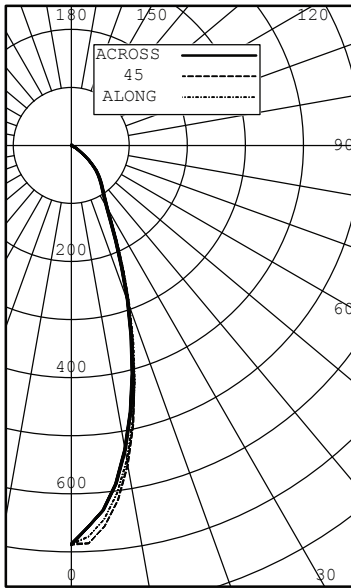
ZONE	LUMENS	% LUMINAIRE
0-30	491	64.47
0-40	617	81.01
0-60	748	98.09
0-90	762	100.00
40-90	145	18.99
60-90	15	1.91
90-180	0	0.00
0-180	762	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	75.1	2.43
6.00	33.4	3.65
8.00	18.8	4.86
10.0	12.0	6.08
12.0	8.34	7.29
14.0	6.13	8.51
16.0	4.69	9.72

20 in. LINAIRE™ RGB
DI-LIN-RGB45-20

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY		BEAM SIDE			
ANGLE	ALONG	22.5	45	67.5	ACROSS
0	687	687	687	687	687
5	647	652	659	658	631
10	550	555	560	557	532
15	421	420	420	423	407
20	291	288	285	291	283
25	189	186	185	188	182
30	125	126	126	125	122
35	96	97	96	95	94
40	78	79	79	78	77
45	61	61	62	62	60
50	41	41	42	41	39
55	22	22	23	23	21
60	11	11	11	11	11
65	5	5	5	5	5
70	3	2	2	3	2
75	1	1	1	1	1
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

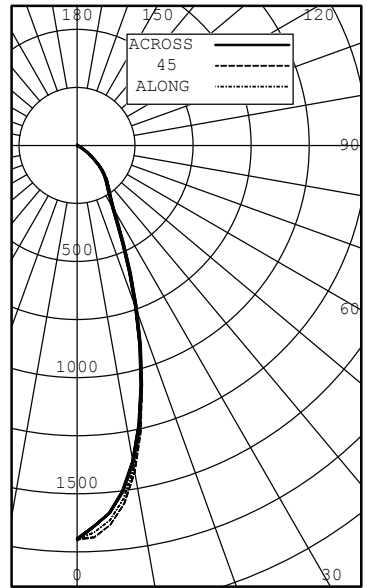
ZONE	LUMENS	% LUMINAIRE
0-30	261	65.87
0-40	322	81.24
0-60	389	98.30
0-90	396	100.00
40-90	74	18.76
60-90	7	1.70
90-180	0	0.00
0-180	396	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	43.1	2.31
6.00	19.1	3.46
8.00	10.8	4.62
10.0	6.89	5.77
12.0	4.79	6.93
14.0	3.52	8.08
16.0	2.69	9.24

40 in. LINAIRE™ RGB
DI-LIN-RGB45-40

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY		BEAM SIDE			
ANGLE	ALONG	22.5	45	67.5	ACROSS
0	1695	1695	1695	1695	1695
5	1620	1635	1641	1655	1589
10	1408	1424	1429	1440	1383
15	1076	1078	1077	1101	1069
20	737	731	726	745	744
25	455	461	463	470	470
30	306	309	314	313	310
35	243	242	246	241	236
40	202	199	205	199	194
45	160	155	161	158	153
50	106	102	108	107	103
55	58	56	59	60	57
60	29	28	29	30	29
65	14	13	14	14	14
70	6	6	6	7	6
75	2	2	2	3	2
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	663	65.78
0-40	817	81.01
0-60	990	98.24
0-90	1008	100.00
40-90	191	18.99
60-90	18	1.76
90-180	0	0.00
0-180	1008	100.00





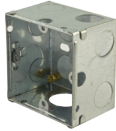
Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	106	2.39
6.00	47.2	3.58
8.00	26.5	4.78
10.0	17.0	5.97
12.0	11.8	7.17
14.0	8.67	8.36
16.0	6.64	9.56

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

DMX CONTROLLERS











The following DMX Controllers may be utilized with our DMX fixtures and accessories.

Item #	Type	Description	Image
DI-1917	DMX Wi-Fi Wall-Mount Controller	This simple and intuitive DMX controller commands up to four zones with WiFi connectivity to a mobile device.	
DI-1726	Nicolaudie STICK 1 DMX Color Controller	Our most sophisticated unit offers professional-grade DMX512 control in a user-friendly control pad.	
DI-1720	Nicolaudie STICK 2 DMX Color Controller	Sophisticated and modern touch-sensitive keypad selects mode, speed, and dimming.	
DI-1727	Nicolaudie Easy Stand Alone DMX LED Color Controller	Program lighting scenes from a computer to the independent free-standing controller.	
DI-1808-K	SQUARE-PRO Junction Box	Included with the following controllers: DMX WiFi Wall Mount Zone LED Controller, Nicolaudie STICK 1 Controller, and Nicolaudie STICK 2 Controller. Also sold separately. Features 3x 0.5 in. and 5x 0.75 in. knockouts. Dimensions: 2.83 x 1.89 x 2.83 (L x D x H)	

Note: accessories sold separately

DMX ACCESSORIES

The following DMX Accessories may be utilized with our DMX fixtures and controllers.

Item #	Type	Description	Image
DI-1918	DMX 4-Channel Decoder	Pair with a DMX controller to control solid color, RGB, and RGBW LED fixtures. Features a digital display for easy addressing.	
DI-0820 (female) DI-0821 (male)	Wireless DMX Transmitter/Receiver	Wirelessly connects DMX devices: Fixture to fixture, fixture to controller, and decoder to decoder. Features XLR-3 connections.	
DI-1804	DMX 8-Way Splitter	Amplifies and splits a DMX signal up to 8 ways. Features 1x male XLR-3 input connection, and 8x female XLR-3 output connections.	
DI-1803	DMX XLR-3 Connector Pair	Utilize this XLR-3 connector pair to create custom length DMX extensions. Sold by the pair (male/female). Male: 2.8 x .71 in. (L x Dia.). Female: 2.4 x .71 in. (L x Dia.)	
DI-1806	XLR-3 to RJ45 Adapter Connector Pair	Converts RJ45 data cables to XLR-3 DMX connections. Sold by the pair (male/female) Male & Female: 2.58 x .87 x .98 in. (L x W x H)	
DI-1809	20 ft. DMX XLR-3 Extension Cable	Creates an extension between DMX fixtures and accessories. Features XLR-3 connections. Wire: 18/3 AWG. Male connection: 2.8 x .71 in. (L x Dia.) Female: 2.4 x .71 in. (L x Dia.)	
DI-1807	RJ45 Coupler	Female-to-female accessory quickly connects two RJ45 accessories. Dimensions: 1.22 x .44 x .87 in. (L x W x H)	
DI-1805	RJ45 Splice Cable	Lead wires connect to wall-mount DMX controllers while RJ45 plug connects to DMX accessories. Dimensions: 6.5 x .4 x .6 (L x W x H)	
DI-1811	XLR-3 to RJ45 Adapter Cable Pair	Converts RJ45 port of 4-Channel DMX Decoder to a standard XLR-3 connection. Sold by the pair (male/female). Dimensions: 20 x .71 (L x Dia)	
DI-1911	RJ45 Extension Cable	Creates a 10 ft. extension between DMX fixtures and accessories utilizing RJ45 connections.	

Note: accessories sold separately

ADDITIONAL RESOURCES

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

- **LINAIRE™ LED WALL WASHER 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.
- Do not disassemble or modify this product. Doing so will void your warranty.
- This fixture is not compatible with any traditional dimming controls. Wall washers can only be controlled/dimmed with the on-board interface or with an external DMX controller. Please contact customer service for additional information.
- Ensure all adjusting screws on mounting brackets and fixtures are properly secured prior to permanent installation.
- This fixture is intended for floor mounting only. Do not mount to walls or ceilings.
- It is recommended to power this fixture by a GFCI protected circuit.
- This fixture is IP20 rated.
- This fixture is not to be used in or around chlorinated, treated or salt water due to the corrosive and degrading qualities of chlorine, saline, and other chemicals on the fixture components. Keep at least 16 feet away from pools and spas.
- 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 ambient temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.
- Ensure adequate airflow and heatsinking is considered when mounting/installing. Exceeding the maximum operating temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.
- 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 two (2) 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 acknowledgement 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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