

R1 LA Series

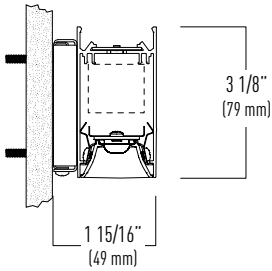
LW13-B

Wall Mount
BI-DIRECT
 Light Distribution



The LW13 LA Series is a low profile linear lighting system outfitted with precision discrete LED optics. The optical system is designed to focus direct light into specific areas of a space creating dramatic contrast without introducing high angle glare with its baffle design.

- **Extruded aluminum housing and die cast aluminum end caps**
- **Discrete optical system offers three beam patterns: 35°, 50°, 80°**
- **Tool free installation with engineered spring latch design**
- **Intelligent wireless technology inside from premier connected lighting partners**
- **Available in 3 standard paint finishes**



LW13-B / 35° Spot Black Baffle

Standard Individual Fixture Lengths*

2' (609 mm)	16 Cells
3' (914 mm)	24 Cells
4' (1219 mm)	32 Cells
5' (1524 mm)	40 Cells
6' (1828 mm)	48 Cells
7' (2133 mm)	56 Cells
8' (2438 mm)	64 Cells

* Dimensions represent fixture body length, add 1/4" for overall fixture dimension that includes both end caps

ORDERING INFORMATION / Example: LW13-B-35B-08-H40-U-D-WH-6

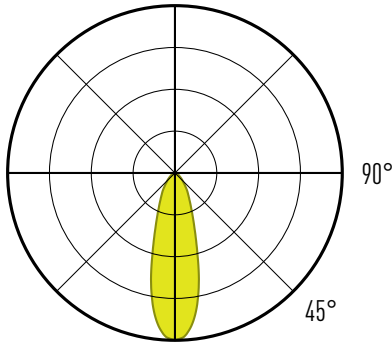
SERIES	DISTRIBUTION	DIRECT SHIELDING	INDIRECT SHIELDING	LUMENS DOWN	LUMENS UP	CRI & CCT
LW13 - Wall Mount Linear LED Luminaire System.	B - Bidirect	35B - 35° Spot Black Baffle 35W - 35° Spot White Baffle 50B - 50° Flood Black Baffle 50W - 50° Flood White Baffle 80B - 80° Wide Flood Black Baffle 80W - 80° Wide Flood White Baffle	0 - Open DG - Dust Guard ASYM - Asymmetric Optic	03 - 300 lm/ft 05 - 500 lm/ft 07 - 700 lm/ft 08 - 800 lm/ft 09 - 900 lm/ft	03 - 300 lm/ft 05 - 500 lm/ft 08 - 800 lm/ft 10 - 1000 lm/ft 13 - 1300 lm/ft	H - 90 CRI 30 - 3000K 35 - 3500K 40 - 4000K

VOLTAGE	DRIVER	CIRCUITING	FINISH
UNV - Universal 120 - 277V 50/60Hz 120V - 120V 277V - 277V	Dimming 0-10V D - Dim to 1% (Standard) DO - Dim to 1%, Fade to Off DO2 - Eldoled Solodrive, Dim to 0% LUTRON - See options on page 3	Qty of Power Circuits 1 - 1 Power 2 - 2 Power	WH - White Painted Finish SV - Silver Painted Finish BK - Black Painted Finish CC - Custom Color

OPTIONS	LINEAR ROWS
LEV - Leviton Integral Sensor WS - Wattstopper (Legrand) Integral Sensor WLX - Wavelinx (Cooper Lighting Solutions) Integral Sensor NX - NX (Hubbel) Integral Sensor NLT - nLight (Acuity Brands) Integral Sensor ATH - Athena (Lutron) Integral Sensor LV - Vive (Lutron) Integral Sensor ENL - Entlighted Integral Sensor CP - Chicago Plenum GLR - Fusing	2 - 24" 3 - 36" 4 - 48" 5 - 60" 6 - 72" 7 - 84" 8 - 96" XX - Specify run lengths in 6" increments. Consult factory for custom lengths.

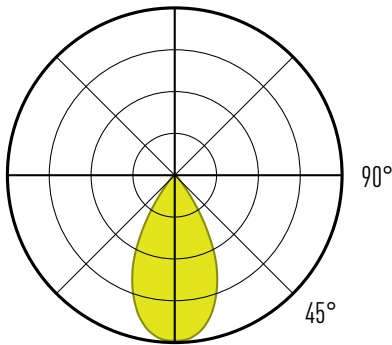
PHOTOMETRICS

*LUMEN OUTPUT MAY VARY. 3500K / 90 CRI USED FOR ABOVE RESULTS.



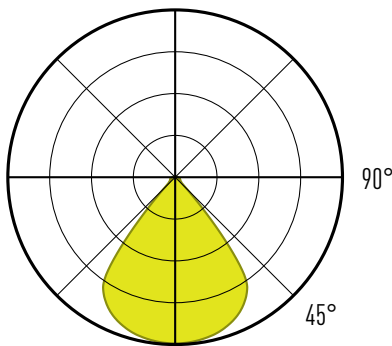
35B - 35° Spot Black Baffle			
PACKAGE	Lumens per ft	Watts per ft	Lumens per watt
03	301	2.24	134
05	500	3.98	126
07	699	5.87	119
08	798	6.90	116
09	898	7.94	113

35W - 35° Spot White Baffle			
PACKAGE	Lumens per ft	Watts per ft	Lumens per watt
03	291	1.87	156
05	491	3.45	142
07	690	5.10	136
08	801	6.10	132
09	890	6.90	129



50B - 50° Spot Black Baffle			
PACKAGE	Lumens per ft	Watts per ft	Lumens per watt
03	295	2.10	143
05	504	3.80	133
07	692	5.50	127
08	797	6.380	125
09	901	7.69	117

50W - 50° Spot White Baffle			
PACKAGE	Lumens per ft	Watts per ft	Lumens per watt
03	308	2.10	149
05	504	3.70	138
07	701	5.30	133
08	810	6.30	129
09	897	7.10	126

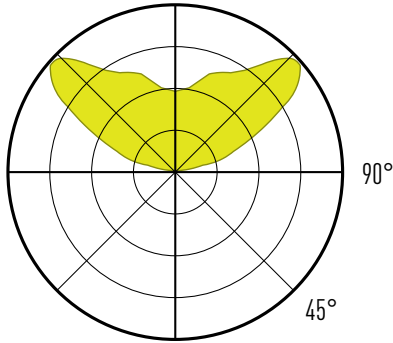


80B - 80° Spot Black Baffle			
PACKAGE	Lumens per ft	Watts per ft	Lumens per watt
03	305	2.42	126
05	494	4.16	119
07	701	6.27	112
08	796	7.31	109
09	909	8.54	107

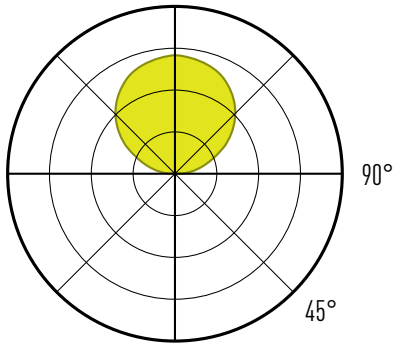
80W - 80° Spot White Baffle			
PACKAGE	Lumens per ft	Watts per ft	Lumens per watt
03	298	2.07	144
05	509	3.80	134
07	699	5.46	128
08	805	6.38	126
09	910	7.69	118

PHOTOMETRICS

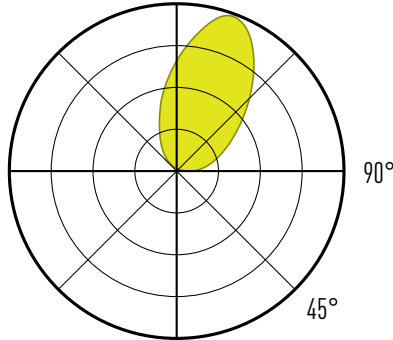
*LUMEN OUTPUT MAY VARY. 3500K / 90 CRI USED FOR ABOVE RESULTS.



BW - Batwing Optic (Indirect)			
PACKAGE	Lumens per ft	Watts per ft	Lumens per watt
03	311	2.2	139
05	511	3.67	140
08	807	5.9	138
10	1001	7.7	130
13	1311	10.1	129
15	1499	11.6	129



O - Open (Indirect)			
PACKAGE	Lumens per ft	Watts per ft	Lumens per watt
03	308	2.1	149
05	499	3.3	152
08	811	5.3	150
10	1000	6.9	145
13	1302	9.4	140
15	1508	10.6	140



ASYM - Asymmetric Optic (Indirect)			
PACKAGE	Lumens per ft	Watts per ft	Lumens per watt
03	303	2.2	135
05	499	3.7	136
08	811	6.1	134
10	1000	7.7	129
13	1302	10.3	126
15	1508	12	126

DRIVER INFORMATION

NULITE CAT#	DRIVER MANUFACTURER / SERIES	DIMMING / CONTROL PROTOCOL	DIM RANGE	NOTES/ DESCRIPTION
D	Signify Xitanium, Osram OTI	0-10v	100% -1%	Standard Nulite driver, base fixture price
D0	Signify Xitanium, Osram OTI	0-10v	100% - 1% (Steps from 1% to 0% or OFF)	Standard Nulite driver, base fixture price
D02	Eldoled Solodrive	0-10v	100% - 0%	Logarithmic Dimming Curve
L11	Lutron Hi-Lume Premier (PEQDE) Max lumen package 03	0-10v	100% - 0.1%	Hi-Lume Premier 0.1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
L15	Lutron Hi-Lume Series (LDE1)	0-10v	100% - 1%	Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
ELE	Eldoled Ecodrive	DALI	100% - 1%	Logarithmic Dimming Curve
ELS	Eldoled Solodrive	DALI	100% -0%	Logarithmic Dimming Curve

PRODUCT SPECIFICATIONS AND INFORMATION

HOUSING CONSTRUCTION

Fixture body is constructed of powder coat painted extruded aluminum and die cast aluminum end caps. Captive joining mechanism is a combination die formed sheet metal and zinc plated spring steel. All hardware is stainless steel. Wall mount brackets are die-formed cold rolled steel powder coat painted finish.

LED DISCRETE OPTICAL ASSEMBLY

Replaceable one-piece optical assembly is comprised of an LED PCBA having high power LEDs coupled to clear acrylic TIR optics (35°, 50° or 80° beam patterns) and injection molded plastic baffle assembly available in black or white. Square optical light cells are 1.5" x 1.5". The sheet metal optical assembly is connected to power via quick wire disconnects. Max length of optical assembly is 4' and minimum length is 6". Available CCT's are 3000K, 3500K, and 4000K. Also available CRI's are 80 or 90.

STANDARD DIMMING LED DRIVERS

Standard constant current integral electronic 0-10v dimming input. Two standard driver options are available. Option **D** dims to 1% and option **DO** dims to 0% or OFF (the final 1 percent is a "step"). Both options are the same price and representative of the base fixture price. Options **D** and **DO** ship with 5 wires (Line Voltage- Black and White wires, Low Voltage- Purple and Pink wires, Ground- Green wire)

DALI DRIVERS

Standard constant current DALI drivers available in either a dim to 1% (**ELE**) or dim to 0% (**ELS**). DALI fixtures ship with 5 wires (Line Voltage- Black and White wires, Low Voltage- Purple and Pink wires, Ground- Green wire).

LIGHT OUTPUT

Standard factory set light outputs are programmed to within +/- 5% of the nominal light level at 3500K 80 CRI LEDs. Light output, wattage, and efficacy will vary across different CRI's CCT's. Refer to ies files on the website for actual detailed lighting performance data.

CIRCUITING

Each luminaire may have up to 2 line voltage (Power) circuits and 2 low voltage (Control) circuits. Two power circuits are required for independent control of uplight and downlight in bi-direct luminaires, and low voltage control circuits are for independent dimming of each circuit.

Examples:

- **"1-1"**- 1 power circuit (Line Voltage) and 1 control circuit (Low Voltage) > 5 wires total (1 Black Wire "Hot", 1 White Wire "Neutral", 1 Green Wire "Ground", and 2 low voltage control wires, 1 Pink wire and 1 Purple wire)
- **"2-2"**- 2 power circuits (Line Voltage) and 1 control circuit (Low Voltage) > 9 wires total (2 Black Wires "Hot", 2 White Wires "Neutral", 1 Green Wire "Ground", and 4 low voltage control wires, 2 Pink wires and 2 Purple wires)

BATTERY PACKS

Recyclable Ni-Cad battery pack, battery run time is 90 minutes. Recharge time of 24 hours. 6W or 10W battery packs are available. To calculate Battery Lumen Output, multiply luminaire efficacy by battery wattage. (example: 120 lms/watt (**120**) x B10 Battery Wattage (**10**) = **1200** lumens of egress illumination for 90 minutes.) Battery option not available in fixtures less than 4', and other limitations apply, consult factory. Entire "direct" fixture housing is energized by battery for lengths up to 5'. Half of direct fixture is energized by battery for 6' - 8' housing lengths. Emergency or night light circuit available (requires additional power circuit). Battery fixtures ship with an additional Orange "constant hot" wire.

GENERATOR TRANSFER DEVICES

The GTD emergency lighting control device senses the loss of normal power and switches the AC driver input power connection to an unswitched, generator (or central inverter) supplied lighting circuit. GTD fixtures ship with 3 additional wires (Orange wire "constant hot", Black-Red wire "generator hot", White-Red wire "generator neutral").

FIXTURE FINISHES

Standard finish is powder coat painted white (**WH**), black (**B**) or silver (**S**). Consult factory for custom (**CC**).

INSTALLATION AND MOUNTING

The LW13-B is designed to mount to architectural wall surfaces, typically sheet rock frame-in construction. A rough-in junction box is required in addition to structural bracing within the wall for fixture support via factory provided mounting brackets. Refer to installation instructions at <https://nulite.lighting/products/lw13-bidirect> for details.

FIXTURE LENGTHS - LINEAR ROWS

Standard fixture lengths for individual or continuous row mounting are available in exact 1'(305mm) increments from 2' (610mm) to 8' (2438mm). Consult factory for custom lengths, limitations apply.

STANDARD PATTERN LAYOUTS

The LA series may be configured into geometric patterns. Mitered housings may be configured into corners, X-intersections, T-Intersections and 120 degree "Y" patterns. Standard mitered angles of 45°, 60°, 90°, 120°, and 135° can be utilized to create an unlimited array of designs and layouts. Consult factory for custom angles. The submittal drawing (shop drawing) furnished by Nulite will adequately detail these configurations and sign-off is required to initiate production.

WARRANTY

5-year limited warranty on LED and driver from date of shipment. Refer to the full warranty details on <https://nulite.lighting/products/lw13-bidirect>.

WEIGHT

Fixtures are 1.5 lbs/ft, Driver box weights vary, consult factory.

APPROVALS

ETL listed, conforms to UL Standard 1598 / 8750 and CSA Standard C22.2, indoor dry/damp locations.

TESTING PROTOCOLS AND DATA

All of Nulite's LED components have been tested under **LM-80** guidelines insuring 6000 hours of luminous flux data. Additionally Nulite can supply **LM-79** data on all luminaires. This data includes luminous flux, electrical power, efficiency, chromaticity as well as the diffusion of luminous intensity.

LUMEN MAINTENANCE

90% of initial light output (L90) at 100,000+ hours, 70% of initial light output (L70) at 200,000+ hours.