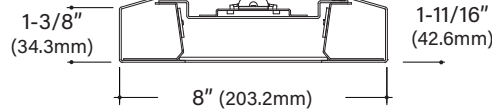




LINERO L8DI-A-BW

Dual Source Linear



Key Features

- One piece die-formed 18 gauge steel housing
- Highly reflective die-formed white painted steel reflector
- Die-cast aluminum end caps
- LINERO offered with a 5-year limited warranty that covers LED, driver and fixture
- UL and cUL Listed
- Approved for dry/damp location
- Maximum fixture weight is 17 lbs per standard 4' fixture
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: L8DI-A-BW-835HO-835-26'-AC48G1-U-OL2-1-0-W

L8DI-A-BW

HOUSING - DIRECT OUTPUT - INDIRECT OUTPUT - LENGTH - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS - CONTROLS

L8DI-A-BW	-----	-----	-----
HOUSING	DIRECT CRI, CCT & OUTPUT ¹	INDIRECT CRI, CCT & OUTPUT ¹	LENGTH ²
L8DI-A-BW - LINERO 8 with Direct Satine Lens and Indirect Batwing <i>Shielding pg. 2</i>	_27_ - 2700K _30_ - 3000K _35_ - 3500K _40_ - 4000K CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 2</i>	_27_ - 2700K _30_ - 3000K _35_ - 3500K _40_ - 4000K CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 3</i>	_ _ - Individual Fixture _ _ - Continuous Row <i>Length and Pattern pg. 3</i>
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MOUNTING ³	VOLTAGE	DRIVER	CIRCUITING
AC_ _G_ - AC to Grid AC_ _JB - AC to J Box AC_ _ST - AC to Structure AC5_ _G_ - 5" Non-Power Canopy AC5_ _JB - 5" Non-Power Canopy SQ_ _G_ - 5" Square Canopy SQ_ _JB - 5" Square Canopy WA - Wall Mount <i>Mounting pg. 4</i>	U - Universal <i>(120 thru 277V)</i> 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 4</i>	FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED Optotronic (1%, 0-10v) EE1 - eldoLED ECODErive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) OL5 - eldoLED Optotronic (1%, 0-10v, AUX) OD1 - eldoLED Optotronic (1%, 0-10v, DEXAL) LH1 - Lutron Hi-lume (1%, EcoSystem) PS1 - Advance Xitanium (50%/100%) <i>Driver pg. 4</i>	1 - Single Circuit 2 - Dual Circuit M - Multi Circuit E - Emergency <i>(entire fixture)</i> N - Night Light <i>(entire fixture)</i> <i>Circuiting pg. 5</i>
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BATTERY & EMERGENCY ⁴	FINISH	CONTROLS ⁵	
0 - None _FSB - Factory Select Battery _FSG - Factory Select ALCR _GI - Iota ETS DR _GB - Bodine GTD _ILL - Iota 10w Integral _PLL - Bodine 10w Integral Lithium _E - Emergency circuit section _N - Night Light circuit section _L - Life Safety circuit section <i>Battery and Emergency pg. 5</i>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	DLMFC - Wattstopper DLM (wired) EASYS - Philips EasySense (wireless) SNSLM - Encelium Sensillum (wireless) WVLX - Eaton WaveLinx (wireless) VDO - Lutron Vive Sensor (wireless) VRF - Lutron Vive Connected (wireless) ENL - Enlighted (wireless) <i>Controls pg. 6</i>	

¹When specifying SOURCE the first _ is for specifying either 8 - 80CRI, 9 - 90CRI. The ending _ _ are for specifying output, example HO - High Output, please contact factory for more information. ²Individual fixtures come in 4', 6' & 8' lengths. Continuous row come in 4' or 6' increments. ³Specify AC Cable length, standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example AC48G1. ⁴Enter quantity for Battery and Emergency, Example 2PL. ⁵Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 5 for driver options and more information.

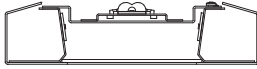
Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



Housing

DUAL OUTPUT

L8DI-A-BW



Direct Source: Static White¹

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 90 CRI = R9≥50

Custom Output- Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL835950)	<i>Specify lumens between standard offering listed below. Lumens are specified per color temp</i>
CW _____	Specify CRI, CCT and desired wattage (i.e. CW9409.5)	<i>Specify watts between standard offering listed below</i>

Direct 80 CRI

	Color	Lumens <i>per foot</i>	Shielding A	
			Satine Watts/ft	LPW
830LO	3000K	400	3.9	103.0
830	3000K	600	5.9	102.1
830HO	3000K	850	8.4	101.0
830VHO	3000K	1250	12.7	98.7
835LO	3500K	400	3.6	110.1
835	3500K	600	5.5	109.0
835HO	3500K	850	7.8	108.6
835VHO	3500K	1250	11.8	106.3
840LO	4000K	400	3.6	111.0
840	4000K	600	5.5	110.0
840HO	4000K	850	7.8	109.6
840VHO	4000K	1250	11.7	107.2

Direct 90 CRI

927LO	2700K	400	5.7	70.6
927	2700K	600	8.6	70.1
927HO	2700K	850	12.4	68.6
930LO	3000K	400	5.3	75.7
930	3000K	600	8.0	75.2
930HO	3000K	850	11.5	73.7
930VHO	3000K	1250	17.5	71.6
935LO	3500K	400	5.1	79.0
935	3500K	600	7.6	78.7
935HO	3500K	850	11.0	77.1
935VHO	3500K	1250	16.7	75.0
940LO	4000K	400	5.1	77.9
940	4000K	600	7.7	77.4
940HO	4000K	850	11.2	75.9
940VHO	4000K	1250	16.9	73.8

¹LPW and watts/ft based off 48" fixture size.

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Indirect Source: Static White¹

Indirect 80 CRI

	Color	Lumens per foot	Shielding BW Batwing Watts/ft	LPW
830LO	3000K	400	3.3	122
830SO	3000K	600	4.5	135
830HO	3000K	850	6.3	135
830VHO	3000K	1250	9.1	138
835LO	3500K	400	3.2	126
835SO	3500K	600	4.3	139
835HO	3500K	850	6.1	139
835VHO	3500K	1250	8.8	142
840LO	4000K	400	3.2	126
840SO	4000K	600	4.3	139
840HO	4000K	850	6.1	139
840VHO	4000K	1250	8.8	142

Indirect 90 CRI

927LO	2700K	400	3.7	107
927SO	2700K	600	5.4	111
927HO	2700K	850	7.6	111
927VHO	2700K	1250	11.1	112
930LO	3000K	400	3.4	117
930SO	3000K	600	4.9	122
930HO	3000K	850	7.0	122
930VHO	3000K	1250	10.2	123
935LO	3500K	400	3.4	116
935SO	3500K	600	5.0	121
935HO	3500K	850	7.0	121
935VHO	3500K	1250	10.2	122
940LO	4000K	400	3.4	116
940SO	4000K	600	5.0	121
940HO	4000K	850	7.0	121
940VHO	4000K	1250	10.2	122

¹LPW and watts/ft based off 48" fixture size.

Length

- All individual units cannot be joined, end caps are factory installed and cannot be removed
- Add 3/8" for each end cap or 3/4" to the overall length of the row
- Aperture sizes vary, 4' fixtures have a single 45-7/16" long aperture, 6' fixtures have two 33-11/16" long apertures, and 8' fixtures have two 45-7/16" long apertures

4	6	8	—
Individual Fixture	Individual Fixture	Individual Fixture	Continuous Run
48" (1,219mm)	72" (1,829mm)	96" (2,438mm)	Continuous rows available in 2' increments, starting at 4'
Specify to the 2', starting at 4' >>>			

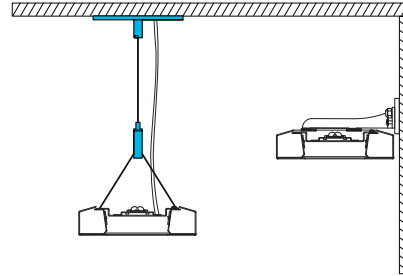


Mounting

- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240" or 350"
- Adjustable aircraft cable mounts on 4'-0" (1,219mm), 6'-0" (1,829mm) and 8'-0" (3,438mm) centers
- End caps and standard white power cord attached at factory
- Aircraft Cable supplied with 5" (127mm) power and 2" (51mm) non-power canopies

AC_G1	Adjustable AC to 1" (15/16") T-Bar
AC_G9	Adjustable AC to 9/16" T-Bar
AC_GS	Adjustable AC to Screw Slot T-Bar
AC_JB	Adjustable AC to Junction Box
AC_ST	Adjustable AC to Structure
AC5_G	5" (127mm) Non-Power Canopy
AC5_JB	5" (127mm) Non-Power Canopy
SQ_G	5" (127mm) Square Canopy
SQ_JB	5" (127mm) Square Canopy
WA	Wall Mount

- Canopies match fixture finish, power cords are white or black depending on fixture finish. See Finish section for additional details
- Approved for dry/damp location unless otherwise noted
- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 17 lbs. per 4' fixture



Voltage

- Some LINERO configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some LINERO configurations will not accommodate all driver options; consult with factory

0-10V Drivers

FSD	Factory Select Driver (1%, 0-10v)
PL2	Signify Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0% Linear
OL5	eldoLED Optotronic 1%, 0-10v, AUX

DALI Drivers

EE3	eldoLED ECOdrive .1%, DALI (logarithmic)
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)
OD1	eldoLED Optotronic 1%, DEXAL
OD2	eldoLED Optotronic 1%, DALI 2 Channel

Lutron Drivers

LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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Alternate Drivers

PS1	Signify Advance Xitanium Step Dimming 50%/100%
PR1	Philips Advance Xitanium SR, requires EASYS, VDO or VRF
OD1	eldoLED Optotronic 1%, DEXAL
EH1	ELV 120v only, 0-10v universal



How to specify Circuiting, Battery and Emergency

- 1**
- Select fixture circuiting from options below
 - Some LINERO configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
2	Dual Circuit
M	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only

- 2** + **3**
- Battery and emergency section options are available in addition to fixture circuit
 - Select battery and emergency section options below; factory shop drawing required
 - Some LINERO configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

- 0** No battery or specific emergency section required

Battery

- Select battery section type if required, indicate total QTY. *Example 2PL*
- 90 minute battery runtime; test button is integral to fixture
- For more battery options available, see Pinnacle Resource Guide

0	No Battery
_FSB	Factory Select Battery (10w option)
_FSBST	Factory Select Battery (10w, Self Testing)
_ILL	lota 10w Integral Lithium, Self Testing
_IRC	lota 10w Remote
_PRH	Bodine 20w Remote
_PLL	Bodine 10w Integral Lithium, Self Testing

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- $92.3 \text{ (LPW)} \times 10 \text{ (watts)} = 923 \text{ battery lumen output}$

Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

_FSG	Factory Select Automatic Load Control Relay (ALCR), UNV
_GI	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV
_GB	Bodine GTD, Generator Transfer Device, 120v or 277v
_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE

Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section Ordering Code: 1-1PL1E
- Multi circuit, (2) 10w battery, (2) emergency sections Ordering Code: M-2PL2E
- Single circuit, (1) night light section Ordering Code: 1-1N

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1PLL
- Emergency only, 10w Integral Battery Ordering Code: E-1PLL
- Single circuit, GTD required Ordering Code: 1-1GB

Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White (<i>white cord/white canopy</i>)
S	Metallic Silver (<i>white cord/silver canopy</i>)
BL	Textured Black (<i>black cord/black canopy</i>)
BR	Bronze (<i>white cord/bronze canopy</i>)
GR	Graphite (<i>white cord/graphite canopy</i>)
CC	Custom Color (<i>white cord/color match canopy</i>)



Controls

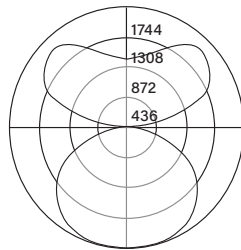
- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; commissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
- Contact factory for any non-standard configurations for layout, placement, or EM options
- One drop pers sensor typical, consult factory for more information

	Solution	Components	Network/Sensor	Connection	Required Drivers	Limitations
DLMFC	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, one RJ45 ports	OL2, OL4	Not available with Battery
EASYS	Philips EasySense	SNS-210	Daylight/PIR Occupancy	Wireless to switches	PR1	Not available with 347 volt
SNSLM	Encelium Sensilum	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	Not available with 347 volt
WLVX	Eaton WaveLinx	SWPD1, MSP3IVMVDC1	WaveLinx WCL, Daylight	Wireless	Any 0-10v	Not available with 347 volt
VDO	Lutron Vive Sensor	DFCSJ-OEM-OCC	Vive, Daylight/PIR Occupancy	Wireless	OD1, PR1	Not available with 347 volt
VRF	Lutron Vive Connected	DFCSJ-OEM-RF	Vive	Wireless	OD1, PR1	Not available with 347 volt
ENLI	Enlighted IOT	SU-5E-IOT, CU-4E	Enlighted, Daylight/PIR Occupancy	Wireless	Any 0-10v	Not available with 347 volt
ENLC	Enlighted Connected Lighting	SU-5E-CL, CU-4E	Enlighted, Daylight/PIR Occupancy	Wireless	Any 0-10v	Not available with 347 volt

Photometrics

Satine Lens

Test # SCALED FROM ITL90512 & ITL94661
 Catalog # L8DI-A-BW-840VHO-840VHO-4
 Lumens 9938 lm
 Watts 84 W
 Efficacy 122.5 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1744	1744	1744	1744	1744
5	1738	1738	1739	1741	1742
15	1681	1675	1698	1711	1709
25	1558	1558	1601	1631	1639
35	1377	1386	1443	1485	1498
45	1152	1165	1222	1267	1282
55	893	905	952	985	1000
65	610	618	645	667	677
75	319	322	334	344	346
85	74	79	79	77	78
90	9	108	303	153	155
95	87	171	267	247	232
100	173	267	445	436	402
105	263	356	588	668	641
115	439	521	772	1038	1100
125	578	677	933	1202	1294
135	680	792	1077	1320	1409
145	778	862	1110	1344	1435
155	866	913	1060	1194	1250
165	932	950	1008	1060	1081
175	964	967	973	978	982
180	967	967	967	967	967

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29615	28678	29117
55	28237	26499	26619
65	26079	22914	22593
75	22084	17113	16129
85	14623	7676	6348

Photometry based on ITL report ITL93486. For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

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L8DI_A_BW_LED_SPEC_MARCH2025



Approvals & Certifications

Construction: One piece die-formed 18 gauge steel housing in a 6-7/8" (174mm) by 1-11/16" (42mm) profile with a 1-3/8" (34mm) side profile. Standard 4'-0" (1,219mm), 6'-0" (1,828mm) and 8'-0" (3,438mm) fixtures can be joined to create continuous runs. Standard high reflectance die-formed white painted aluminum.

Shielding: Direct: white satine lens with matte finish. Indirect: 40/60 distribution uses a batwing diffuser, 70/30 distribution uses a perforated reflector and clear dust guard, 100 direct distribution uses a steel top cover. 4' fixtures have a single 45-7/16" long aperture, 6' fixtures have two 33-11/16" long apertures, and 8' fixtures have two 45-7/16" long apertures.

Mounting: Adjustable aircraft cable, or wall mounts available. Air Craft Cable mounts on 4'-0" (1,219mm), 6'-0" (1,828mm) and 8'-0" (3,438mm) centers. Refer to installation instructions for appropriate ceiling detail. Maximum fixture weight is 17 lbs. per 4' fixture.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection: L70 lifetime - 114,000 hours L90 lifetime - 34,000 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Lumen Output: Two lumen packages available. Standard and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 90 CRI = R9≥50. Fixture performance and photometric data based on 8' configuration for worst case input voltage. Published lumen or wattage data based on OL1 configuration.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some LINERO configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Osram 0-10V, 1% = PL2. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range for 40%, 70% and 100%: -23F/-30C to 125F/52C For more driver options, see Pinnacle Resource Guide. Some LINERO configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit (M), Emergency circuit (E), Night Light circuit (N) or Life Safety (L). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some LINERO configurations will not accommodate all circuiting options; consult with factory.

rations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish, consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

Controls: DLM utilizes wired network connections for digital control through switching and dimming with 0-10v LED drivers. nLight Air rIO module provides wireless control using eldoLED LED drivers. nLight Air rES7 sensor provides wireless control, daylight harvesting and occupancy detection with PIR or PDT using eldoLED LED drivers. EasySense sensor provides daylight harvesting and PIR occupancy detection using the SR driver; the Philips app provides advanced configurations. ENCELIUM SensiLUM sensor provides wireless control, daylight harvesting and PIR occupancy; driver data is available when using the DEXAL LED driver. WaveLinx Connected Lighting sensor provides wireless control and daylight harvesting using 0-10V LED drivers. Lutron Vive sensor provides wireless control, daylight harvesting and PIR occupancy detection using DEXAL or SR LED drivers. Lutron Vive module provides wireless control using DEXAL or SR LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for IOT platform using 0-10v LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for Connected platform using 0-10v LED drivers.

Labels: UL and cUL 1598 listed. Approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 17 lbs (per 4' fixture).

Buy American Act Compliant

Warranty: LINERO LED offered with a 5-year limited warranty. Covers LED, driver and fixture.