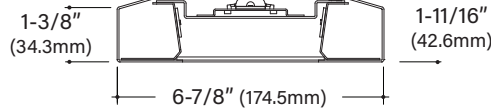




# LINERO L6DI-A-BW

## 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 #: L6DI-A-BW-835HO-835-26'-AC48G1-U-OL2-1-0-W

### L6DI-A-BW

HOUSING	DIRECT OUTPUT	INDIRECT OUTPUT	LENGTH	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS
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L6DI-A-BW	-----	-----	----
HOUSING	DIRECT CRI, CCT & OUTPUT <sup>1</sup>	INDIRECT CRI, CCT & OUTPUT <sup>1</sup>	LENGTH <sup>2</sup>
<b>L6DI-A-BW</b> - LINERO 6 with Direct Satine Lens and Indirect Batwing <i>Shielding pg. 2</i>	<u>27</u> - 2700K <u>30</u> - 3000K <u>35</u> - 3500K <u>40</u> - 4000K <b>CL</b> ----- - Custom Lumens <b>CW</b> ----- - Custom Watts <i>Lumen Output pg. 2-3</i>	<u>27</u> - 2700K <u>30</u> - 3000K <u>35</u> - 3500K <u>40</u> - 4000K <b>CL</b> ----- - Custom Lumens <b>CW</b> ----- - Custom Watts <i>Lumen Output pg. 2-4</i>	__ - Individual Fixture __ - Continuous Row <i>Length pg. 4</i>

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MOUNTING <sup>3</sup>	VOLTAGE	DRIVER	CIRCUITING
<b>AC</b> __ <b>G</b> - AC to Grid <b>AC</b> __ <b>JB</b> - AC to J Box <b>AC</b> __ <b>ST</b> - AC to Structure <b>AC5</b> __ <b>G</b> - 5" Non-Power Canopy <b>AC5</b> __ <b>JB</b> - 5" Non-Power Canopy <b>SQ</b> __ <b>G</b> - 5" Square Canopy <b>SQ</b> __ <b>JB</b> - 5" Square Canopy <b>WA</b> - Wall Mount <i>Mounting pg. 4</i>	<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <i>Voltage pg. 5</i>	<b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>OL5</b> - Osram (1%, 0-10v, AUX) <b>OD1</b> - Osram (1%, 0-10v, DEXAL) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>PS1</b> - Advance Xitanium (50%/100%) <b>OL2</b> - Osram (1%, 0-10v) <b>ND</b> - Non-Dimming <i>Driver pg. 5</i>	<b>1</b> - Single Circuit <b>2</b> - Dual Circuit <b>M</b> - Multi Circuit <b>E</b> - Emergency (entire fixture) <b>N</b> - Night Light (entire fixture) <i>Circuiting pg. 5</i>

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BATTERY & EMERGENCY <sup>4</sup>	FINISH	CONTROLS <sup>5</sup>
<b>0</b> - None <b>E</b> - Emergency circuit section <b>N</b> - Night Light circuit section <b>L</b> - Life Safety circuit section <b>G</b> - Bodine GTD <b>ILL</b> - Iota 10w Integral <b>PLL</b> - Bodine 10w Integral Lithium <i>Battery and Emergency pg. 5</i>	<b>W</b> - White <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 6</i>	<b>DLMFC</b> - Wattstopper DLM (wired) <b>EASYS</b> - Philips EasySense (wireless) <b>SNSLM</b> - Encelium Sensilum (wireless) <b>WVLX</b> - Eaton WaveLinX (wireless) <b>VDO</b> - Lutron Vive Sensor (wireless) <b>VRF</b> - Lutron Vive Connected (wireless) <b>ENL</b> - Enlighted (wireless) <i>Controls pg. 6</i>

<sup>1</sup>When 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. <sup>2</sup>Individual fixtures come in 4', 6' & 8' lengths. Continuous rows available in 2' increments, starting at 4'. <sup>3</sup>Specify AC Cable length, standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example AC48G1. <sup>4</sup>Enter quantity for Battery and Emergency, Example 2PL.<sup>5</sup>Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 5 for driver options and more information.

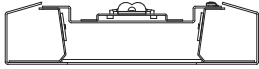
Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



## Housing

### DUAL OUTPUT

L6DI-A-BW



## Direct Source: Static White<sup>1</sup>

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61

## Custom Output- Lumens OR Wattage

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL835950)	<i>Specify lumens between standard offering listed below. Lumens are specified per color temp</i>
<b>CW</b> _____	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 <b>A</b>	
			Satine <i>Watts/ft</i>	LPW
<b>830LO</b>	3000K	400	4.2	96.2
<b>830</b>	3000K	600	6.2	96.0
<b>830HO</b>	3000K	850	8.9	95.1
<b>830VHO</b>	3000K	1250	13.5	92.9
<b>835LO</b>	3500K	400	4.0	99.8
<b>835</b>	3500K	600	6.0	99.4
<b>835HO</b>	3500K	850	8.6	98.5
<b>835VHO</b>	3500K	1250	13.0	96.3
<b>840LO</b>	4000K	400	4.0	100.2
<b>840</b>	4000K	600	6.0	99.9
<b>840HO</b>	4000K	850	8.6	99.0
<b>840VHO</b>	4000K	1250	12.9	96.7

## Direct 90 CRI

<b>927LO</b>	2700K	400	5.0	80.3
<b>927</b>	2700K	600	7.5	80.2
<b>927HO</b>	2700K	850	10.8	78.9
<b>930LO</b>	3000K	400	4.8	83.0
<b>930</b>	3000K	600	7.2	83.0
<b>930HO</b>	3000K	850	10.4	81.7
<b>935LO</b>	3500K	400	4.7	84.7
<b>935</b>	3500K	600	7.1	84.7
<b>935HO</b>	3500K	850	10.2	83.5
<b>940LO</b>	4000K	400	4.8	84.2
<b>940</b>	4000K	600	7.1	84.0
<b>940HO</b>	4000K	850	10.3	82.8

<sup>1</sup>LPW and watts/ft based off 96" fixture size.

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Indirect Source: Static White<sup>1</sup>

Indirect 80 CRI

	Color	Lumens <i>per foot</i>	Shielding	
			BW Batwing <i>Watts/ft</i>	LPW
<b>830LO</b>	3000K	400	3.1	129.9
<b>830</b>	3000K	600	4.4	135.5
<b>830HO</b>	3000K	850	6.4	133.8
<b>830VHO</b>	3000K	1250	9.6	130.2
<b>835LO</b>	3500K	400	3.0	134.5
<b>835</b>	3500K	600	4.3	140.2
<b>835HO</b>	3500K	850	6.1	138.7
<b>835VHO</b>	3500K	1250	9.3	135.1
<b>840LO</b>	4000K	400	3.0	135.1
<b>840</b>	4000K	600	4.3	140.8
<b>840HO</b>	4000K	850	6.1	139.3
<b>840VHO</b>	4000K	1250	9.2	135.7

Indirect 90 CRI

<b>927LO</b>	2700K	400	3.5	113.4
<b>927</b>	2700K	600	5.3	112.5
<b>927HO</b>	2700K	850	7.6	111.3
<b>930LO</b>	3000K	400	3.6	110.8
<b>930</b>	3000K	600	5.2	116.3
<b>930HO</b>	3000K	850	7.4	115.3
<b>935LO</b>	3500K	400	3.5	113.2
<b>935</b>	3500K	600	5.0	118.9
<b>935HO</b>	3500K	850	7.2	117.6
<b>940LO</b>	4000K	400	3.6	112.4
<b>940</b>	4000K	600	5.1	118.0
<b>940HO</b>	4000K	850	7.3	116.7

<sup>1</sup>LPW and watts/ft based off 96" 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' >>>			

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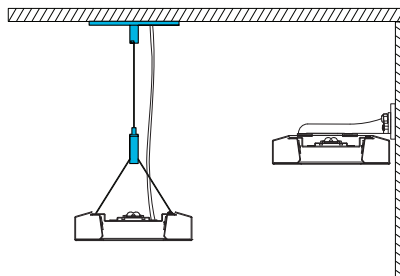


## Mounting

- 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" (3438.4mm) centers
- End caps and standard white power cord attached at factory
- Aircraft Cable supplied with 5" (127mm) power and 2" (51mm) non-power canopies

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

- Canopies match fixture finish, power cords are white, grey, 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

<b>U</b>	Universal
<b>1</b>	120 volt
<b>2</b>	277 volt
<b>3</b>	347 volt

## Driver

- Standard Driver Option = PL2
- 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

<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>OL4</b>	Osram Optotronic 347v, 1%, 0-10v (requires 347v)
<b>OL5</b>	Osram Optotronic 1%, 0-10v, AUX
<b>OD1</b>	Osram Optotronic 1%, DEXAL
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v Logarithmic
<b>EE6</b>	eldoLED ECOdrive 1%, for nLight Air Wireless
<b>ES1</b>	eldoLED SOLOdrive 0%, DALI Logarithmic
<b>ES6</b>	eldoLED SOLOdrive 0%, for nLight Air Wireless
<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
<b>PR1</b>	Advance Xitanium SR, 5%
<b>OL2</b>	Osram Optotronic 1%, 0-10v
<b>ND</b>	Non-Dimming



## 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

<b>1</b>	Single Circuit
<b>2</b>	Dual Circuit
<b>M</b>	Multi Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	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

<b>0</b>	No battery
<b>_ILL</b>	Iota 10w Integral <i>(self testing)</i>
<b>_PLL</b>	Bodine 10w Integral Lithium <i>(self testing)</i>

#### For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 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

<b>_E</b>	Emergency circuit section
<b>_N</b>	Night Light circuit section
<b>_L</b>	Life Safety circuit section NO THROUGH WIRE
<b>_G</b>	Bodine GTD, Generator Transfer Device section

#### Battery OR Emergency Ordering Examples

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

#### 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

### 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

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



## Controls

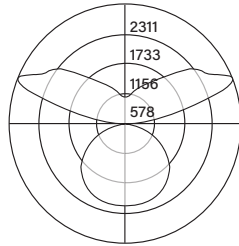
- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; commissioning by others
- Controls can 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 per sensor typical, consult factory for more information

	Solution	Components	Network/Sensor	Connection	Required Drivers	Limitations
<b>DLMFC</b>	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, one RJ45 ports	OL2, OL4	Not available with Battery
<b>EASYS</b>	Philips EasySense	SNS-200	Daylight/PIR Occupancy	Wireless to switches	PR1	Not available with 347 volt
<b>SNSLM</b>	Encelium Sensilium	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	Not available with 347 volt
<b>WLWX</b>	Eaton WaveLinx	SWPD1, MSP3IVMVC1	WaveLinx WCL, Daylight	Wireless	Any 0-10v	Not available with 347 volt
<b>VDO</b>	Lutron Vive Sensor	DFCSJ-OEM-OCC	Vive, Daylight/PIR Occupancy	Wireless	OD1, PR1	Not available with 347 volt
<b>VRF</b>	Lutron Vive Connected	DFCSJ-OEM-RF	Vive	Wireless	OD1, PR1	Not available with 347 volt
<b>ENLI</b>	Enlighted IOT	SU-5E-IOT, CU-4E	Enlighted, Daylight/PIR Occupancy	Wireless	Any 0-10v	Not available with 347 volt
<b>ENLC</b>	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 # ITL90511-GONIOPHOTOMETRY  
 Catalog # L6DI-A-BW-840VHO-840VHO-4  
 Lumens 9855 lm  
 Watts 98.9 W  
 Efficacy 99.6 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1709	1709	1709	1709	1709
5	1701	1702	1703	1704	1705
15	1645	1638	1656	1667	1666
25	1523	1516	1553	1576	1582
35	1342	1345	1391	1425	1437
45	1118	1125	1174	1210	1222
55	865	871	911	937	947
65	588	593	617	634	639
75	303	309	318	324	326
85	68	70	73	73	72
90	0	26	147	42	38
95	42	129	884	385	320
100	143	203	1045	1655	1199
105	223	306	664	1980	2311
115	299	369	678	1567	1869
125	375	435	708	1247	1550
135	420	488	722	974	1101
145	472	524	676	826	887
155	518	542	608	670	698
165	545	548	557	565	568
175	549	549	549	549	549
180	261	261	261	261	261

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4109	4109	4095
55	3962	3945	3945
65	3718	3671	3671
75	3207	3207	3169
85	2381	2381	2381

For all available IES files, please visit our website at [pinnacle-ltg.com](http://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

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## 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%. All 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. 80 CRI = R9≥19 and 90 CRI = R9≥61. 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, 10% = OL2. 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.

**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 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.