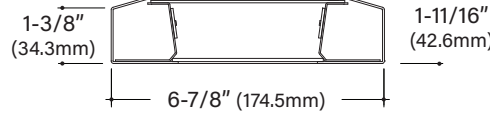


# LINERO L6DI-A

## Single 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-70-835HO-26'-AC48G1-U-OL2-1-0-W

### L6DI-A

HOUSING - DISTRIBUTION - CRI, CCT & OUTPUT - LENGTH - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS - CONTROLS




L6DI-A	---	-----	-----
HOUSING	DISTRIBUTION	CRI, CCT & OUTPUT <i>QS</i> <sup>1</sup>	LENGTH <sup>2</sup>
<b>L6DI-A</b> - LINERO 6 with Satine Lens <i>QS</i> <i>Shielding pg. 2</i>	<b>40</b> - 40% Direct / 60% Indirect <i>QS</i> <b>70</b> - 70% Direct / 30% Indirect <i>QS</i> <b>100</b> - 100% Direct <i>QS</i> <i>Shielding pg. 2</i>	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <i>Lumen Output pg. 2-4</i>	<b>---</b> - Individual Fixture <i>QS</i> <b>---</b> - Continuous Row <i>QS</i> <i>Length pg. 5</i>
MOUNTING <sup>3</sup>	VOLTAGE	DRIVER	CIRCUITING
<b>AC_ _G_</b> - AC to Grid <i>QS</i> <b>AC_ _JB</b> - AC to J Box <i>QS</i> <b>AC_ _ST</b> - AC to Structure <i>QS</i> <b>AC5_ _G_</b> - 5" Non-Power Canopy <b>AC5_ _JB</b> - 5" Non-Power Canopy <b>SQ_ _G_</b> - 5" Square Canopy <b>SQ_ _JB</b> - 5" Square Canopy <b>WA</b> - Wall Mount <i>Mounting pg. 5</i>	<b>U</b> - Universal <i>QS</i> <i>(120 thru 277V)</i> <b>1</b> - 120V <i>QS</i> <b>2</b> - 277V <i>QS</i> <b>3</b> - 347V <i>Voltage pg. 5</i>	<b>FSD</b> - Factory Select Driver (1%, 0-10v) <i>QS</i> <b>PL2</b> - Advance Xitanium (0-10v, 1%) <b>OL2</b> - eldoLED Optotronic (1%, 0-10v) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0.1%, 0-10v) <b>OL5</b> - eldoLED Optotronic (1%, 0-10v, AUX) <b>OD1</b> - eldoLED Optotronic (1%, 0-10v, DEXAL) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <i>Driver pg. 6</i>	<b>1</b> - Single Circuit <i>QS</i> <b>M</b> - Multi Circuit <b>E</b> - Emergency <i>QS</i> <i>(entire fixture)</i> <b>N</b> - Night Light <i>QS</i> <i>(entire fixture)</i> <i>Circuiting pg. 6</i>
BATTERY & EMERGENCY <sup>4</sup>	FINISH	FIXTURE OPTIONS <sup>5</sup>	CONTROLS <sup>6</sup>
<b>0</b> - None <i>QS</i> <b>_FSB</b> - Factory Select Battery <i>QS</i> <b>_FSG</b> - Factory Select ALCR <b>_GI</b> - Iota ETS DR <b>_GB</b> - Bodine GTD <b>_ILL</b> - Iota 10w <b>_PLL</b> - Bodine 10w <b>_E</b> - Emergency circuit section <b>_N</b> - Night Light circuit section <b>_L</b> - Life Safety circuit section <i>Battery and Emergency pg. 6</i>	<b>W</b> - White <i>QS</i> <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. 7</i>	<b>QS</b> - QuickShip <i>QS</i> <b>DSP</b> - Customer Supplied Battery/Driver/ Sensor <i>Fixture Options pg. 7</i>	<b>DLMFC</b> - Wattstopper DLM ( <i>wired</i> ) <b>EASYS</b> - Philips EasySense ( <i>wireless</i> ) <b>SNSLM</b> - Encelium Sensilum ( <i>wireless</i> ) <b>WVLX</b> - Eaton zWaveLinX ( <i>wireless</i> ) <b>VDO</b> - Lutron Vive Sensor ( <i>wireless</i> ) <b>VRF</b> - Lutron Vive Connected ( <i>wireless</i> ) <b>ENL_</b> - Enlighted ( <i>wireless</i> ) <i>Controls pg. 7</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. See output charts 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". <sup>4</sup>Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example AC48G1. <sup>5</sup>Enter quantity for Battery and Emergency, Example 2PL. <sup>6</sup>QS must be used in fixture options section of part number to qualify. 1/8" increments not available for QS. <sup>7</sup>Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 6 for driver options and more information.

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## Distribution

40	70	100
40% Direct / 60% Indirect	70% Direct / 30% Indirect	100% Direct
		

## 40% Direct Source: Static White

- 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

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

### 80 CRI

	Color	Lumens per foot	Shielding	
			A Satine Watts/ft	LPW
<b>830LO</b>	3000K	400	2.8	144.7
<b>830</b>	3000K	600	4.0	150.4
<b>830HO</b>	3000K	850	5.7	149.1
<b>830VHO</b>	3000K	1250	8.4	148.7
<b>835LO</b>	3500K	400	2.7	149.7
<b>835</b>	3500K	600	3.9	155.7
<b>835HO</b>	3500K	850	5.5	154.4
<b>835VHO</b>	3500K	1250	8.1	154.0
<b>840LO</b>	4000K	400	2.7	150.4
<b>840</b>	4000K	600	3.8	156.3
<b>840HO</b>	4000K	850	5.5	155.1
<b>840VHO</b>	4000K	1250	8.1	154.7

### 90 CRI

<b>927LO</b>	2700K	400	3.4	118.3
<b>927</b>	2700K	600	4.9	125.2
<b>927HO</b>	2700K	850	6.8	125.3
<b>927VHO</b>	2700K	1250	10.1	123.4
<b>930LO</b>	3000K	400	3.3	121.1
<b>930</b>	3000K	600	4.6	129.4
<b>930HO</b>	3000K	850	6.6	129.6
<b>930VHO</b>	3000K	1250	9.8	127.7
<b>935LO</b>	3500K	400	3.2	123.7
<b>935</b>	3500K	600	4.5	132.2
<b>935HO</b>	3500K	850	6.4	132.4
<b>935VHO</b>	3500K	1250	9.6	130.5
<b>940LO</b>	4000K	400	3.3	122.8
<b>940</b>	4000K	600	4.6	131.2
<b>940HO</b>	4000K	850	6.5	131.4
<b>940VHO</b>	4000K	1250	9.7	129.5

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

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70% Direct Source: Static White<sup>1</sup>

### 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>

### 80 CRI

	Color	Lumens <i>per foot</i>	Shielding <b>A</b>	
			Satine <i>Watts/ft</i>	<i>LPW</i>
<b>830LO</b>	3000K	400	3.6	111.6
<b>830</b>	3000K	600	5.4	111.7
<b>830HO</b>	3000K	850	7.6	111.6
<b>830VHO</b>	3000K	1250	11.6	108.1
<b>835LO</b>	3500K	400	3.5	115.5
<b>835</b>	3500K	600	5.2	115.7
<b>835HO</b>	3500K	850	7.4	115.6
<b>835VHO</b>	3500K	1250	11.2	112.1
<b>840LO</b>	4000K	400	3.4	116.0
<b>840</b>	4000K	600	5.2	116.0
<b>840HO</b>	4000K	850	7.3	116.1
<b>840VHO</b>	4000K	1250	11.1	112.6

### 90 CRI

<b>927LO</b>	2700K	400	4.3	93.8
<b>927</b>	2700K	600	6.4	93.9
<b>927HO</b>	2700K	850	9.2	92.7
<b>927VHO</b>	2700K	1250	13.8	90.5
<b>930LO</b>	3000K	400	4.1	97.0
<b>930</b>	3000K	600	6.2	96.8
<b>930HO</b>	3000K	850	8.9	95.9
<b>930VHO</b>	3000K	1250	13.3	93.7
<b>935LO</b>	3500K	400	4.0	99.3
<b>935</b>	3500K	600	6.1	98.9
<b>935HO</b>	3500K	850	8.7	98.0
<b>935VHO</b>	3500K	1250	13.1	95.8
<b>940LO</b>	4000K	400	4.1	98.4
<b>940</b>	4000K	600	6.1	98.2
<b>940HO</b>	4000K	850	8.7	97.3
<b>940VHO</b>	4000K	1250	13.2	95.0

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



## 100% Direct Output

### 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>

### 80 CRI

	Color	Lumens per foot	Shielding <b>A</b>	
			Satine Watts/ft	LPW
<b>830LO</b>	3000K	400	3.6	111.1
<b>830</b>	3000K	600	5.4	111.2
<b>830HO</b>	3000K	850	7.6	111.1
<b>830VHO</b>	3000K	1250	11.6	107.6
<b>835LO</b>	3500K	400	3.5	115.0
<b>835</b>	3500K	600	5.2	115.1
<b>835HO</b>	3500K	850	7.4	115.1
<b>835VHO</b>	3500K	1250	11.2	111.6
<b>840LO</b>	4000K	400	3.5	115.5
<b>840</b>	4000K	600	5.2	115.6
<b>840HO</b>	4000K	850	7.4	115.6
<b>840VHO</b>	4000K	1250	11.2	112.0

### 90 CRI

<b>927LO</b>	2700K	400	4.3	93.4
<b>927</b>	2700K	600	6.4	93.4
<b>927HO</b>	2700K	850	9.2	92.3
<b>927VHO</b>	2700K	1250	13.9	90.0
<b>930LO</b>	3000K	400	4.1	96.6
<b>930</b>	3000K	600	6.2	96.3
<b>930HO</b>	3000K	850	8.9	95.5
<b>930VHO</b>	3000K	1250	13.4	93.2
<b>935LO</b>	3500K	400	4.0	98.8
<b>935</b>	3500K	600	6.1	98.4
<b>935HO</b>	3500K	850	8.7	97.6
<b>935VHO</b>	3500K	1250	13.1	95.3
<b>940LO</b>	4000K	400	4.1	97.9
<b>940</b>	4000K	600	6.1	97.7
<b>940HO</b>	4000K	850	8.8	96.9
<b>940VHO</b>	4000K	1250	13.2	94.6

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

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## Length

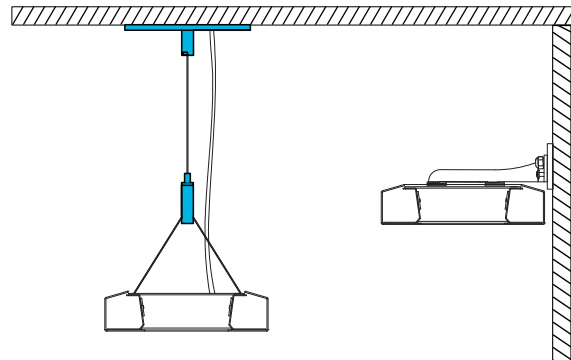
- All individual units cannot be joined, end caps are factory installed and cannot be removed
- Add 3/8" for each end cap or 3/4" to the overall length of the row
- Aperture sizes vary, 4' fixtures have a single 45-7/16" long aperture, 6' fixtures have two 33-11/16" long apertures, and 8' fixtures have 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) or 8'-0" (3438.4mm) center
- End caps and standard white power cord attached at factory
- Aircraft Cable supplied with 5" (127mm) power and 2" (51mm) non-power canopies
- 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

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



## 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

<b>FSD</b>	Factory Select Driver (1%, 0-10v)
<b>PL2</b>	Signify Advance Xitanium 1%, 0-10v
<b>PL4</b>	Advance Xitanium 347v 1%, 0-10v, requires 347v
<b>OL2</b>	eldoLED Optotronic, 1%, 0-10v
<b>OL4</b>	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v Logarithmic
<b>EE2</b>	eldoLED ECOdrive 1%, 0-10v Linear
<b>ES1</b>	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear
<b>PL5</b>	Advance Xitanium 1%, 0-10v, AUX, Dim to Off
<b>OL5</b>	eldoLED Optotronic 1%, 0-10v, AUX, Dim to Off

### DALI Drivers

<b>EE3</b>	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
<b>ES3</b>	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
<b>OD1</b>	eldoLED Optotronic 1%, DEXAL, DALI 2, DT6, Self powered link
<b>EE4</b>	eldoLED ECOdrive 1%, DALI 2, Linear, DT6
<b>ES4</b>	eldoLED SOLOdrive 0.1%, DALI 2, Linear, DT6
<b>PR1</b>	Advance Xitanium SR, DALI 2, Self powered link

### Lutron Drivers

<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
------------	---

### Alternate Drivers

<b>PS1</b>	Advance Xitanium Step Dimming 50%/100%
<b>EH1</b>	ERP 1%, Line Voltage and ELV, requires 120v

## How to specify Circuiting, Battery and Emergency

- 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>M</b>	Multi Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

- 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

- 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>_FSB</b>	Factory Select Battery (10w option)
<b>_FSBST</b>	Factory Select Battery (10w, Self Testing)
<b>_ILL</b>	Iota 10w Integral Lithium, Self Testing
<b>_PLL</b>	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

<b>_FSG</b>	Factory Select ALCR Emergency Control Device, UNV
<b>_GI</b>	Iota ETS-DR, Emergency Control Device, UNV
<b>_GB</b>	Bodine GTD, Emergency Control Device, 120v or 277v
<b>_E</b>	Emergency circuit section
<b>_N</b>	Night Light circuit section
<b>_L</b>	Life Safety circuit section NO THROUGH WIRE

### Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery
- Emergency only, 10w Integral Battery
- Single circuit, GTD required

Ordering Code: 1-1FSB  
Ordering Code: E-1PLL  
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

<b>W</b>	White ( <i>white cord/white canopy</i> )
<b>S</b>	Metallic Silver ( <i>white 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> )

## Fixture Options

- Additional options to enhance the fixture and finish of the product

<b>QS</b>	Quick Ship
<b>DSP</b>	Customer Supplied Battery/Driver/Sensor

## Quick Ship

Distribution	CRI, CCT & Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish
<b>10-Day</b>							
<b>40</b> 40% Direct	80 CRI, All color temperatures, all lumen packages Including custom See pg 2-3	<b>AC__GX</b> Grid	<b>U</b> Universal (120 thru 277)	<b>FSD</b> Factory Select Driver (1%, 0-10v)	<b>1</b> Single Circuit	<b>0</b> None	<b>W</b> White
<b>70</b> 70% Direct		<b>AC__JB</b> Junction	<b>1</b> 120 V		<b>E</b> Emergency	<b>FSB</b> Factory Select	
<b>100</b> 100% Direct		<b>AC__ST</b> Structure	<b>2</b> 277V		<b>N</b> Night Light	Batter	

All lengths and continuous rows up to 1,000 ft OR 150 individual fixtures. Consult factory for larger projects.

## 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-210	Daylight/PIR Occupancy	Wireless to switches	PR1	Not available with 347 volt
<b>SNLSM</b>	Encelium Sensilum	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	Not available with 347 volt
<b>WLX</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

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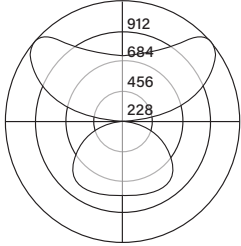
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## Photometrics

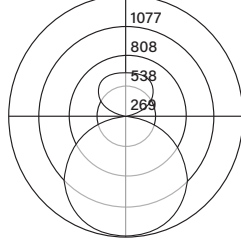
### Satine Lens

Test #	ITL93486-GONIOPHOTOMETRY
Catalog #	L6DI-A-40-840VHO-4
Lumens	5567 lm
Watts	36.7 W
Efficacy	151.7 LPW



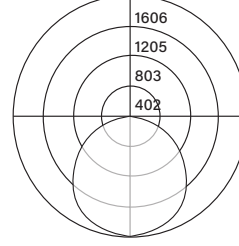
### Satine Lens

Test #	ITL90506-GONIOPHOTOMETRY
Catalog #	L6DI-A-70-840VHO-4
Lumens	4865 lm
Watts	43 W
Efficacy	113.1 LPW



### Satine Lens

Test #	ITL90505-GONIOPHOTOMETRY
Catalog #	L6D-A-100-840VHO-4
Lumens	4504 lm
Watts	39.8 W
Efficacy	113.2 LPW



### Candela Distribution

Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0		733	733	733	733	733
5		731	732	734	736	737
15		717	720	740	757	760
25		683	691	735	771	783
35		621	637	697	745	762
45		532	553	614	661	678
55		419	437	485	523	539
65		288	300	330	355	364
75		149	156	169	180	186
85		32	34	36	37	39
90		0	0	0	0	0
95		74	73	74	76	78
105		199	206	258	315	321
115		297	337	535	688	700
125		376	444	713	924	965
135		448	513	754	981	1048
145		514	558	721	907	976
155		573	592	670	763	805
165		615	618	641	665	675
175		638	638	640	641	642
180		641	641	641	641	641

### Candela Distribution

Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0		1077	1077	1077	1077	1077
5		1073	1074	1074	1075	1076
15		1043	1040	1054	1063	1063
25		975	972	1001	1021	1027
35		869	872	910	937	946
45		731	738	774	802	813
55		566	573	603	625	632
65		386	391	408	423	430
75		200	203	211	217	219
85		45	46	47	49	48
90		0	0	0	0	0
95		12	15	13	13	13
105		62	65	67	67	70
115		165	173	185	191	200
125		268	306	356	386	399
135		336	392	470	520	537
145		375	426	513	567	586
155		393	423	497	543	559
165		394	404	441	471	482
175		389	389	392	397	398
180		388	388	388	388	388

### Candela Distribution

Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0		1606	1606	1606	1606	1606
5		1599	1598	1599	1599	1600
15		1541	1532	1547	1554	1552
25		1418	1410	1436	1453	1454
35		1241	1241	1274	1296	1301
45		1027	1030	1063	1086	1095
55		786	791	816	835	845
65		530	534	549	564	570
75		273	275	281	288	292
85		61	61	62	63	62
90		0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7336	8467	9349
55	7123	8245	9163
65	6645	7614	8398
75	5613	6367	7007
85	3580	4028	4363

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10368	10978	11531
55	9897	10544	11051
65	9160	9682	10204
75	7750	8176	8486
85	5178	5408	5523

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11079	11467	11812
55	10453	10852	11237
65	9566	9909	10288
75	8046	8281	8606
85	5339	5426	5426





## 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 for 40%, 70% and 100%: L70 lifetime - 130,000 hours and L90 lifetime - 39,000 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at [pinnacle-ltg.com](http://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 Factory Select Driver 0-10V, 1% = FSD. 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:** Standard options available, refer to Controls section table for available options, component part number(s), connection type, required driver and limitations. Mod options available, consult with factory.

**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.