

Date: _____

Type: _____

Firm: _____

Project: _____

LLE-3 • LLE-6

Intelligent LED Linear Product Family

Product Family Features:

- Flexible controls for fine-tuning of lighting settings
- Wireless compatibility with LightRules® software
- Control flexibility for individual or group management
- Diffuse optics eliminate point sources and glare
- Digital Lumens' signature intelligence — occupancy sensing, daylight sensing, logging of all key energy and occupancy data
- Software-defined coordinated control and progressive dimming maximize occupant comfort and energy savings
- No glass or mercury



LLE-3 • LLE-6
with DLA-LLE



LLE-3 • LLE-6
without DLA-LLE



DLA-LLE

SENSING & CONTROL (DLA)

Onboard Intelligence	• Modular sensing with data logging • Energy and fault monitoring
Native Sensing	• Integrated PIR occupancy sensor • Integrated daylight sensor
Wireless Networking	IEEE 802.15.4 Wireless Mesh
Control Capabilities	• Scheduling via LightRules® • kWh and occupancy logging • Daylight harvesting
Dimming	• 0-100%, continuous • PAR1789-compliant with modulation > 1.25 kHz

ENVIRONMENTAL

Operating Temp.	-10° to 40° C
IP Rating ¹	IP40
Humidity	0-95%, non-condensing
Photobiological Safety	Exempt group per IEC 62471

CERTIFICATION & WARRANTY

Certifications	UL, cUL, UL-MX NOM, CE, DLC Premium, FCC Part 15 Class B, CISPR 15
Fixture Warranty	10-Year Limited

¹ ⚠ Maintain 3 m setback from walls open to exterior.
⚠ Clean with mild soap and water only.

Fixture Specifications

PERFORMANCE²

	LLE-3-ST		LLE-6-ST	
Color Temperature ³	5000 K CCT	4000 K CCT	5000 K CCT	4000 K CCT
CRI	80 minimum, 82 typical		80 minimum, 82 typical	
Lumen Output (Nominal)	3,420 lm	3,260 lm	6,612 lm	6,652 lm
Power Consumption (Nominal)	30 W	31 W	58 W	58 W
Efficacy	114 lm/W	106 lm/W	114 lm/W	112 lm/W
Input Ratings ⁴	120-277 V AC, 50-60 Hz, 0.27 A		120-277 V AC, 50-60 Hz, 0.50 A	
Unified Glare Rating	20			
Lumen Maintenance ⁵	• L70: 60,000 hours • L70 > 120,000 hours • L80 > 100,000 hours • L90 > 80,000 hours			
Power Factor	0.9 minimum			
Surge Protector	• Per IEC 61547 • 1 kV line-line / 2 kV line-earth			

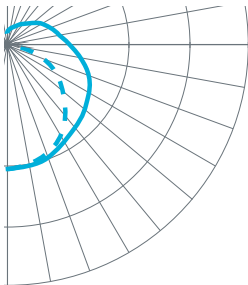
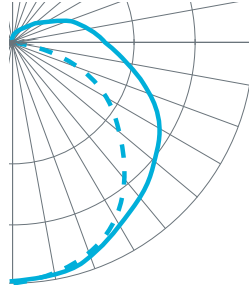
PHYSICAL

	LLE-3-ST	LLE-6-ST
Weight	<i>Fixture Only:</i> 3.0 kg	<i>Fixture Only:</i> 3.3 kg
	<i>Fixture with DLA-LLE:</i> 3.2 kg	<i>Fixture with DLA-LLE:</i> 3.5 kg
Dimensions (H x W x D)	<i>Fixture Only:</i> 10.9 x 9.3 x 123.2 cm	
	<i>Fixture with DLA-LLE:</i> 12.4 x 9.7 x 130.2 cm	
Mounting Options	Aircraft Cable or Fixed Mount (ceiling or wall)	
Enclosure	PC lens, PC/ABS endcaps, power-coated steel and aluminum	

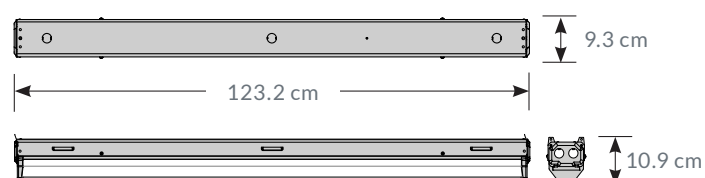
SPACING CRITERIA⁶

	LLE-3-ST	LLE-6-ST
Diffuse Optic	1.24	1.32

POLAR CANDELA DISTRIBUTION

	LLE-3-ST	LLE-6-ST
Diffuse Optic		

Fixture only⁷



Fixture with DLA-LLE



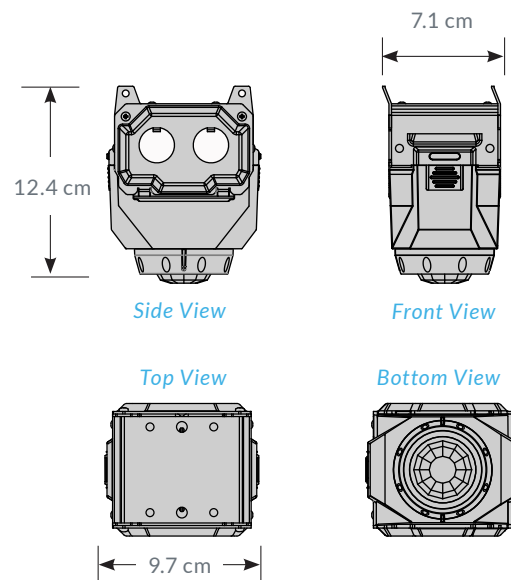
DLA-LLE Specifications

PERFORMANCE

Input Voltage	12 - 24 V DC
Power Consumption	< 0.5 W
Connections	• DC (Power) • DALI (Data)

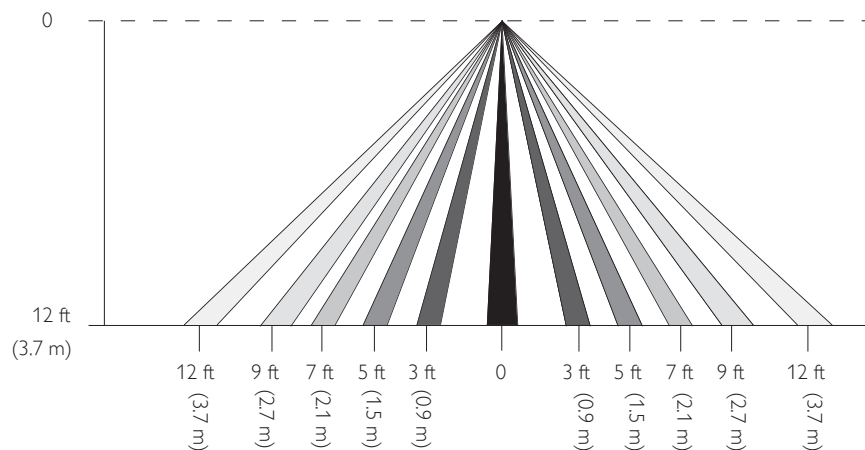
PHYSICAL

Dimensions (H x W x D)	12.4 x 9.7 x 7.1 x cm
Weight	< 0.5 W
Enclosure	PC/ABS, powder-coated steel and aluminum

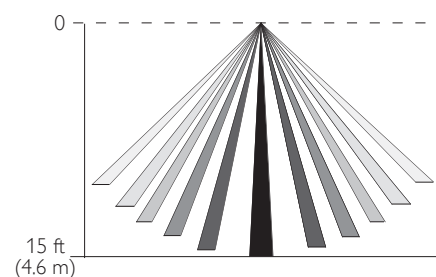


Sensor Coverage

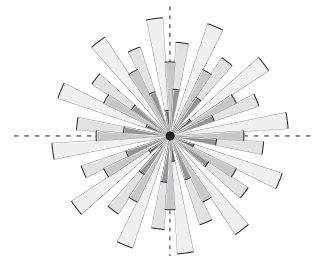
Ceiling Mount - Side View



Wall Mount (Top View)

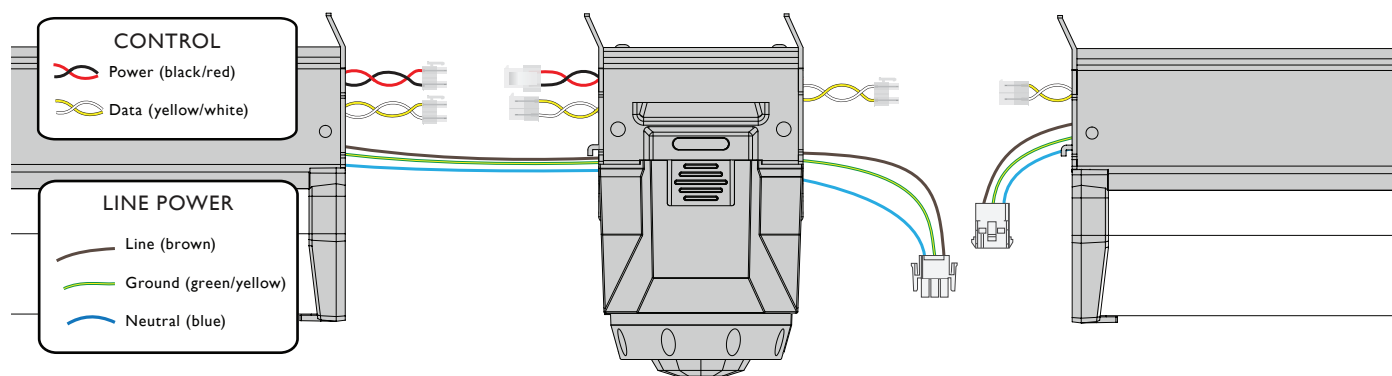


Ceiling Mount (Top View)



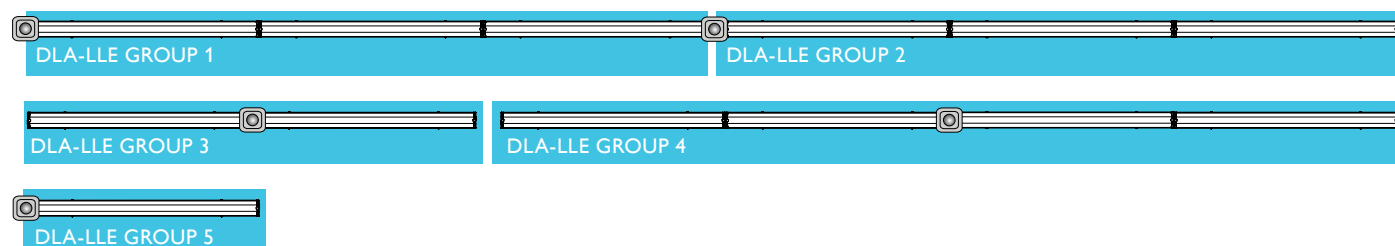
Wiring Schematic

Each fixture contains line power leads that connect to either the power source or to an adjacent fixture. Additionally, control data and power wires are provided to connect to the Digital Light Agent.



LLE/DLA-LLE Schematic

Fixtures can be installed and wired end-to-end in a multi-fixture run, or as standalone units. Each DLA can control up to fifteen LLE fixtures. The number of DLA modules installed in a fixture run will depend on preference and room characteristics.



ORDERING INFORMATION

Note: For short/standard leadtimes, select options in **bold**.

LLE (Fixture):

Using the table below, encode the appropriate item number for the fixture you wish to order. For example, LLE-3-ST-D-850.

FIXTURE	LUMEN OUTPUT		VOLTAGE		OPTIC		CRI/CCT	
LLE	-3	3,000 lumens	-ST	Standard	-D	Diffuse	-840	4000 K CCT
	-6	6,000 lumens					-850	5000 K CCT

Digital Light Agent (DLA) for LLE:

CATEGORY	PART NUMBER	DESCRIPTION
Modular Control	DLA-LLE-D	Digital Light Agent for LLE, Dense Motion Sensor

Accessories:

CATEGORY	PART NUMBER	DESCRIPTION
Hanging Hardware (LLE)	LHHA	Aircraft Cable Hanging Hardware (includes cables, fasteners, and spring clips for five (5x) fixtures)
	LHHRM	Fixed Mount Hanging Hardware (includes mounting brackets and locking screws for five (5x) fixtures)
LLE Demonstration Kit	LLEDK	Carrying case, DLA-LLE-D, pre-wired NEMA 5-15, power cord, DLUSB wireless antenna



² Individual fixture performance may vary.

³ Nominal CCT, as defined by ANSI C78.377-2008

⁴ Input ratings may vary for international certifications.

⁵ Projected, based on TM-21 data. L70 = Time to 70% lumen maintenance. For additional details, refer to the Statement of Lumen Maintenance.

⁶ Ratio of fixture spacing to mounting height.

⁷ LLE fixture length is 48 in (122 cm) when mounted end to end.

