

LLE-3 • LLE-6

Intelligent LED Linear Fixtures

EFFICIENT. FLEXIBLE. INTELLIGENT.

For both retrofits and new construction projects, the Digital Lumens intelligent LLEs are highly versatile, controllable, and efficient LED fixtures that feature Digital Lumens' signature intelligence and efficiency.

Designed for a broad range of commercial and industrial applications, LLEs are ideal alternatives to 1L and 2L T5/T8/T12 fluorescent fixtures and feature:

- 4-foot length;
- Mounting flexibility — installation done individually or end-to-end;
- Control flexibility for individual or group management;
- Various light output levels — 3,000- and 6,000-lumens;
- Color temperature options — 5,000K and 4,000K CCT;
- Diffuse optics eliminate point sources;
- Digital Lumens' signature intelligence — occupancy sensing, daylight sensing, logging of all key energy and occupancy data;
- Wireless communication with LightRules®, Digital Lumens' energy and intelligence software, for management and reporting;
- No maintenance or re-lamping;
- No glass or mercury;
- IP40 rating;
- 60,000+ hour L70-calculated lifetime rating;
- Five-year warranty.

INTELLIGENT FIXTURES. MAXIMUM SAVINGS.

LLE fixtures derive their intelligence from the Digital Light Agent for LLE (DLA-LLE). These standalone intelligence modules combine occupancy and daylight sensing, as well as wireless control and monitoring — making any fixture LightRules-ready. DLA-LLEs drive maximum efficiency and savings, and:

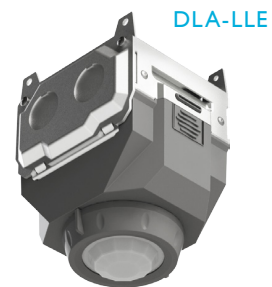
- Can be installed on individual fixtures or groups of fixtures;
- Combine control strategies — occupancy, daylight harvesting, dimming, task tuning, and scheduling — to drive the most aggressive savings possible;
- Make it possible to manage lighting settings via the LightRules web-based software;
- Enable rapid analysis of facility occupancy and energy usage to provide a data-driven perspective on operations; and
- Drive rapid payback and excellent lifetime TCO (Total Cost of Ownership).

Date: _____

Type: _____

Firm: _____

Project: _____



PRELIMINARY

FIXTURE SPECIFICATIONS

PRELIMINARY

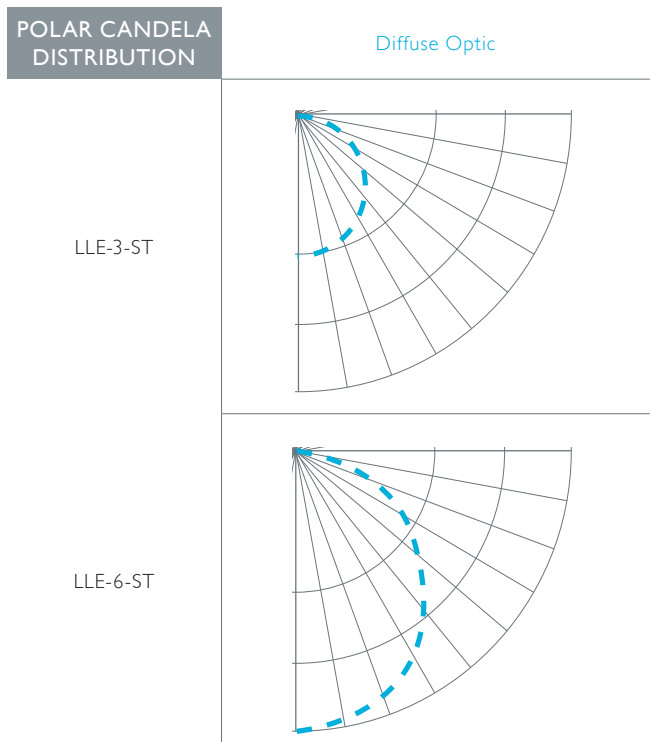
PERFORMANCE*	LLE-3-ST		LLE-6-ST	
	5000K	4000K	5000K	4000K
Lumen Output [†]	3,030 lm	3,025 lm	6,060 lm	6,050 lm
Power Consumption [†]	30.5 W	32.2 W	60.9 W	64.4 W
Efficacy [†]	99.5 lm/W	94.0 lm/W	99.5 lm/W	94.0 lm/W
Color Temperature ^{1,3}	<ul style="list-style-type: none"> • 5000 Kelvin CCT ("850") • 4000 Kelvin CCT ("840") 			
CRI [†]	80 minimum			
Lumen Maintenance (LM-80) @ 40°C (104°F) ²	L70 (10K): 60,000 hours			
Input Voltage ⁴	100 – 277 VAC, 50/60 Hz			
Power Factor [†]	0.9 minimum			
Surge Protection	Per IEC 61547			

PHYSICAL	LLE-3-ST	LLE-6-ST
Weight	<i>Fixture Only:</i> 3.0 kg (6.6 lbs)	<i>Fixture Only:</i> 3.3 kg (7.3 lbs)
	<i>Fixture with DLA-LLE:</i> 3.2 kg (7.1 lbs)	<i>Fixture with DLA-LLE:</i> 3.5 kg (7.7 lbs)
Dimensions (H x W x D)	<i>Fixture Only:</i> ⁶ 10.9 x 9.3 x 123.2 cm (4.0 x 3.7 x 48.5 in)	
	<i>Fixture with DLA-LLE:</i> 12.4 x 9.7 x 130.2 cm (4.9 x 3.8 x 51.3 in)	
Mounting Options	<ul style="list-style-type: none"> • Standard Aircraft Cable • Fixed Mount 	
Enclosure	PC/ABS polymer, anodized aluminum and steel	

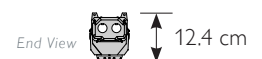
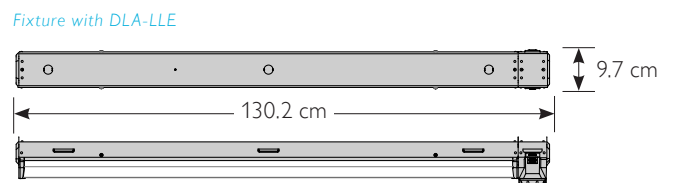
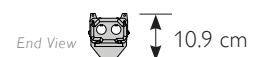
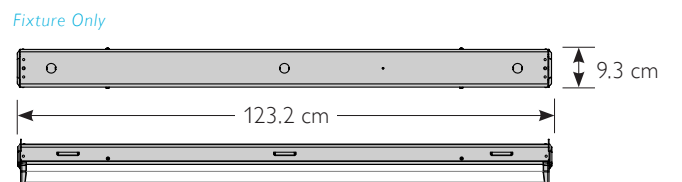
ENVIRONMENTAL	
Operating Temp.	-10° to 40°C (14° to 104°F)

CERTIFICATION & WARRANTY	
Certifications	• UL 1598
Pending Certifications	<ul style="list-style-type: none"> • UL-MX NOM, cUL, CE, C-Tick • FCC Part 15 Class B, CISPR 15
Warranty	5-year Limited Warranty

LLE SPACING CRITERIA ⁵	LLE-3-ST	LLE-6-ST
Diffuse Optic	1.24	1.32



DIMENSIONS LLE-3-ST & LLE-6-ST



* Individual fixture performance may vary

[†] Per LM-79-08 test methods

² Projected, based on TM-21 data. L70 = Time to 70% lumen maintenance. For additional details, refer to the Statement of Lumen Maintenance available online at digitallumens.zendesk.com

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

⁴ Voltage ratings may vary for international certifications

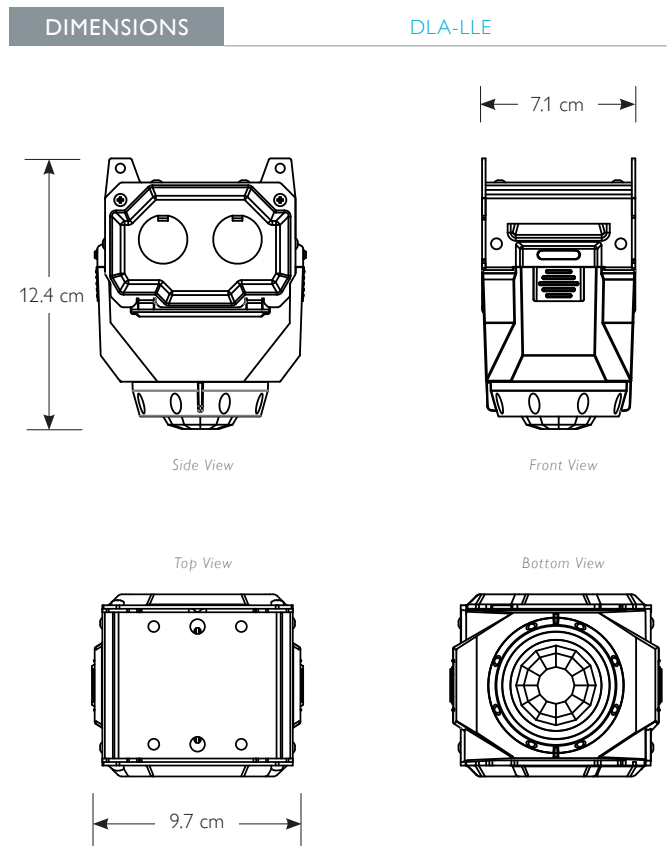
⁵ Ratio of fixture spacing to mounting height

⁶ LLE fixture length is 48" when mounted.

DLA-LLE SPECIFICATIONS

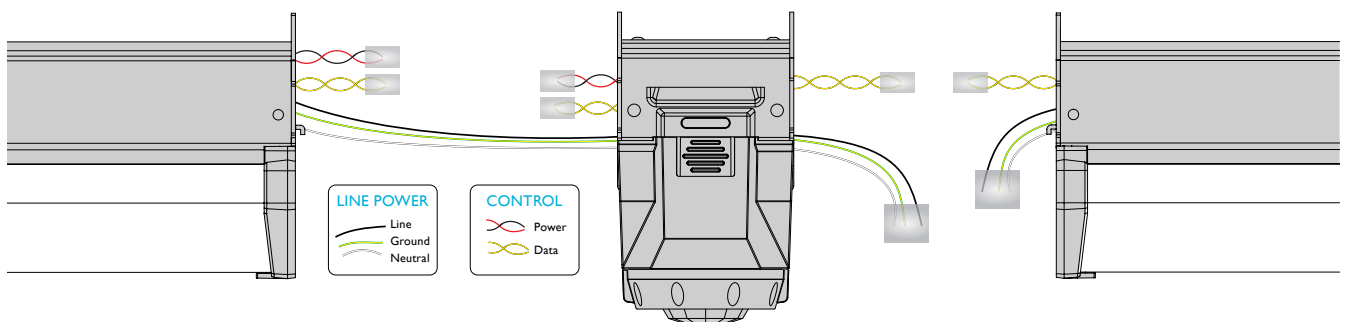
PRELIMINARY

PERFORMANCE	
Input Voltage	12-24 VDC
Power Consumption	<0.5 W
Connections	<ul style="list-style-type: none"> · DC (Power) · DALI (Data)
SENSING & CONTROL	
Onboard Intelligence	<ul style="list-style-type: none"> · Modular sensing with data logging · Energy and fault monitoring
Sensor Inputs	<ul style="list-style-type: none"> · Modular occupancy sensor (PIR) · Modular daylight sensor
Wireless Networking	Zigbee® Compliant Platform/802.15.4
Control Capabilities	<ul style="list-style-type: none"> · Scheduling via LightRules · kWh and occupancy logging · Daylight harvesting
PHYSICAL	
Dimensions (H x W x D)	12.4 x 9.7 x 7.1 cm (4.9 x 3.8 x 2.8 in)
Weight	243.8 g (8.6 oz)
Enclosure	PC/ABS polymer, anodized aluminum and steel



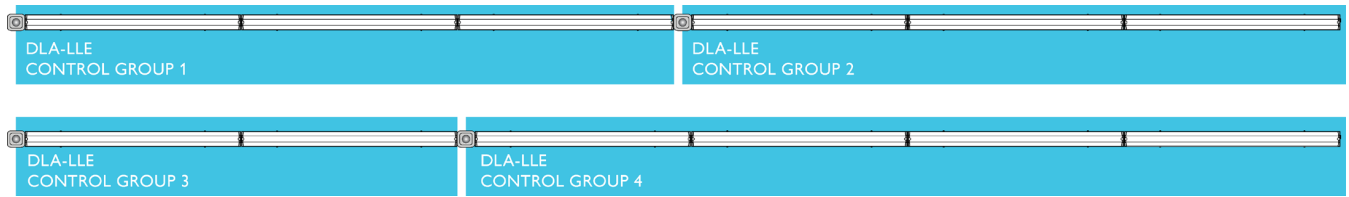
WIRING SCHEMATIC

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

The number of DLA-LLEs installed in a run will depend on preference and room characteristics. **NOTE:** Each DLA can control between one and fifteen LLE fixtures.

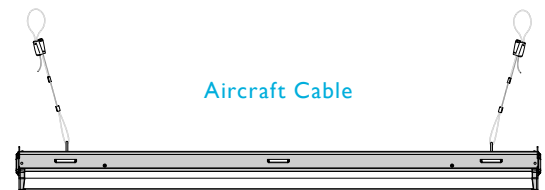


ORDERING INFORMATION

FIXTURE TYPE ▶	LLE-3		LLE-6		
	OPTIC ▼	5000K CCT	4000K CCT	5000K CCT	4000K CCT
Diffuse		LLE-3-ST-D-850	LLE-3-ST-D-840	LLE-6-ST-D-850	LLE-6-ST-D-840

DLA-LLE

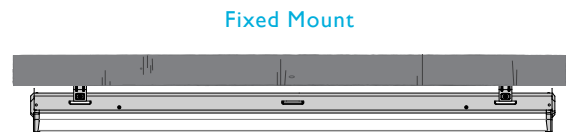
CATEGORY	PART NUMBER	PART DESCRIPTION
Modular Control	DLA-LLE-A	Digital Light Agent for LLE, Aisle Motion Sensor
	DLA-LLE-S	Digital Light Agent for LLE, Symmetric Motion Sensor



Aircraft Cable

HANGING HARDWARE

CATEGORY	PART NUMBER	PART DESCRIPTION
LLE Hanging Hardware	LHHAS	Aircraft Cable for LLE
	LHHRM	Fixed Mount Hanging Hardware for LLE



Fixed Mount

PRELIMINARY



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