

Cat. No.	
Туре	Date
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Project	

# LT-CD™ XE ECO Series

# Volumetric LED Troffer Center Diffuser

### **DESCRIPTION**

The Aleo LT-CD™ XE Series Volumetric LED Troffer delivers industry-leading performance with deep energy savings and continuous dimming. The precision-formed diffuser produces comfortable and pleasant illumination, enhancing productive spaces in various applications.

#### **APPLICATIONS**

Provides architectural aesthetics for retail, schools, offices, healthcare,

and other various commercial applications .







### LT-CD Series

**2x4** 25W, 34W, 48W **2x2** 18W, 26W, 34W

# **Specification** Features

### Construction

Simple construction with minimal parts allows for easy handling and installation. Low profile design optimizes shipping, storage, and handling. Luminaire features matte white durable finish. Integral T-Bar clips built into luminaire. Diffuser requires no additional frame or fastener for easy installation.

### **Optical System**

Reflector systems features highly reflective coating and delivers balanced, comfortable illuminance for productive spaces. Diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission.

#### Certification

UL Listed. All components have UL certification. UL Class 2. Driver: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2. DLC Premium QPL

#### Warranty

7-year Limited Warranty. See warranty documentation for more information.

#### **Electrical**

Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable driver features continuous dimming. Universal voltage (120-277V) for convenient installation. Comes equipped with luminaire quick-disconnect.

### **Installation / Mounting**

Installs in most standard T-Bar ceiling grid systems. Flange kit available for hard-lid/drywall applications.

# **Controls / Dimming**

Continuous dimming (0-10V) comes standard. Suitable for use with dimmers, sensors, daylight harvesting and other control strategies to achieve deeper energy-savings and code compliance.

Limited Warranty 7-years
Efficacy Up to 133 LPW
Continuous Dimming

Rated Life 75,000 hours



### Quick Ship

LT-CD-22HE-26/840 G4 ECO LT-CD-24LE-34/840 G4 ECO

### **Ordering** Information

Example: LT-CD-24LE-34/840 XE G4 ECO

LT-CD	24	LE	34	8	40	[Blank]	[Blank]
Series LT-CD Volumetric LED Troffer - Center Diffuser	Form Factor 24 2'x4' 22 2'x2'	VLE Very Low Wattage LE Low Wattage HE High Lumen  Options	Nominal Wattage 2'x4' 2'x 2' 25 25W 18 18W 34 34W 26 26W 48 48W 34 34W	CRI 8 83+	Color Temp 35 3500K <sup>1</sup> 40 4000K 50 5000K <sup>1</sup>	Input Voltage Blank 120V-277V	Dimming Blank 0-10V Continuous Dimming
		WLC/BT Ale	AleoBlue Wireless Bluetooth Occupancy Sensor AleoBlue Wireless Bluetooth Lighting Control Node SimplBlue Occupancy Sensor			EM7	700 700lm 1400 1400lm

# **Performance** Summary

	,		
Input Voltage	120V-277V		
Input Frequency	50/60 Hz		
Rated Wattage	See Performance Table		
Delivered Lumens	See Performance Table		
Efficacy	> 128 LPW (typ.)		
CRI	82+, R9 > 0		
Available CCT <sup>1</sup>	3500K, 4000K, 5000K		
Color Consistency <sup>2</sup>	5-step MacAdam Ellipse		
Rated Life	75,000 hours		
L70 <sup>3</sup>	> 72,000 hours		
Power Factor	> 0.9		
THD	< 20%		
Dimming	0-10V Continuous (10-100%)		
Operating Temp.	-20°C to 50°C		



Lay-in (Standard) Concealed Slot Grid

## Performance Data

				3500	OK¹	400	OK .	5000	OK¹
Form Factor	Catalog No.	Rated Wattage (W)	Tested Wattage (W)	Delivered Lumens (Im)	Efficacy (Im/W)	Delivered Lumens (lm)	Efficacy (Im/W)	Delivered Lumens (Im)	Efficacy (Im/W)
	LT-CD-24VLE-25/8xx G4 ECO	25	25.53	3150	126	3175	127	3200	128
2' x 4'	LT-CD-24LE-34/8xx G4 ECO	34	35.03	4284	126	4318	127	4352	128
	LT-CD-48HE-48/8xx G4 ECO	45	45.81	5670	126	5715	127	5760	128
	LT-CD-22LE-18/8xx G4 ECO	18	18.2	2268	126	2286	127	2304	128
2' x 2'	LT-CD-22HE-26/8xx G4 ECO	25	24.67	3150	126	3175	127	3200	128
	LT-CD-22HE-34/8xx G4 ECO	35	34.56	4375	125	4410	126	4445	127

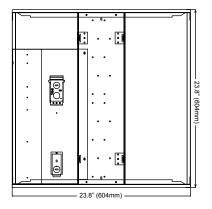
### NOTES:

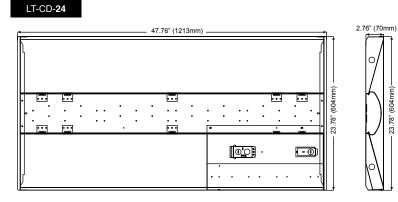
- Quick ship: 4000K. Other CCTs may require a lead time or be special order
- Typical color consistency. May vary or be changed.
- 3 L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers.

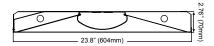
<sup>\*</sup> Fits 9/16, 15/16 and SS T-bar grid. Flange kit available upon request

# Product **Dimensions**

# LT-CD-22







# **DLC QPL** Data



QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
LT-CD-22LE-18/835 G4 ECO	PLXXH5RQXGB9	4.4	Premium	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-22LE-18/840 G4 ECO	PLMF4DW979ZC	4.4	Premium	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-22LE-18/850 G4 ECO	PLDLAB1R0TPG	4.4	Premium	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-22HE-26/835 G4 ECO	PLZRVIIPU0KY	4.4	Premium	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-22HE-26/840 G4 ECO	PLMZBMTXYJV4	4.4	Premium	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-22HE-26/850 G4 ECO	PLUPRRSZC8RE	4.4	Premium	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-22HE-34/835 G4 ECO	PLRV8FQ3J58A	4.4	Premium	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-22HE-34/840 G4 ECO	PLTTI7VJ2LS5	4.4	Premium	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-22HE-34/850 G4 ECO	PLYTPLQRY4RQ	4.4	Premium	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-24VLE-25/835 G4 ECO	PLIGGDTUQQOO	4.4	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-24VLE-25/840 G4 ECO	PLX1GZOB6NRO	4.4	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-24VLE-25/850 G4 ECO	PL2AI1ZFIP5T	4.4	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-24LE-34/835 G4 ECO	PLACXDP2KTGU	4.4	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-24LE-34/840 G4 ECO	PLU34M9C4G7S	4.4	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-24LE-34/850 G4 ECO	PLGCWMECBJ5F	4.4	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-24HE-48/835 G4 ECO	PLDEAH8POCJV	4.4	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-24HE-48/840 G4 ECO	PLTMPXZWB52W	4.4	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
LT-CD-24HE-48/850 G4 ECO	PLXFC8PH03W8	4.4	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces







# **AleoBlue** Wireless Bluetooth Controls



The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

# **Features and Benefits**

- · Lighting Zones / Grouping
- · Manual control of individual lights
- · On Power up Behavior
- Zone Linking
- Vacancy Sensing
- · Per fixture Daylight Control
- · Per zone Daylight Control



- Optimized Energy Consumption
- · Less Hassle with On-Site Adjustments
- More Savings
- · Increased Safety
- More Flexibility

### Scheduling



### High and Low End Trim



#### Scenes



### **Occupancy Sensing**



- · Intuitive and user-friendly web and iOS apps
- · No specialized training or lighting control expertize required
- · Optimized for commercial spaces of any size
- · No additional wiring or central control box
- · Customizable lighting control parameters
- · Future proof with Software Updates
- · Multiple Zone Configurable
- Built-In Scenarios + Customization

# **Bluetooth Mesh** Technology Advantages



The fastest low-power communication



Scalability to thousands of devices



The most advanced encryption standards as well as the cutting-edge device authentication



No single point of failure (no central device)



Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)

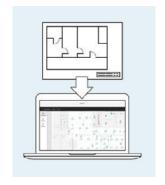


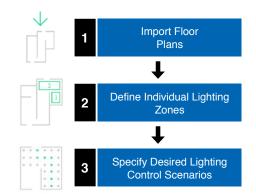




## **Planning**

Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.







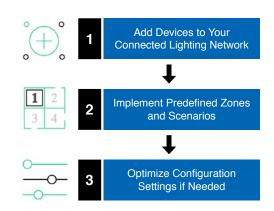


## **Implementation**

Adding lighting devices to the Bluetooth mesh network on-site with the use of an iOS app.

Customization and calibration of lighting control parameters during and after the commissioning process. Defining scenes for specific working activities.







# **Provisioning** / Configurations

The Bluetooth mesh Node is in the Unprovisioned Mode until it is provisioned by a "Provisioner", which typically is a smart phone with a Bluetooth mesh compatible app.

### **Ordering** Information



Wireless Bluetooth Occupancy Sensor Model: -OSDL/BT



Wireless Bluetooth Lighting Control Node Model: -WLC/BT



EnOcean BLE Single-Rocker Switch Model: ESRPB



EnOcean BLE

Double-Rocker Switch

Model: EDRPB



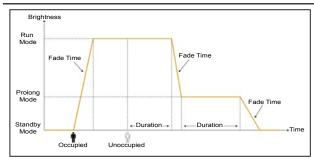
# **Lighting Control Scenarios**

Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

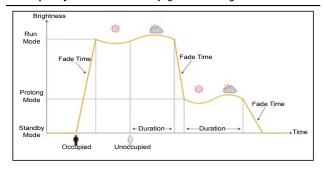


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

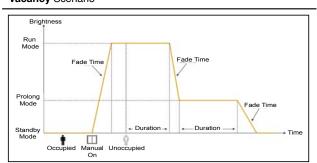
### Occupancy Scenario



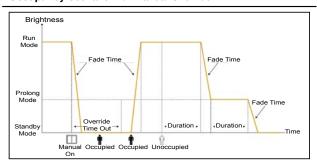
### Occupancy Scenario - with Daylight Harvesting



### Vacancy Scenario

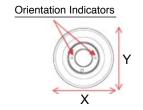


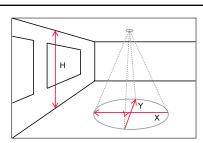
### Occupancy Scenario with Manual Override

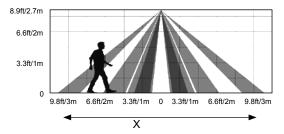


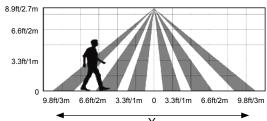
# Occupancy Detection Pattern

Н	Х	Y
7.9' (2.4m)	16.4' (5.0m)	16.4' (5.0m)
8.9' (2.7m)	18.4' (5.6m)	18.4' (5.6m)
9.8' (3.0m)	20.3' (6.2m)	20.3' (6.2m)









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