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## LTR™ UX ECO Series

## LED Troffer Retrofit Kit - Field Adjustable

### DESCRIPTION

The Aleo LTR<sup>™</sup> UX ECO Series Troffer Retrofit Kit delivers industry-leading Versatility with deep energy savings and continuous dimming. Easy and quick installation reduces labor cost and optimizes ROI. The retrofit kit eliminates the need to replace existing luminaire housing, which reduces install time and disposal/removal costs. 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.

### **Specification** Features

### Construction

Simple construction with minimal parts allows for easy handling and installation. Luminaire features matte white durable finish.

### **Optical System**

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

### Certification

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

#### Warranty

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

### Electrical

PREMIUM

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.

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### **Field-Adjustable CCT**

Increased versatility and reduced inventory burden. Color Temp. can be adjusted in the field by selecting (3) different CCTs via switch on driver box

### Installation / Mounting

Installs in most troffer luminaires. Retrofit kit fits within troffer and ceiling T-bar grid, eliminating need to remove existing fixture housing.

### **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.

### LTR Series

**2x4** 25W / 30W / 34W **2x2** 20W / 25W / 30W

Rated Life 75,000 hours Limited Warranty 7-years Efficacy Up to 130 LPW Continuous Dimming



## Ordering Information

## LTR-24-UXL/8CT G4 ECO-HD (XX)

LTR	24		UXL	8	СТ	(XX)		[Blank]	[Blank]
Series LTR LED Troffer Retrofit Kit	Form Factor 24 2'x4' 22 2'x2'	Lume UXL	en Package Factory Set	CRI 8 83+	Color Temp CT Field Adjust. 3500K 4000K 5000K * Utilize 3-way switch to select	Nominal Wattage 2'x4' 25W / 30W / 34W 2'x2' 20W / 25W / 30W * Wattage Factory Set	Desi HD	<b>gn</b> Hinged Door Design	Input Voltage Blank 120V-277V
[Blank]OptionsDimmingControlsBlankOSDL/BT0-10V ContinuousOSDL/BTEZ-EDimmingOSDL/BTEZ-E			lue Wireless Blueto Blue Occupancy Se	ooth Occupancy Sens	sor	Emergency EM700 700 EM1400 140	)lm		

Specifications and Dimensions subject to change without notice.

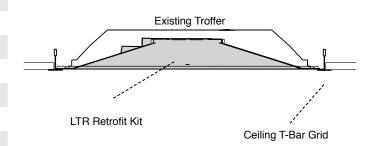
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# LED Troffer Retrofit Kit - Field Adjustable

## Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 130 LPW (typ.)
CRI	83+, 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>	> 54,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp	-20°C to 50°C

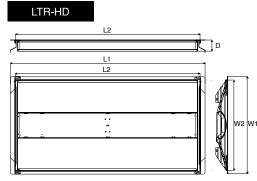
## **Mounting** Information



## Performance Data

			3500K		4000K		5000K	
Form Factor	Catalog No.	Rated Wattage (W)	Delivered Lumens (Im)	Efficacy (Im/W)	Delivered Lumens (Im)	Efficacy (Im/W)	Delivered Lumens (Im)	Efficacy (Im/W)
	2' x 4' LTR-24-UXL/8CT G4-HD ECO (XX)	25	3475	139	3775	151	3525	141
2' x 4'		30	4080	136	4440	148	4140	138
		34	4556	134	4964	146	4624	136
		20	2800	140	3020	151	2880	144
2' x 2'	LTR-22-UXL/8CT G4-HD ECO (XX)	25	3400	136	3675	147	3500	140
	30	3930	131	4260	142	4050	135	

## Product **Dimensions**



Catalog No.	L1	L2	W1	W2	D
LTR-24 XE G4-HD ECO	47.8"	45.4"	23.9"	22.1"	2.4"
	(1215mm)	(1153mm)	(606mm)	(562mm)	(78.4mm)
LTR-22 XE G4-HD ECO	23.9"	22.1"	23.9"	22.1"	2.4"
	(606mm)	(562mm)	(606mm)	(562mm)	(78.4mm)

NOTES:

Quick ship: 4000K. Other CCTs may require a lead time or be special order

2 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. Specifications and Dimensions subject to change without notice. Form LTR-UX-SS XE G4 / Rev. 07 Aleo Lighting, Inc. | www.aleolighting.com | Ph: 877-358-8825 © 2022 Aleo Lighting, Inc. All rights reserved.

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DLC	QPL	Data
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DLC QPL Model No.	Product ID.	Technical Req.	Classification	Primary Use
LTR-22-UXL/8CT G4 ECO-HD (20)	PI6RROFT	5.1	Standard	Integrated Retrofit Kits for 2x2 Luminaires
LTR-22-UXL/8CT G4 ECO-HD (25)	PTYNY9CP	5.1	Standard	Integrated Retrofit Kits for 2x2 Luminaires
LTR-22-UXL/8CT G4 ECO-HD (30)	P1JIEE92	5.1	Standard	Integrated Retrofit Kits for 2x2 Luminaires
LTR-24-UXL/8CT G4 ECO-HD (25)	PQOGP140	5.1	Standard	Integrated Retrofit Kits for 2x4 Luminaires
LTR-24-UXL/8CT G4 ECO-HD (30)	PNPRQ59C	5.1	Standard	Integrated Retrofit Kits for 2x4 Luminaires
LTR-24-UXL/8CT G4 ECO-HD (34)	P9H5VNTZ	5.1	Standard	Integrated Retrofit Kits for 2x4 Luminaires

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## Learn More



## 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.

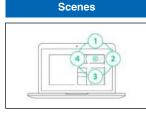
# Features and Benefits

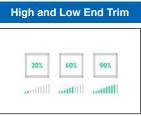
- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- Vacancy Sensing
- Per fixture Daylight Control •
- Per zone Daylight Control



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

Scheduling









- 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



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)

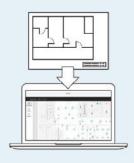
### Specifications and Dimensions subject to change without notice.

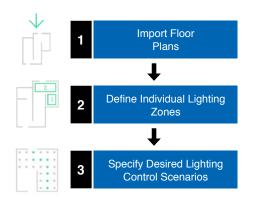
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### Planning

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.





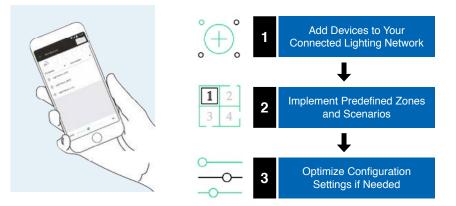




### Implementation

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



**Occupancy Sensor** Model: -OSDL/BT

Lighting Control Node Model: -WLC/BT

**Single-Rocker Switch** Model: ESRPB



**Double-Rocker Switch** Model: EDRPB

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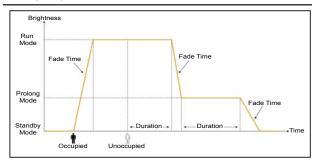
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## Lighting Control Scenarios

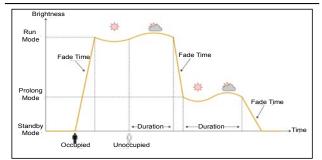
Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.



### **Occupancy** Scenario



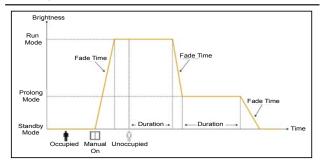
### Occupancy Scenario - with Daylight Harvesting

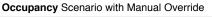


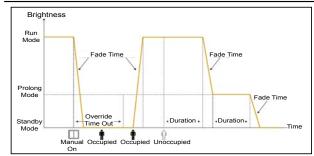
## Occupancy Detection Pattern

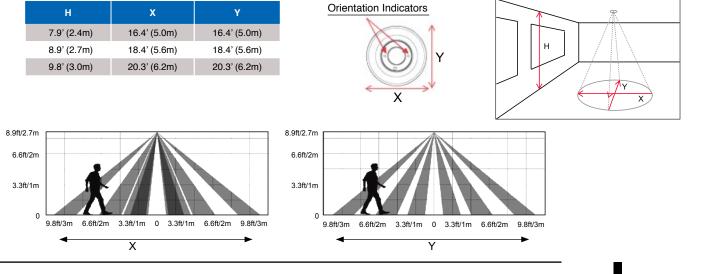
Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

#### Vacancy Scenario









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