aleo LED LIGHTING

Date

aleoblue

Project Notes

Type Cat. No.

LED Troffer Retrofit Kit

DESCRIPTION

LTR ECO™ Series

The Aleo LTR ECO™ Series Troffer Retrofit Kit delivers industry-leading performance 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 quickdisconnect.

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.



2x4 36W 2x2 26W

Rated Life 75,000 hours Limited Warranty 7-years Efficacy Up to 131 LPW Continuous Dimming



Quick Ship

LTR-24LE-36/840 G4 ECO-HD LTR-22HE-26/840 G4 ECO-HD

© 2022 Aleo Lighting, Inc. All rights reserved.

Ordering Information

Example: LTR-24LE-36/840 G4 ECO-HD

LE ECO LTR 24 36 8 40 HD [Blank] Input Voltage Series Form Factor Lumen Package Nominal Wattage CRI **Color Temp** Designation Design LTR LE Low Wattage 40 4000K ECO 24 2'x4' 2'x4' 8 83+ HD Hinged Blank LED Troffer 120V-277V Door 22 2'x2' 36 36W HE High Lumen Retrofit Kit Desian 2'x2' 26 26W Options [Blank] Dimming **Emergency Backup** Controls OSDL/BT Blank EM700 700lm AleoBlue Wireless Bluetooth Occupancy Sensor 0-10V Continuous EM1400 1400lm WLC/BT AleoBlue Wireless Bluetooth Lighting Control Node Dimming **OSDL/BTEZ-B** SimplBlue Occupancy Sensor

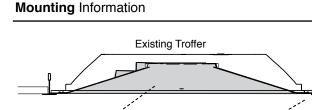
Aleo Lighting, Inc. | www.aleolighting.com | Ph: 877-358-8825

Specifications and Dimensions subject to change without notice. Form LTR_ECO-SS XE G4 / Rev. 05

1 of 6

Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 131 LPW (typ.)
CRI	83+, R9 > 0
Available CCT ¹	4000K
Color Consistency ²	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70 ³	> 72,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp	-20°C to 50°C



LTR Retrofit Kit

Ceiling T-Bar Grid

Performance Data

				3500K ¹		4000K		5000K ¹	
Form Factor	Catalog No.	Rated Wattage (W)	Tested Wattage (W)	Delivered Lumens (Im)	Efficacy (Im/W)	Delivered Lumens (Im)	Efficacy (Im/W)	Delivered Lumens (Im)	Efficacy (Im/W)
2' x 4'	LTR-24LE-36/8xx G4 ECO-HD	34	32.7	4276	129	4420	130	4454	131
2' x 2'	LTR-22HE-26/8xx G4 ECO-HD	25	24.7	3225	129	3250	130	3275	131

NOTES:

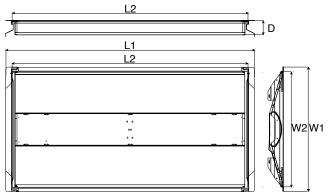
¹ Quick ship: 4000K. Other CCTs may require a lead time or be special order

- 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.

Product Dimensions

LTR-HD



Catalog No.	L1	L2	W1	W2	D
LTR-22HE G4 ECO-HD	24"	22.1"	23.9"	22.1"	3.1"
LTR-24LE G4 ECO-HD	48"	45.4"	23.9"	22.1"	3.1"

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
LTR-22HE-26/835 G4 ECO-HD	PLJJIV0LI16X	5.0	Premium	Integrated Retrofit Kits for 2x2 Luminaires
LTR-22HE-26/840 G4 ECO-HD	PLFOQVKV5QQW	5.0	Premium	Integrated Retrofit Kits for 2x2 Luminaires
LTR-22HE-26/850 G4 ECO-HD	PL742RN7GXOU	5.0	Premium	Integrated Retrofit Kits for 2x2 Luminaires
LTR-24LE-36/835 G4 ECO-HD	PLQWUQ7U9TFS	5.0	Premium	Integrated Retrofit Kits for 2x4 Luminaires
LTR-24LE-36/840 G4 ECO-HD	PLNXSE8AZU9O	5.0	Premium	Integrated Retrofit Kits for 2x4 Luminaires
LTR-24LE-36/850 G4 ECO-HD	PLN10GNICZK9	5.0	Premium	Integrated Retrofit Kits for 2x4 Luminaires







aleo**blue**

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.

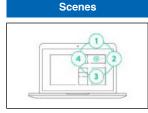
Features and Benefits

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

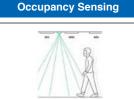


- Optimized Energy Consumption
- · Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

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



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)

Specifications and Dimensions subject to change without notice.

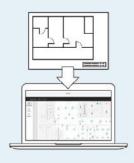


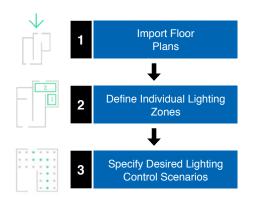
aleo**blue**



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.





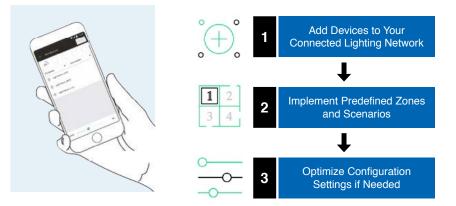




Implementation

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

Wireless Bluetooth Lighting Control Node Model: -WLC/BT

EnOcean BLE Single-Rocker Switch Model: ESRPB

EnOcean BLE Double-Rocker Switch Model: EDRPB

Specifications and Dimensions subject to change without notice.

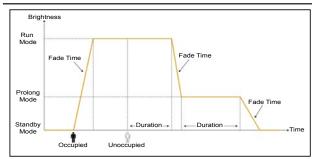
aleo**blue**

Lighting Control Scenarios

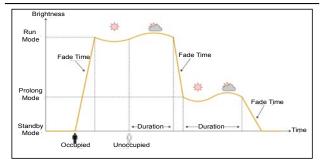
Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.



Occupancy Scenario



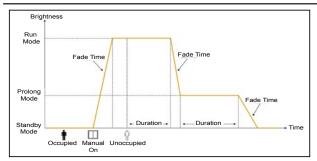
Occupancy Scenario - with Daylight Harvesting

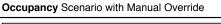


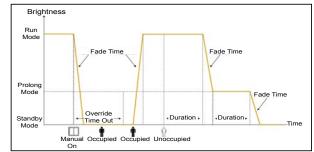
Occupancy Detection Pattern

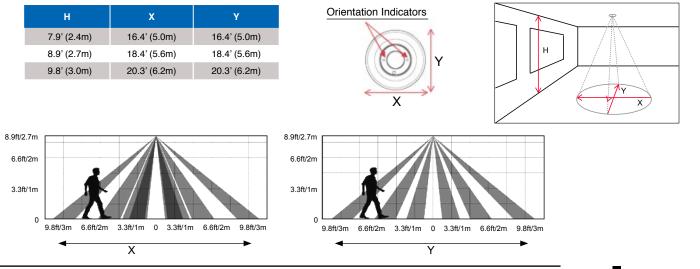
Mode / Scenario Wireless Switch **Occupancy Sensor** Ambient Light Sensor Unprovisioned Mode Switch On / Off / Scenes On / Off / Scenes Auto On / Off Occupancy On / Off / Scenes Vacancy Auto Off Occupancy with Daylight Harvesting On / Off / Scenes Auto On / Off Enabled On / Off / Scenes Vacancy with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











© 2022 Aleo Lighting, Inc. All rights reserved. For informational purposes only. Reproduction in whole or part is prohibited without prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequences of its use. Aleo Lighting reserves the rights make changes in specification at any time without notice. Aleo Lighting, Inc. www.aleolighting.com 10988 Bloomfield Ave. Santa Fe Springs, CA 90670 Ph: 877-358-8825

