LED Troffer Retrofit Kit
Application and Specification Sheet | 2016

- Quick and Easy Installation
- Reduce Labor and Disposal Costs
- Maximize ROI and Payback Period
- Continuous Dimming 0-10V
- Ultra High Efficacy
- DLC Premium QPL
- Reduce Maintenance 75,000 Hours of Life
- 7-Year Limited Warranty

DLC PREMIUM

aleo™
LED LIGHTING
LTR™ Series
LED Troffer Retrofit Kit

Optical Diffuser
Precision-formed lens diffuser made of durable, high-grade PC or PMMA allows high-quality light emission and reduces glare. Provides comfortable illumination while maintaining efficiency. Easy removal for servicing.

Quick and Easy Installation
Installs in most troffer luminaires. Retrofit kit fits within troffer and ceiling T-bar grid, eliminating need to remove existing fixture housing. Reduce labor and disposal costs.

Features

Ultra High Efficacy
Optimized LED system that delivers up to 131 lm/W, enabling superior performance, increased light output and reduced energy consumption.

High Quality Engineering and Manufacturing
Engineered to deliver performance, manufactured to last. Intensive quality control, precision manufacturing process, and experience component qualification ensure quality.

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

Better Quality Light
Reduced glare, high color quality (CRI>83), consistent color, and improved optical performance.

Performance Qualifications
DLC Premium QPL listed.

Benefits

Improve ROI and Payback
The high-efficiency retrofit kit offers the advantages of considerable energy savings, lower labor installation costs, reduced disposal costs, and rebate incentive opportunities present incredibly attractive ROI and payback periods.

Reduced Maintenance
Long life LED system reduces maintenance costs. Modular LED engine and driver allows for convenient servicing and replacement, eliminating the need to replace luminaire housing.

Lower Operating Cost
Extreme efficiency, dimmability, sensor-capability, and cooler operation reduces energy demand and increases energy savings.

Utility Rebate Opportunities
Potential for faster payback and increased ROI with potential utility rebate qualifications to offset initial costs and decrease capital expenditure. Check with Aleo rep and local utility for details.

Improved Space
Luminaire offers better illumination to spaces, potentially improving occupant comfort, employee productivity, retail appeal, safety and security.
Performance Highlights

<table>
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<tr>
<th>Performance Highlights</th>
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<tr>
<td>Efficacy</td>
</tr>
<tr>
<td>Rated Life</td>
</tr>
<tr>
<td>Warranty</td>
</tr>
<tr>
<td>CRI</td>
</tr>
<tr>
<td>Available CCT$^1$</td>
</tr>
<tr>
<td>L70$^3$</td>
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<tr>
<td>Dimming</td>
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<tr>
<td>Qualifications</td>
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<tr>
<td>Certification</td>
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Luminaire Quick Disconnect
Comes equipped with luminaire quick disconnect for safety and code compliance.

Industry-leading Warranty
Backed by 7-year limited warranty. Leading design and engineering, state-of-the-art manufacturing, and premium components ensure system longevity.

Finish
High-quality post-painted powder coating allows easy handling and installation. No rough edges. High-reflectivity coating improves optics and reflectivity.

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

LED System
LTR Retrofit Kit utilizes high-performance components to deliver industry-leading efficacy and reliability. Modular LED modules and driver allow for serviceability and maintenance.

Electrical
LED driver with constant current design optimized for efficiency. System engineered and designed to run at cool temperatures, improving life and reliability.

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.

Form Factor Selection

- **2x2 18W | 25W**
- **2x4 36W | 44W**

Aleo Lighting, Inc. | www.aleolighting.com | Ph: 877-358-8825
**LTR™ Series**

**LED Troffer Retrofit Kit**

The Aleo LTR™ 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 feature highly reflective coating and delivers balanced, comfortable illumination 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**

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 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.

**Product Dimensions**

**LTR-22**

- 52.6” (1336mm) x 23.9” (606mm)
- 2.77” (70.4mm) x 1.81” (46mm)

**LTR-24**

- 47.8” (1214mm) x 23.9” (606mm)
- 2.77” (70.4mm) x 1.81” (46mm)
**Performance Summary**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Input Voltage</td>
<td>120V-277V</td>
</tr>
<tr>
<td>Input Frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>CRI</td>
<td>83+, R9 &gt; 0</td>
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<tr>
<td>Available CCT</td>
<td>4000K</td>
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<tr>
<td>Rated Life</td>
<td>75,000 hours</td>
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<tr>
<td>L70</td>
<td>&gt; 72,000 hours</td>
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<tr>
<td>Power Factor</td>
<td>&gt; 0.9</td>
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<tr>
<td>THD</td>
<td>&lt; 20%</td>
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<tr>
<td>Dimming</td>
<td>0-10V Continuous (10-100%)</td>
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**Ordering Information**

Example: LTR-24LE-36/840

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<thead>
<tr>
<th>LTR</th>
<th>24</th>
<th>LE</th>
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<tbody>
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<td>Form Factor</td>
<td>Lumen Package</td>
<td>Rated Wattage</td>
<td>CRI</td>
<td>Color Temp</td>
<td>Input Voltage</td>
<td>Dimming</td>
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<tr>
<td>LTR</td>
<td>22</td>
<td>2'x2'</td>
<td>2'x2'</td>
<td>18</td>
<td>83+</td>
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<td>24</td>
<td>2'x4'</td>
<td>Low Wattage</td>
<td>36</td>
<td>4000K</td>
<td>120V-277V</td>
<td>0-10V Continuous</td>
<td></td>
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</tbody>
</table>

**Options**

- **Emergency Backup**
  - EM500: 500lm
  - EM700: 700lm
  - EM1400: 1400lm

- **Controls**
  - WA: Fixture-integrated high-end trim
LTR™ Series

Improve occupant comfort, employee productivity, retail appeal, patient healing, student alertness, corporate image with improved lighting quality and architectural aesthetics.

Commercial Office Spaces

Education and Classroom

Corporate Campus
LTR™ Series

LED Troffer Retrofit Solution

Versatile solution for drop-ceiling applications that require architectural aesthetics, significant energy-savings, and improved lighting quality.