LLS™ Series

LED Linear Strip Luminaire

Low profile design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for a myriad of applications.

Performance Anatomy  P. 6-7
Specification Guide    P. 8-9
Application Guide     P. 22-23
LLS™ Series
LED Linear Strip Luminaire

Features
- **Ultra High Efficacy**: Optimized LED system that delivers up to 134 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 Listed. 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.
- **Warranty**: 7-year Limited Warranty. See warranty documentation for more information.

Benefits
- **Deep Energy Savings**: The high-efficiency luminaire offers the advantages of considerable energy savings to replace traditional fluorescent systems. The combination of performance and value presents incredibly attractive RDI 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-compatibility, and cooler operation reduces energy demand and increases energy savings.
- **Utility Rebate Opportunities**: Potential for faster payback and increased RDI 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
- **Efficacy**: Up to 134 lm/W
- **Rated Life**: 75,000 hours
- **Warranty**: 7-year Limited Warranty
- **CRI**: 84+, R9 > 0
- **Available CCT**: 4000K, 5000K
- **L70**: > 72,000 hours
- **Dimming**: 0-10V Continuous (10-100%)
- **Qualifications**: DLC Premium QPL
- **Certification**: UL Listed

Advanced Lighting Controls
Integrated sensor option enables a smarter lighting system that detects motion and daylight, adapting light levels according to occupancy and ambient light levels. Advanced controls integration allows for increased energy demand reduction and savings. Specify lighting that adapts to the environment and occupancy.

Luminaire Quick Disconnect
Comes equipped with luminaire quick disconnect for safety and code compliance.

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

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

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.

LED System
LLS Luminaire 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.

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.

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

Ultra High Efficacy Optimized LED system that delivers up to 134 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 Listed. 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.

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

Deep Energy Savings The high-efficiency luminaire offers the advantages of considerable energy savings to replace traditional fluorescent systems. The combination of performance and value presents incredibly attractive RDI 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-compatibility, and cooler operation reduces energy demand and increases energy savings.

Utility Rebate Opportunities Potential for faster payback and increased RDI 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.
The Aleo LLS™ Series Linear Strip Luminaire delivers industry-leading performance with deep energy savings and continuous dimming. Low profile design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for a myriad of applications.

APPLICATIONS
Excellent for general utility applications: Parking garage, warehouse, offices, restrooms, storage units, stairwell.

Specification Features
Construction
Integral LED gear tray and reflector with driver on board allows for easy installation and handling. Luminaire features matte white durable finish. Diffuser requires no additional frame or fastener for easy installation.

Optical System
Reflector systems feature 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

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
Luminaire back housing includes holes and slots for various mounting methods.

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. Sensor accessory available: occupancy sensing with daylight cut-off.

Example: LLS-4HE-25/840 XE G3

Performance Summary

<table>
<thead>
<tr>
<th>Specification</th>
<th>LLS-4HE-25/840 XE G3</th>
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<tbody>
<tr>
<td><strong>Input Voltage</strong></td>
<td>120V-277V</td>
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<tr>
<td><strong>Input Frequency</strong></td>
<td>50/60 Hz</td>
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<td><strong>CRI</strong></td>
<td>84+</td>
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<td><strong>Available CCT</strong></td>
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<tr>
<td><strong>Rated Life</strong></td>
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</tr>
<tr>
<td><strong>Power Factor</strong></td>
<td>&gt; 0.9</td>
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<tr>
<td><strong>THD</strong></td>
<td>&lt; 20%</td>
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<tr>
<td><strong>Dimming</strong></td>
<td>0-10V Continuous (10-100%)</td>
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<td><strong>Operating Temp.</strong></td>
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Product Dimensions

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<tr>
<th>Series</th>
<th>LLS-4HE-25/840 XE G3</th>
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<tbody>
<tr>
<td><strong>Nom. Wattage</strong></td>
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<td><strong>Dimming</strong></td>
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<tr>
<td><strong>Emergency Backup</strong></td>
<td>EM700 700lm</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>OS, Occupancy Sensor</td>
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Ordering Information

<table>
<thead>
<tr>
<th>LLS Series</th>
<th>LLS-4HE-25/840 XE G3</th>
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<tbody>
<tr>
<td><strong>Options</strong></td>
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<tr>
<td><strong>Color Temp</strong></td>
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<tr>
<td><strong>Dimming</strong></td>
<td>Blank</td>
</tr>
<tr>
<td><strong>Emergency Backup</strong></td>
<td>EM700 700lm</td>
</tr>
</tbody>
</table>

Accessory Options

Emergency Battery Backup
Factory-installed, integrated emergency lighting system with battery backup. Auto battery recharge. 90 min. emergency operation with various lumen options

Integrated Sensor
Factory-installed occupancy sensor. Various options available: Standard sensor accessory comes with a side-mount On/Off, PIR occupancy sensor. Integrated sensor box also available. Multi-level sensor with daylighting function available
Super Slim LED Linear Strip Luminaire

Super Slim design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for an unbeatable value and a myriad of applications.

Performance Anatomy  P. 12-13
Speciﬁcation Guide   P. 14-15
Application Guide    P. 22-23
LED Super Slim Linear Strip Luminaire

**Features**

- **Ultra High Efficacy**: Optimized LED system that delivers up to 133 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 Listed. 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.
- **Warranty**: 7-year Limited Warranty. See warranty documentation for more information.

**Benefits**

- **Deep Energy Savings**: The high-efficiency luminaire offers the advantages of considerable energy savings to replace traditional fluorescent systems. The combination of performance and value presents 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-compatibility, 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**

- **Efficacy**: Up to 133 lm/W
- **Rated Life**: 75,000 hours
- **Warranty**: 7-year Limited Warranty
- **CRI**: 82+, R9 > 0
- **Available CCT**: 4000K, 5000K
- **L70**: > 72,000 hours
- **Dimming**: 0-10V Continuous (10-100%)
- **Qualifications**: DLC Premium QPL
- **Certification**: UL Listed

**Deep Energy-Savings | Super Slim Profile**

**LSX™ Series**

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

Quick and Easy Installation
Convenient luminaire install with mounting brackets (supplied).

LED System
LSX Luminaire 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.

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

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

Luminaire Quick Disconnect
Comes equipped with luminaire quick disconnect for safety and code compliance.

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

**Advanced Lighting Controls**

Integrated sensor option enables a smarter lighting system that detects motion and daylight, adapting light levels according to occupancy and ambient light levels. Advanced controls integration allows for increased energy demand reduction and savings. Specify lighting that adapts to the environment and occupancy.

**Safety**

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

**Industry-leading Warranty**

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

**Luminaire Quick Disconnect**

Comes equipped with luminaire quick disconnect for safety and code compliance.

**Finish**

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

**Performance Highlights**

- **Efficacy**: Up to 133 lm/W
- **Rated Life**: 75,000 hours
- **Warranty**: 7-year Limited Warranty
- **CRI**: 82+, R9 > 0
- **Available CCT**: 4000K, 5000K
- **L70**: > 72,000 hours
- **Dimming**: 0-10V Continuous (10-100%)
- **Qualifications**: DLC Premium QPL
- **Certification**: UL Listed
The Aleo LSX™ Series Super Slim LED Linear Strip Luminaire delivers industry-leading performance with deep energy savings and continuous dimming. Low profile design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for a myriad of applications.

**APPLICATIONS**
Excellent for general utility applications: Parking garage, warehouse, offices, restrooms, storage units, stairwell.

**Specification Features**

**Construction**
Integral LED gear tray and reflector with driver on board allows for easy installation and handling. Luminaire features matte white durable finish. Diffuser requires no additional frame or fastener for easy installation.

**Optical System**
Reflector systems feature 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

**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.

**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. Sensor accessory available: occupancy sensing with daylight cut-off.

**Product Dimensions**

**Input Voltage**
120V-277V

**Available CCT**
4000K, 5000K

**Rated Life**
> 72,000 hours

**Power Factor**
> 0.9

**THD**
< 20%

**Dimming**
0-10V Continuous (10-100%)

**Operating Temp**
-20°C to 40°C

**Accessories Options**
Integrated Sensor
Luminaire-integrated controller to adjust high-end output. Great for optimizing rebate opportunities and further slashing energy. Reduces inventory burden by reducing SKUs.
LSR™ Series

LED Linear Strip Retrofit Kit

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.

Performance Anatomy  P. 18-19
Specification Guide   P. 20-21
Application Guide    P. 22-23
LED Linear Strip Retrofit Kit

**LSR™ Series**

**High Efficacy**
Optimized LED system that delivers up to 132 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.

**Luminaire Quick Disconnect**
Comes equipped with luminaire quick disconnect for safety and code compliance.

**Deep Energy-Savings**
Increased light output and reduced energy consumption means significant energy savings.

**Improved Safety and Security**
Backed by 7-year limited warranty. Leading design and engineering, state-of-the-art manufacturing, and premium components ensure system longevity.

**Quick and Easy Installation**
Features universal mounting bracket to fit strips with 4-1/2” to 5-1/2” width. Includes safety cables for security and wiring. Installs on existing strip housing.

**Optical Diffuser Reflector**
Features highly reflective coating and delivers balanced, comfortable illumination for productive spaces. Diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission.

**Features**
- High Efficacy
- High Quality Engineering and Manufacturing
- Safety Certification
- Dimming
- Electrical
- Performance Highlights
- Form Factor Selection

**Benefits**
- Deep Energy Savings
- Reduced Maintenance
- Lower Operating Cost
- Utility Rebate Opportunities
- Improved Space
- Industry-leading Warranty

**Performance Highlights**
- Efficacy: Up to 132 lm/W
- Rated Life: 75,000 hours
- Warranty: 7-year Limited Warranty
- CRI: 83+, R9 > 0
- Available CCT: 4000K, 5000K
- L70: > 72,000 hours
- Dimming: 0-10V Continuous (10-100%)
- Qualifications: DLC Premium QPL
- Certification: UL Classified

**Form Factor Selection**
- 4’ 26 (23W)
- 8’ 48 (48W) | 65 (65W)

**Features**
- High Output Efficiency
- Improved Safety and Security

**Deep Energy-Savings**
The high-efficiency luminaire offers the advantages of considerable energy savings to replace traditional fluorescent systems. The combination of performance and value presents 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**
Extends efficiency, dimmability, sensor-compatibility, 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.
**LSR™ XE Series**

**LED Linear Strip Retrofit Kit**

The Aleo LSR™ XE Series Linear 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 LSR™ kit transforms utility strips into high-efficiency, architectural luminaires.

**APPLICATIONS**

Excellent for general utility applications to retrofit existing utility strip/channels. Parking garage, warehouse, offices, restrooms, storage units, stairwell.

**Specification Features**

**Construction**

Integral LED gear tray and reflector with driver on board allows for easy installation and handling. Luminaire features matte white durable finish. Diffuser requires no additional frame or fastener for easy installation.

**Optical System**

Reflector systems feature 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 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.

**Ordering Information**

Example: LSR-4HE-26/850 XE G3

<table>
<thead>
<tr>
<th>Series</th>
<th>Form Factor</th>
<th>Luminaire Package</th>
<th>Nom. Wattage</th>
<th>Color Temp</th>
<th>Dimming</th>
<th>Input Voltage</th>
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<tbody>
<tr>
<td>LLS</td>
<td>4</td>
<td>HE</td>
<td>26</td>
<td>8</td>
<td>83+</td>
<td>120V-277V</td>
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<td>0-10V Continuous</td>
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<td>8</td>
<td></td>
<td>66</td>
<td>5000K</td>
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</table>

**Options**

**Emergency Backup**

EM700 700lm
EM1400 1400lm

**Controls**

OS Occupancy Sensor
OSDL Occ. Sensor w/ Daylight
OSDL/IR Multi-Level Occ. Sensor w/ wireless config.

* Sensor will be fixture-mounted on the side of existing strip.
LLS, LSX and LSR Series

Improve safety and security, occupant comfort, retail appeal, worker productivity by providing better quality illumination. Implement smarter lighting solutions that deliver deep energy-savings and attractive ROI.
LED Retrofit Solutions

LVA™ Series

LED Linear Vapor Tight Luminaire

Energy-saving solution to surface-mount or suspended-mount applications, suitable for damp/wet location. Designed for performance

Performance Anatomy  P. 26-27
Specification Guide  P. 28-29
Application Guide  P. 30-31
LVA™ Series
LED Linear Vapor Tight Luminaire

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 Listed. All components have UL certification. UL Class 2.
- Better Quality Light
  Reduced glare, high color quality (CRI>83), consistent color, and improved optical performance.
- Performance Qualifications
  DLC Premium QPL listed.
- Warranty
  7-year Limited Warranty. See warranty documentation for more information.

Benefits
- Deep Energy Savings
  The high-efficiency luminaire offers the advantages of considerable energy savings to replace traditional fluorescent systems. The combination of performance and value presents 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-compatibility, 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>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tr>
<td>Efficacy</td>
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<td>Rated Life</td>
<td>75,000 hours</td>
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<tr>
<td>Warranty</td>
<td>7-year Limited Warranty</td>
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<tr>
<td>CRI</td>
<td>83+, R9 &gt; 0</td>
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<tr>
<td>Available CCT</td>
<td>5000K</td>
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<tr>
<td>L70h</td>
<td>&gt; 72,000 hours</td>
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<td>Dimming</td>
<td>0-10V Continuous (10-100%)</td>
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<td>Qualifications</td>
<td>DLC Premium QPL</td>
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<td>Certification</td>
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</table>

Advanced Lighting Controls
Integrated sensor option enables a smarter lighting system that detects motion and daylight, adapting light levels according to occupancy and ambient light levels. Advanced controls integration allows for increased energy demand reduction and savings.

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

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.

Safety Certification
UL Listed for safety. All components have UL certification. UL Class 2.

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

Advanced Lighting Controls
Integrated sensor option enables a smarter lighting system that detects motion and daylight, adapting light levels according to occupancy and ambient light levels. Advanced controls integration allows for increased energy demand reduction and savings.

Deep Energy-Savings | Improved Safety and Security

Luminaire Quick Disconnect
Comes equipped with luminaire quick disconnect for safety and code compliance.

Lumen Package
4' 40 (40W) | 52 (52W)
LVA™ Series

LED Linear Vapor Tight Luminaire

Aleo’s LVA™ series offers an attractive, energy-saving solution to surface-mount or suspended-mount applications, suitable for damp/wet location. Designed for performance and longevity at an unbeatable value. Manufactured for challenging situations where the fixture’s gasketed enclosure protects against dust, spray, humidity, and liquid.

APPLICATIONS

Excellent for general utility applications: Parking garage, warehouse, cold storage, wash-down areas, manufacturing facilities

Specification Features

Construction
Durable enclosure and lens offers protection against dust, jet spray, humidity and water intrusion. Latches ensure solid security from challenging environments.

Optical System
Reflector systems features highly reflective gear tray and delivers balanced, comfortable illumination 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

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

Performance Summary

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<td>Input Voltage</td>
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<tr>
<td>Input Frequency</td>
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<tr>
<td>Available CCT</td>
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<td>Rated_life</td>
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<td>L70B</td>
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<td>Operating Temp.</td>
<td>-20°C to 50°C</td>
</tr>
</tbody>
</table>

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
For surface-mount or suspension-mount. Equipped with mounting bracket. V-hook hangers available for suspension mount.

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.

Ordering Information

Example: LVA-4HE-40/850

<table>
<thead>
<tr>
<th>LVA</th>
<th>HE</th>
<th>25</th>
<th>B</th>
<th>40K</th>
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<tbody>
<tr>
<td>Series</td>
<td>Form Factor</td>
<td>Lumen Package</td>
<td>Nom. Wattage</td>
<td>CRI</td>
<td>Color Temp</td>
</tr>
<tr>
<td>LVA</td>
<td>4</td>
<td>4’</td>
<td>LE</td>
<td>40W</td>
<td>8</td>
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<tr>
<td>LED-Linear-Vapor-Tight-Luminaire</td>
<td>Low Wattage</td>
<td>High Lumen</td>
<td>25</td>
<td>52W</td>
<td>8</td>
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</tbody>
</table>

Options

- Latches
- Blank
- PC Latches

Accessory Options

Occupancy Sensor
PIR Occupancy Sensor with Daylight function Code-compliance.

Product Dimensions
LVA™ Series

Improve safety and security, occupant comfort, retail appeal, worker productivity by providing better quality illumination. Implement smarter lighting solutions that deliver deep energy-savings and attractive ROI.
LWS™ Series

LED Architectural Wrap Luminaire

The curved diffuser offers visually-pleasing illumination and aesthetics. This versatile luminaire transforms spaces with a high-end look, providing comfortable illumination for a myriad

Performance Anatomy P. 34-35
Specification Guide P. 36-37
Application Guide P. 50-51
LWSTM Series

LED Architectural Wrap Luminaire

Features

Ultra High Efficacy
Optimized LED system that delivers up to 130 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 Listed. 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.

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

Benefits

Deep Energy Savings
The high-efficiency luminaire offers the advantages of considerable energy savings to replace traditional fluorescent systems. The combination of performance and value presents 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
Extends efficiency, dimmability, sensor-compatibility, 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.

Optical Diffuser
Reflective systems feature highly reflective coating and delivers balanced, comfortable luminance for productive spaces. Curved, ribbed, diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission.

Quick and Easy Installation
Luminaire back housing includes holes and slots for various mounting methods. Suitable for suspension, surface, or pendant mount.

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

Luminaire Quick Disconnect
Comes equipped with luminaire quick disconnect for safety and code compliance.

Safety
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

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

Form Factor Selection

4’ 40 (40W)

Performance Highlights

Efficacy
Up to 130 lm/W

Rated Life
75,000 hours

Warranty
7-year Limited Warranty

CRI
82+, R9 > 0

Available CCT
4000K

L70
> 72,000 hours

Dimming
0-10V Continuous (10-100%)

Qualifications
DLC Premium QPL

Certification
UL Listed
LWS™ Series

LED Architectural Wrap Luminaire

The Aleo LWS™ series Architectural Wrap Luminaire delivers industry-leading performance with deep energy savings and continuous dimming. The curved diffuser offers visually-pleasing illumination and aesthetics. This versatile luminaire transforms spaces with a high-end look, providing comfortable illumination for a myriad of applications.

APPLICATIONS
Excellent for various surface-mounts and suspended applications: offices, conference rooms, restrooms, hallways, corridors, stairwells.

Specification Features

Construction
Modular LED and driver allows for serviceability and maintenance. Luminaire features matte white durable finish. 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

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
Luminaire back housing includes holes and slots for various mounting methods. Suitable for suspension, surface, or pendant mount.

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.

Performance Summary

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<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>82+, R9 &gt; 0</td>
</tr>
<tr>
<td>Available CCT</td>
<td>4000K</td>
</tr>
<tr>
<td>Rated Life</td>
<td>75,000 hours</td>
</tr>
<tr>
<td>L70</td>
<td>&gt; 72,000 hours or &gt; 45,000</td>
</tr>
<tr>
<td>Power Factor</td>
<td>&gt; 0.9</td>
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<tr>
<td>THD</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>Dimming</td>
<td>0-10V Continuous (10-100%)</td>
</tr>
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<td>Operating Temp.</td>
<td>-20°C to 50°C</td>
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</table>

Ordering Information

Example: LWS-4HE-40/840

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<tbody>
<tr>
<td>Series</td>
<td>Form Factor</td>
<td>Lumen Package</td>
<td>Nom. Wattage</td>
<td>CRI</td>
<td>Color Temp</td>
<td>Input Voltage</td>
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<td>2000lm</td>
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</table>

Accessory Options

Emergency Battery Backup
Factory-installed, integrated emergency lighting system with battery backup. Auto battery recharge. 90 min. emergency operation with various lumen options.

Product Dimensions

46” (1168mm)
9.7” (247mm)
3.5” (89mm)
Low profile design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for a myriad of applications.

Performance Anatomy  P. 40-41
Specification Guide  P. 42-43
Application Guide  P. 50-51
LWA™ Series
LED Commercial Wrap Luminaire

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

Performance Highlights
- Efficacy: Up to 130 lm/W
- Rated Life: 75,000 hours
- Warranty: 7-year Limited Warranty
- CRI: ≥ 83, R9 > 0
- Available CCT: 4000K
- L70: > 72,000 hours
- Dimming: 0-10V Continuous (10-100%)

Features
- Ultra High Efficacy
  - Optimized LED system that delivers up to 130 lm/W, enabling superior performance, increased light output and reduced energy consumption.
- High Quality Engineering and Manufacturing
  - Engineered to deliver performance, manufactured to last.
- Safety Certification
  - UL Listed. 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.
- Warranty
  - 7-year Limited Warranty. See warranty documentation for more information.

Benefits
- Deep Energy Savings
  - The high-efficiency luminaires offer the advantages of considerable energy savings to replace traditional fluorescent systems. The combination of performance and value presents an 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-compatibility, 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
  - Luminaires offer better illumination to spaces, potentially improving occupant comfort, employee productivity, retail appeal, safety and security.

Finish
- High-quality post-painted powder coating allows easy handling and installation. No rough edges.
  - High-reflectivity coating improves optics and reflectivity.
  - Luminaire Quick Disconnect
    - Comes equipped with luminaire quick disconnect for safety and code compliance.

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

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

Form Factor Selection
- 4' 40 (40W)

Deep Energy-Savings | Improved Safety and Security

Optical Diffuser
Reflector systems features highly reflective coating and delivers balanced, comfortable illumination for productive spaces. Diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission. Lens wraps around gear tray.

Quick and Easy Installation
Luminaire back housing includes holes and slots for various mounting methods.

LWA™ Series
LED Commercial Wrap Luminaire

Optical Diffuser
Reflector systems features highly reflective coating and delivers balanced, comfortable illumination for productive spaces. Diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission. Lens wraps around gear tray.

Quick and Easy Installation
Luminaire back housing includes holes and slots for various mounting methods.
LWA™ Series

LED Commercial Wrap Luminaire

The Aleo LWA™ Series Commercial Wrap Luminaire delivers industry-leading performance with deep energy savings and continuous dimming. Low profile design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for a myriad of applications.

APPLICATIONS
Excellent for general utility applications: storage closets, restrooms, hallways, corridors, stairwells.

Specification Features

Construction
Modular LED and driver allows for serviceability and maintenance. Luminaire features matte white durable finish. Diffuser requires no additional frame or fastener for easy installation.

Optical System
Reflector systems feature 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

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

Example: LWA-4HE-40/840

LWA Series Form Factor Lumen Package Nom. Wattage CRI Color Temp Input Voltage Dimming
4 HE 40 8 83+ 40K 120V-277V Blank

Electrical
Luminaire utilizes high-efficiency LED packages maintained at cool temperatures for long life, high efficacy. Reliable driver features continuous dimming. Universal voltage (120-277V) for convenient installation.

Installation / Mounting
Luminaire back housing includes holes and slots for various mounting methods.

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.

Emergency Options
Factory-installed, integrated emergency lighting system with battery backup. Auto battery recharge. 90 min. emergency operation with various lumen options.
Low profile design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for a myriad of applications.

Performance Anatomy  P. 46-47
Specification Guide  P. 48-49
Application Guide  P. 50-51
LWE™ ECO Series
LED Economy Utility Wrap Luminaire

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

Performance Highlights

- **Efficacy**: Up to 105 lm/W
- **Rated Life**: 75,000 hours
- **Warranty**: 7-year Limited Warranty
- **CRI**: 83+, R9 > 0
- **Available CCT**: 4000K
- **L70**: > 72,000 hours
- **Dimming**: 0-10V Continuous (10-100%)
- **Qualifications**: DLC Premium QPL
- **Certification**: UL Listed

Deep Energy-Savings
The high-efficiency luminaire offers the advantages of considerable energy savings to replace traditional fluorescent systems. The combination of performance and value presents 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-compatibility, 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.

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

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

Luminaire Quick Disconnect
Comes equipped with luminaire quick disconnect for safety and code compliance.

Safety
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.

Better Quality Light
Reduced glare, high color quality (CRI>85), consistent color, and improved optical performance.

Performance Qualifications
DLC Premium QPL listed.

Features

- **Ultra High Efficacy**: Optimized LED system that delivers up to 125 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 Listed. 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>85), consistent color, and improved optical performance.

Benefits

- **Deep Energy Savings**: The high-efficiency luminaire offers the advantages of considerable energy savings to replace traditional fluorescent systems. The combination of performance and value presents 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-compatibility, 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.

Optical Diffuser
Reflector systems feature highly reflective coating and delivers balanced, comfortable illumination for productive spaces. Curved, ribbed, diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission.

Quick and Easy Installation
Luminaire back housing includes holes and slots for various mounting methods.

4L 4' (42W)

Form Factor Selection

LWE™ Series
High Output Efficiency
Deep Energy-Savings | Improved Safety and Security

Luminaire Quick Disconnect
Comes equipped with luminaire quick disconnect for safety and code compliance.

Safety
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.

 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.

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

Electrical
Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Universal voltage (120-277V) for convenient installation.
LWE™ ECO Series
LED Economy Utility Wrap Luminaire

The Aleo LWE™ Series Economy Utility Wrap Luminaire delivers industry-leading value with deep energy savings and continuous dimming. Low profile design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for a myriad of applications.

Applications
Excellent for general utility applications: storage closets, restrooms, hallways, corridors, stairwells.

Specification Features

Construction
Modular LED and driver allows for serviceability and maintenance. Luminaire features matte white durable finish. Diffuser requires no additional frame or fastener for easy installation.

Optical System
Reflector systems features 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 Listed. 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.

Ordering Information
Example: LWE-4L-840 ECO

<table>
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<th>4</th>
<th>L</th>
<th>8</th>
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<td>LED Economy Utility Wrap Luminaire</td>
<td>40</td>
<td>4000K</td>
<td>120V-277V</td>
<td>Blink</td>
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</tbody>
</table>

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
Luminaire back housing includes holes and slots for various mounting methods.

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.

Emergency Battery Backup
Factory-installed, integrated emergency lighting system with battery backup. Auto battery recharge. 90 min. emergency operation with various lumen options.

Product Dimensions

Performance Summary

- Input Voltage: 120V-277V
- Input Frequency: 50/60 Hz
- CRI: 83+, R9 > 0
- Available CCT: 4000K
- Rated Life: 75,000 hours
- L70B: > 72,000 hours or > 45,000
- Power Factor: > 0.9
- THD: < 20%
- Dimming: 0-10V Continuous (10-100%)
- Operating Temp.: -20°C to 50°C
LWS, LWA, and LWE ECO Application Guide

Improve safety and security, occupant comfort, retail appeal, worker productivity by providing better quality illumination. Implement smarter lighting solutions that deliver deep energy-savings and attractive ROI.
<table>
<thead>
<tr>
<th>QPL Model No.</th>
<th>Product ID</th>
<th>Technical Req.</th>
<th>Classification</th>
<th>Primary Use</th>
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