

# ATX™ FELED SERIES NONMETALLIC LED LUMINAIRES

## STANDARD OR WITH EMERGENCY BATTERY BACKUP — INCREASED SAFETY

### FEATURES

- Available in 5000K or 4000K Color Temperatures
- Meets photobiological requirement for Risk Group 0 (RG0)
- Easy to retrofit in same mounting footprint as the Appleton FE Series nonmetallic fluorescent luminaires
- Full range of lumen outputs, with light distribution equivalent to the Appleton FE Series fluorescent luminaires
- Corrosion-resistant fiberglass reinforced polyester body and hinged polycarbonate lens
- High impact resistance housing (20 Joules – IK10) from -30 °C to +55 °C (-22 °F to +131 °F) ambient temperature and wind profile for use in extreme offshore and onshore environments
- Reported L70 > 100,000 hours at +30 °C (+86 °F)
- Lightweight design, hinged cover with captive screws, and terminal block wiring for easy installation and maintenance
- Contemporary, low profile design suitable for tight spaces
- Standard screw-type terminal block can accept 4 mm<sup>2</sup>/6 mm<sup>2</sup> (flexible/ rigid) wire
- Field replaceable LED driver
- Industry-leading thermal management for safe, reliable operation over wide temperature range
- Universal, high efficiency, drivers cover voltage requirements for 120-277 Vac, 125-300 Vdc, 50/60 Hz +/-10%
- High power factor electronic driver (>0.95)
- Standard 6 kV surge suppression
- M20 plug or M25 plug provided

- Latch assembly and elastomer gasket seals against water and dust ingress, IP66
- Easily accessed for maintenance using Allen key or straight blade screwdriver
- Central opening with unique patented release system to prevent damage
- Can be horizontally or vertically mounted
- Available in 3 hour emergency version, including built-in monthly self test. Test results through multi-colored LED
- Available for 3K and 5K lumen models only
- Positive safety switch disconnects power to LED's and driver to allow maintenance in hazardous locations (emergency version)
- Ex e battery with plug-in connector

### WARRANTY

- 5 year standard warranty.

### TYPICAL APPLICATIONS

- Oil refineries
- Petrochemical facilities
- Food processing plants
- Waste and water treatment plants
- Underground tunnels
- General manufacturing facilities
- Hydrogen and Biofuels plants
- LNG (Liquid Natural Gas) plants
- For use in locations where:
  - Hazardous areas are designated as Zone 1 and 2 – 21 and 22
  - A high degree of corrosion resistance is required
  - Protection against dirt, water and moisture is necessary



FELED3 and FELED4



FELED5 and FELED7

### LUMINAIRE MATERIALS

- Housing: fiberglass reinforced polyester
- Lens: polycarbonate
- Diffuser: polycarbonate
- Gasket: elastomer
- Internal reflector: highly reflective white polycarbonate (standard versions) or powder coated aluminum (emergency versions)
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

### ATEX/UKEX/IECEX LISTINGS

- Zone 1 and 2 - 21 and 22 | Ⓢ II 2 GD | IP66 | IK10

### RELATED PRODUCTS

- FNLED

### PRODUCT SPECIFICATIONS

Series Lumen Output	FELED3	FELED4	FELED5	FELED7
Input Power (W, @230 V)	31	44	50	75
Equivalencies (W, Fluorescent)	3x18W	2x36W	3x36W	3x58W
Nominal Lumens ❶	3058	4196	5290	7181
Efficacy (up to, lm/W) ❶	133	130	160	124
Color Temperature (CCT) (K)	5000 / 4000			
Color Rendering Index (CRI)	≥ 70 CRI (5000K)   ≥ 80 CRI (4000K)			
Voltage	120-277 Vac, 50/60 Hz; 125-300 Vdc			
Surge Protection	6 kV			
L70 Lifetime (hrs, reported)	> 100,000 hours at +30 °C (+86 °F)			
Ambient Temperature ❷	-30 °C to +55 °C (-22 °F to +131 °F)			
Temperature Code ❷	T4			
Fixture Weight - kg (lbs)	4.5 (9.9)	4.5 (9.9)	8.5 (18.7)	10.5 (23.0)
Replaceable Parts	Drivers, Replacement Lens, Battery Pack, and Fuse Assembly			

❶ Nominal lumens based on Type V optics, 5000K CCT with clear glass lens. Refer to catalog pages for detailed performance.

❷ Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/certification. High ambient max temperature may vary from +70 °C to 75 °C (+158 °F to +167 °F).

**APPLETON™**

For product information:  
www.masteringled.com  
1.800.621.1506



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# ATX™ FELED SERIES NONMETALLIC LED LUMINAIRES

## STANDARD OR WITH EMERGENCY BATTERY BACKUP — INCREASED SAFETY

Project Information	Specifications
Part Number: _____ Date: _____	_____
Project: _____	_____
Fixture Type: _____	_____

### CATALOG NUMBERING GUIDE

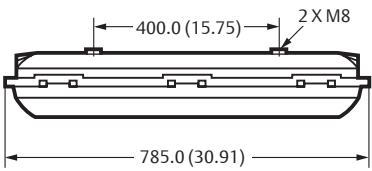
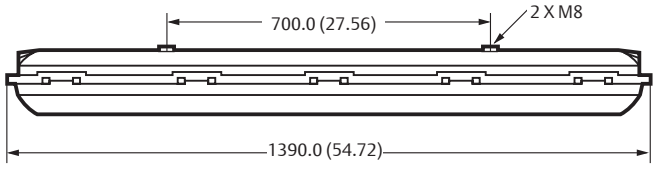
Series Prefix	Lumen Output	Color Temperature	Voltage	Mounting Version	Cable Entry	Options
FELED			BU			

<b>SERIES PREFIX:</b> <b>FELED</b> Zone 1, 2, 21, 22 ATEX/UKEX/IECEx Certified	<b>COLOR TEMPERATURE:</b> <b>C</b> 5000K (Cool) <b>N</b> 4000K (Neutral) <b>VOLTAGE:</b> <b>BU</b> 120-277 Vac, 50/60 Hz; 125-300 Vdc	<b>MOUNTING VERSION: ②</b> <b>S</b> Surface/Suspension Mount Standard Wiring (single phase) <b>L</b> Surface/Suspension Mount Dual Loop In/Out Through Wiring (single phase)	<b>CABLE ENTRY:</b> <b>A</b> Armored M20 ③ <b>N</b> Unarmored M25 ④ <b>OPTIONS:</b> <b>D</b> Diffused ⑤ <b>E</b> 3H Emergency (combined) ⑥ <b>F</b> Cutoff Switch ⑦
<b>LUMEN OUTPUT: ①</b> <b>3</b> 3K <b>4</b> 4K <b>5</b> 5K <b>7</b> 7K			

- ① All lumen values are typical (tolerance +/- 10%).
- ② Standard and Loop In/Out cable entries provide 3 entries; 1 at one and 2 at the other end of the housing.
- ③ Must order armored cable glands separately. M20 entries are with brass earth continuity plate for armored cable.
- ④ Cable glands provided in luminaires with unarmored hub entries.
- ⑤ Diffuser required.
- ⑥ Available for 3K and 5K lumen models only.
- ⑦ Select to have cutoff switch with standard model. Cutoff Switch included with Emergency option.

### DIMENSIONAL DRAWINGS ① | MILLIMETERS (INCHES)

FELED *2 to FELED *4	FELED *5 to FELED *7	FELED *2 to FELED *7
<b>Side View</b> 	<b>Side View</b> 	<b>End View</b> 