

ATX™ FELED SERIES NONMETALLIC LED LUMINAIRES

STANDARD OR WITH EMERGENCY BATTERY BACKUP — INCREASED SAFETY

FEATURES

- Available in 5000K or 4000K Correlated 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:

+25 °C (+77 °F)	Reported	>102,000
	Calculated	400,000
+55 °C (+131 °F)	Reported	>102,000
	Calculated	260,000

- 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 mm²/6 mm² (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.
- 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 ①

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

RELATED PRODUCTS

- FNLED

① Refer to catalog pages for detailed certification information.

PRODUCT SPECIFICATIONS

Series Lumen Output	FELED3	FELED4	FELED5	FELED7
Input Power (W, @230 V)	30	44	47	75
Equivalencies (W, Fluorescent)	3x18W	2x36W	3x36W	3x58W
Nominal Lumens ①	3345	4196	5394	7181
Efficacy (up to, lm/W) ①	109	95	115	96
Color Temperature (CCT) (K)	5000 / 4000			
Color Rendering Index (CRI)	≥80 CRI (5000K, 4000K)	>70 CRI (5000K) ≥80 CRI (4000K)	≥80 CRI (5000K, 4000K)	≥80 CRI (5000K, 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 ②	-30 °C to +55 °C (-22 °F to +131 °F)			
Temperature Code ②	T4 or T5			
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			

① Based on Type V optics, 5000K CCT, clear globe with internal diffuser. Refer to catalog pages for detailed performance.

② 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


EMERSON™

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	Diffuser	Emergency	Cutoff Switch
FELED			BU					

SERIES PREFIX: FELED Zone 1, 2, 21, 22 ATEX/IECEX LUMEN OUTPUT: ① 3 3K 4 4K 5 5K 7 7K COLOR TEMPERATURE: C 5000K (Cool) N 4000K (Neutral)	VOLTAGE: BU 120-277 Vac, 50/60 Hz; 125-300 Vdc MOUNTING VERSION: ② S Surface/Suspension Mount Standard Wiring (single phase) L Surface/Suspension Mount Dual Loop In/Out Through Wiring (single phase)	CABLE ENTRY: A Armored M20 ③ N Unarmored M25 ④ DIFFUSER: Blank No Diffuser ⑤⑥ D Diffused	EMERGENCY: Blank No Emergency E 3H Emergency (combined) ⑥ CUTOFF SWITCH: Blank No Switch F Cutoff Switch ⑦
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- 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 Clear Globe with textured encapsulation lens (No Diffuser).
 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
Side View 	Side View 	End View

APPLETON™

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