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 FN Series nonmetallic fluorescent luminaires
- Full range of lumen outputs, with light distribution equivalent to the Appleton FN 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 1.5 to 6 mm^2 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 2, 21 and 22
  — A high degree of corrosion resistance is required
  — Protection against dirt, water and moisture is necessary

FNLED3 and FNLED4

FNLED5 and FNLED7

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

IEC / ATEX LISTINGS
- Zone 2, 21 and 22 | ⟨Ex⟩ II 3 GD, 2 D | IP66 | IK10

RELATED PRODUCTS
- FELED

PRODUCT SPECIFICATIONS

Series Lumen Output	FNLED3	FNLED3*E/R	FNLED4	FNLED4*E/R	FNLED5	FNLED7
Input Power (W, @230 Vac)	30	40	43	66
Equivalencies (W, Fluorescent)	3 x 18	2 X 36	1 X 58	3 X 58
Nominal Lumens ❶	3,300 | 650	4,300	5,100 | 650	7,000
Efficacy (up to, lm/W) ❶	107 | 107	105	106 | 106	106
Color Temperature (CCT) (K)	4000K | 5000K			
Color Rendering Index (CRI)	> 80 CRI			
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	Standard: -30 °C up to +55 °C (-22 °F up to +131 °F) | Emergency: -20 °C up to +50 °C (-4 °F up to +122 °F)			
Temperature Code ❷	T5 to T3			
Fixture Weight - kg (lbs)	5.0 (11.0) | 6.0 (13.0)	5.0 (11.0)	8.0 (17.5) | 10.0 (22.0)	8.75 (19.0)
Replaceable Parts	Lens, Drivers and Inverter, Battery Pack and BMM, Fuse Assembly, Brackets			

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).*

EMERSON™

CONSIDER IT SOLVED™

Project Information

Part Number: _____   Date: _____

Project: _____

Fixture Type: _____

Specifications

_____

_____

_____

_____

CATALOG NUMBERING GUIDE

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

FNLED			BU			

SERIES PREFIX:	
FNLED	Zone 2, 22 ATEX/IECEx Certified

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

OPTIONS:	
D	Diffused ⑤
E	3 Hour Emergency (combined) ⑥
F	Cutoff Switch ⑦
R	90M Non-maintained Emergency ⑧

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.
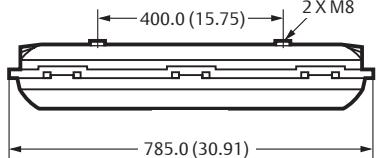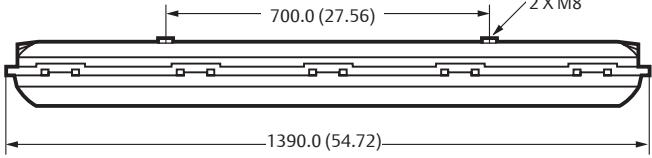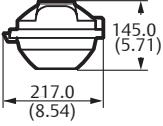④ Cable glands provided in luminaires with unarmored hub entries.
⑤ Diffuser required for direct.
⑥ Available for 3K and 5K lumen models only.
⑦ Select to have cutoff switch with standard model. Cutoff Switch included with Emergency option.
⑧ Non-maintained Emergency option includes 90 minutes of battery backup. To include cutoff switch, please order with -F option also. Ex: FNLED5CBUSAFR.

DIMENSIONAL DRAWINGS ❶ | MILLIMETERS (INCHES)

FNLED*2 to FNLED*4	FNLED*5 to FNLED*7	FNLED*2 to FNLED*7
Side View	Side View	End View

FNLED*2 to FNLED*4 — Side View: 400.0 (15.75), 2 X M8, 785.0 (30.91)

FNLED*5 to FNLED*7 — Side View: 700.0 (27.56), 2 X M8, 1390.0 (54.72)

FNLED*2 to FNLED*7 — End View: 145.0 (5.71), 217.0 (8.54)

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