

# CURRENTLY IN PHASE-OUT FLFE

- Zone 1, 2, 21, 22
- Excellent "CX" coefficient
- Easy re-lamping
- Designed to last over time

*"Ex e" terminal board housing*

*4 Joule shock resistant  
borosilicate glass*

*White painted  
reflector/frame*

*Silicone sealing*

*Simplified maintenance*





## FLFE series Lighting fixtures for fluorescent tubes

FLFE series lighting fixtures have two low copper content aluminium heads fitted with G13 lamp holder, a tempered borosilicate glass tube that is resistant to changes in heat and a white painted aluminium reflector. This lighting fixture features an "Ex e" terminal board housing that allows entry to the lamp with a cable gland with an "Ex" seal (normal) as specified in installation standard (EN/IEC 60079.14). The lighting fixture can be supplied in both the normal and emergency version. The round cross section of the lamp provides a better "Cx" coefficient with less resistance to the wind and less accumulation of dust. For this reason, these units are recommended for use in hazardous places where climatic and environmental conditions are severe and as they require less maintenance thanks to a very high ageing index. FLFE series has been designed to facilitate and speed up maintenance operations. As the electrical components are housed on a frame with guides, re-lamping is quick and efficient. The fact that the fixture is fitted with a glass tube as opposed to a plastic material, makes it more effective and with a longer lifespan.

### Application sectors:



Oil refineries



Chemical and petrochemical plants



Oil and combustible liquid depots



Offshore plants



Onshore plants



Stair handrails



Chemical Farm produce applications



100% Cortem product

### CERTIFICATION DATA

#### Classification:

Group II

Category 2GD

#### Installation: EN 60079.14

zona 1 - zona 2 (Gas)

zona 21 - zona 22 (Dust)

#### Marking:

CE 0722 Ex II 2GD Ex de IIC T6 Gb - Ex tb IIIC T67°C÷T80°C Db IP66

#### Certification:

ATEX CESI 09 ATEX 008

IEC Ex CES 11.0021

TR CU AVAILABLE

INMETRO DNV 12.0159

All IEC Ex, TR CU and INMETRO certification data can be downloaded at [www.cortemgroup.com](http://www.cortemgroup.com)

#### Standards:

CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-31: 2009 and EUROPEAN DIRECTIVE 2014/34/UE  
IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-7: 2007, IEC 60079-31: 2008  
European Directive 2006/95 Low voltage  
European Directive 2004/108 Electromagnetic compatibility  
European Directive 2003/108 WEEE Waste electrical and electronic equipment  
European Directive 2011/64 RoHS

#### Class temperature:



85°C (T6)

#### Ambient temperature:



Standard -20°C +55°C



With emergency -20°C +50°C

Special with emergency -20°C +55°C

#### Degree of protection

IP66

## FLFE series Lighting fixtures for fluorescent tubes



ORIGINAL PRODUCT

### MECHANICAL FEATURES

|                              |                                                                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Body:</b>                 | Low copper content aluminium alloy heads                                                                                                                         |
| <b>External tube:</b>        | Shock and high temperature resistant borosilicate glass                                                                                                          |
| <b>Gaskets:</b>              | Acid/hydrocarbon resistant NBR on covers                                                                                                                         |
| <b>Inner frame:</b>          | White painted aluminium that acts as reflector                                                                                                                   |
| <b>Bolts and screws:</b>     | Stainless steel                                                                                                                                                  |
| <b>Cap chain:</b>            | Stainless steel                                                                                                                                                  |
| <b>Mounting:</b>             | 2 x M8 holes                                                                                                                                                     |
| <b>Entries:</b>              | 2 x ISO M25 entries. Fixture kit with PLG2IB plug and NAV25IB cable gland                                                                                        |
| <b>Coating:</b>              | Epoxy coating Ral 7035 (Light grey)                                                                                                                              |
| <b>Corrosion Resistance:</b> | The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests) |

### ELECTRICAL FEATURES

|                         |                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Lamp holders:</b>    | Bi-pin G13                                                                                                                                                                    |
| <b>Ballast:</b>         | Single channel electronic                                                                                                                                                     |
| <b>Rated voltage:</b>   | 230 V AC                                                                                                                                                                      |
| <b>Rated frequency:</b> | 50/60 Hz                                                                                                                                                                      |
| <b>Connection:</b>      | Direct to the terminal board L, N, Pe section 4 mm <sup>2</sup> with jumpers suitable for input/output                                                                        |
| <b>Power factor:</b>    | 0.98                                                                                                                                                                          |
| <b>Emergency unit:</b>  | Electronic inverter 110/230V, 50/60Hz, 18...58W. Ni/Cd batteries, 4Ah or 7Ah, 6V, battery charging monitored by high luminosity red LED (estimated LED lifespan 50,000 hours) |
| <b>Wiring:</b>          | Silicone rubber cables with glass braid insulation for high temperatures                                                                                                      |
| <b>Safety:</b>          | Emergency safety switch fitted inside lighting fixture                                                                                                                        |

### ACCESSORIES AVAILABLE / SPECIAL REQUESTS

2 pin Ø26 fluorescent tubes model T8

Installation mounting brackets

Stainless steel or galvanized steel guard with external aluminium protection

External aluminium protection recommended for outdoor installations

Re-lamping bracket for use on in-line lighting fixtures

Rated voltage: 277 V with double channel electronic ballast (code FLFE-236EF4/**277**)

110/240 V with double channel electronic ballast (code FLFE-236EF4**S**)

Can also be supplied in single tube normal operation version: FLFE-118 / FLFE-136 / FLFE-158

Lighting fixture with emergency system and ambient temperature -20°C +55°C with batteries housed in junction box SA141410

Rated voltage: 24 Vdc only for normal operation (codice FLFE-118/**24**)

Execution with LED tubes from 22 W. Rated voltage: 220/240 Vac (Code FLFE-**122L** and FLFE-**222L**). LED tubes included.

Cable entry: 2 x ISO M20 holes. Lighting fixture with 1 model PLG1IB plugs and 1 model NAV20SIB cable glands for non-armoured cable (code FLFE-118EF4/**20**)

## FLFE series selection chart

### Double lamp

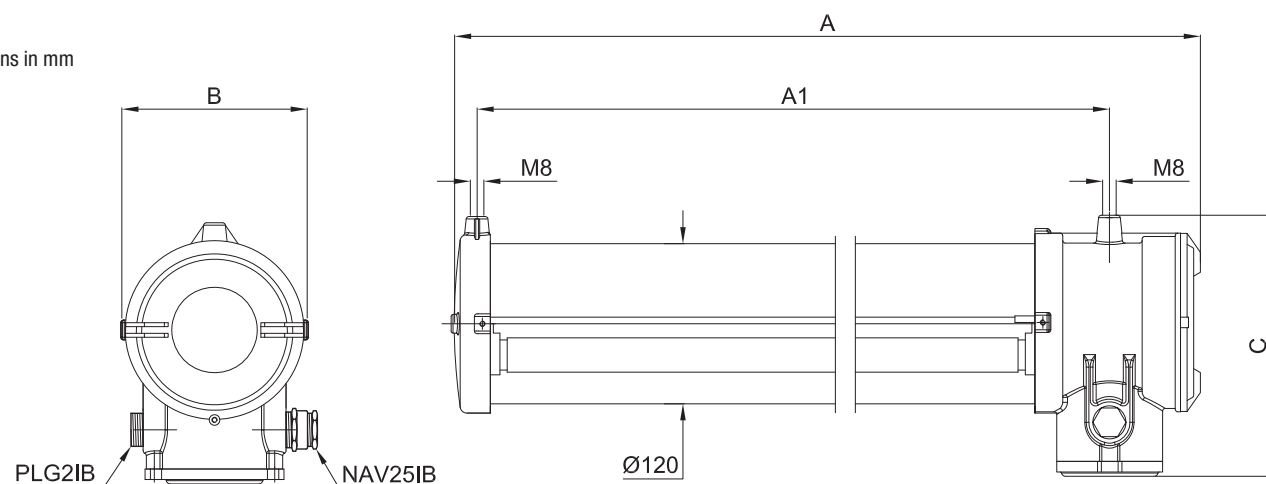
| Codice      | Dimensions mm |      |     |     | Operating type     | N° of lamps | Power supply    | Watt | Discharge time | Weight kg | mm           |
|-------------|---------------|------|-----|-----|--------------------|-------------|-----------------|------|----------------|-----------|--------------|
|             | A             | A1   | B   | C   |                    |             |                 |      |                |           |              |
| FLFE-218    | 725           | 640  | 142 | 197 | -                  | 2           | 230 V 50/60 Hz. | 18   | -              | 5,4       | 240x230x800  |
| FLFE-236    | 1325          | 1240 | 142 | 197 | -                  | 2           | 230 V 50/60 Hz. | 36   | -              | 7,5       | 240x230x1410 |
| FLFE-258    | 1625          | 1540 | 142 | 197 | -                  | 2           | 230 V 50/60 Hz. | 58   | -              | 10        | 240x230x1700 |
| FLFE-218EF4 | 725           | 640  | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 18   | 120'           | 6,1       | 240x230x800  |
| FLFE-236EF4 | 1325          | 1240 | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 36   | 90'            | 9,0       | 240x230x1410 |
| FLFE-258EF4 | 1625          | 1540 | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 58   | 70'            | 10,6      | 240x230x1700 |
| FLFE-218EF7 | 725           | 640  | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 18   | 200'           | 7,3       | 240x230x800  |
| FLFE-236EF7 | 1325          | 1240 | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 36   | 180'           | 9,4       | 240x230x1410 |
| FLFE-258EF7 | 1625          | 1540 | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 58   | 150'           | 12,9      | 240x230x1700 |

### Lighting fixture in emergency for loop-in loop-out execution (see methods of installation)

| Code          | Dimensions mm |      |     |     | Operating type     | N° of lamps | Power supply    | Watt | Discharge time | Weight kg | mm           |
|---------------|---------------|------|-----|-----|--------------------|-------------|-----------------|------|----------------|-----------|--------------|
|               | A             | A1   | B   | C   |                    |             |                 |      |                |           |              |
| FLFE-218EF4EE | 725           | 640  | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 18   | 120'           | 8,8       | 240x230x800  |
| FLFE-236EF4EE | 1325          | 1240 | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 36   | 90'            | 11,2      | 240x230x1410 |
| FLFE-258EF4EE | 1625          | 1540 | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 58   | 70'            | 13,5      | 240x230x1700 |
| FLFE-218EF7EE | 725           | 640  | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 18   | 200'           | 8,3       | 240x230x800  |
| FLFE-236EF7EE | 1325          | 1240 | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 36   | 180'           | 11,7      | 240x230x1410 |
| FLFE-258EF7EE | 1625          | 1540 | 142 | 197 | normal + emergency | 2           | 230 V 50/60 Hz. | 58   | 150'           | 14        | 240x230x1700 |

### DIMENSIONAL DRAWING

Dimensions in mm



# FLFE series selection chart

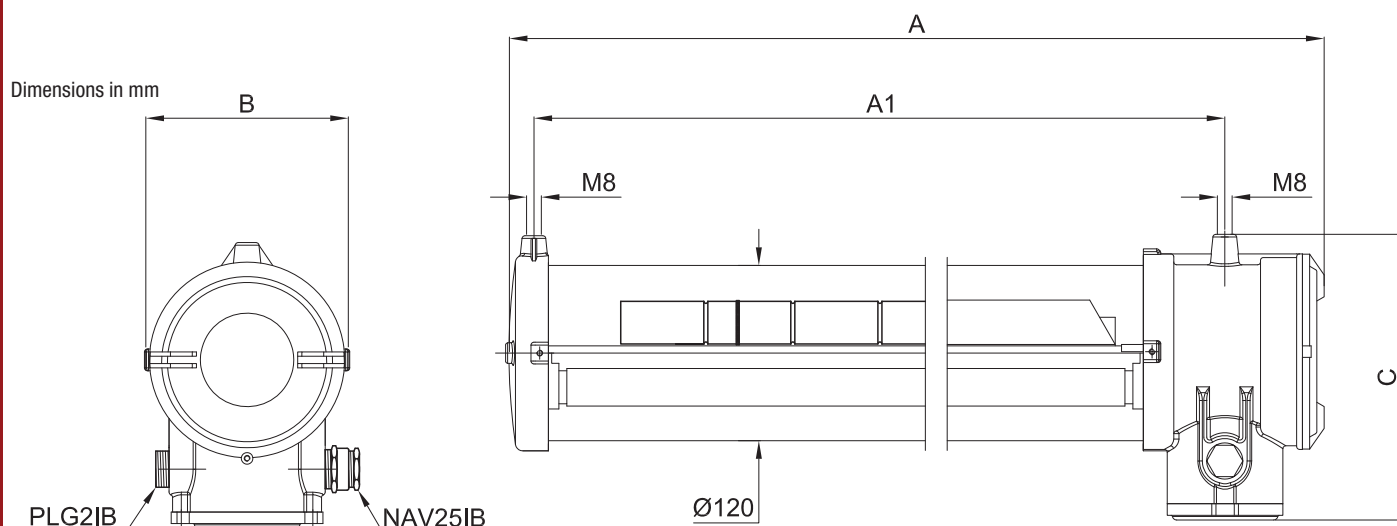
## Single lamp

| Code        | Dimensions mm |      |     |     | Operating type     | N° of lamps | Power supply    | Watt | Discharge time | Weight kg | <br>mm |
|-------------|---------------|------|-----|-----|--------------------|-------------|-----------------|------|----------------|-----------|-------------------------------------------------------------------------------------------|
|             | A             | A1   | B   | C   |                    |             |                 |      |                |           |                                                                                           |
| FLFE-118EF4 | 725           | 640  | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 18   | 120'           | 6,8       | 240x230x800                                                                               |
| FLFE-136EF4 | 1325          | 1240 | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 36   | 90'            | 10,2      | 240x230x1410                                                                              |
| FLFE-158EF4 | 1625          | 1540 | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 58   | 70'            | 12,5      | 240x230x1700                                                                              |
| FLFE-118EF7 | 725           | 640  | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 18   | 200'           | 7,3       | 240x230x800                                                                               |
| FLFE-136EF7 | 1325          | 1240 | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 36   | 180'           | 10,7      | 240x230x1410                                                                              |
| FLFE-158EF7 | 1625          | 1540 | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 58   | 150'           | 13        | 240x230x1700                                                                              |
| FLFE-118EE4 | 725           | 640  | 142 | 197 | emergency          | 1           | 230 V 50/60 Hz. | 18   | 120'           | 6,8       | 240x230x800                                                                               |
| FLFE-136EE4 | 1325          | 1240 | 142 | 197 | emergency          | 1           | 230 V 50/60 Hz. | 36   | 90'            | 8,9       | 240x230x1410                                                                              |
| FLFE-158EE4 | 1625          | 1540 | 142 | 197 | emergency          | 1           | 230 V 50/60 Hz. | 58   | 70'            | 12,5      | 240x230x1700                                                                              |
| FLFE-118EE7 | 725           | 640  | 142 | 197 | emergency          | 1           | 230 V 50/60 Hz. | 18   | 200'           | 7,3       | 240x230x800                                                                               |
| FLFE-136EE7 | 1325          | 1240 | 142 | 197 | emergency          | 1           | 230 V 50/60 Hz. | 36   | 180'           | 10,7      | 240x230x1410                                                                              |
| FLFE-158EE7 | 1625          | 1540 | 142 | 197 | emergency          | 1           | 230 V 50/60 Hz. | 58   | 150'           | 13        | 240x230x1700                                                                              |

## Lighting fixture in emergency for loop-in loop-out execution (see methods of installation)

| Code          | Dimensions mm |      |     |     | Operating type     | N° of lamps | Power supply    | Watt | Discharge time | Weight kg | <br>mm |
|---------------|---------------|------|-----|-----|--------------------|-------------|-----------------|------|----------------|-----------|---------------------------------------------------------------------------------------------|
|               | A             | A1   | B   | C   |                    |             |                 |      |                |           |                                                                                             |
| FLFE-118EF4EE | 725           | 640  | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 18   | 120'           | 8,8       | 240x230x800                                                                                 |
| FLFE-136EF4EE | 1325          | 1240 | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 36   | 90'            | 11,2      | 240x230x1410                                                                                |
| FLFE-158EF4EE | 1625          | 1540 | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 58   | 70'            | 13,5      | 240x230x1700                                                                                |
| FLFE-118EF7EE | 725           | 640  | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 18   | 200'           | 8,3       | 240x230x800                                                                                 |
| FLFE-136EF7EE | 1325          | 1240 | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 36   | 180'           | 11,7      | 240x230x1410                                                                                |
| FLFE-158EF7EE | 1625          | 1540 | 142 | 197 | normal + emergency | 1           | 230 V 50/60 Hz. | 58   | 150'           | 14        | 240x230x1700                                                                                |

## DIMENSIONAL DRAWING



## FLFE series selection chart

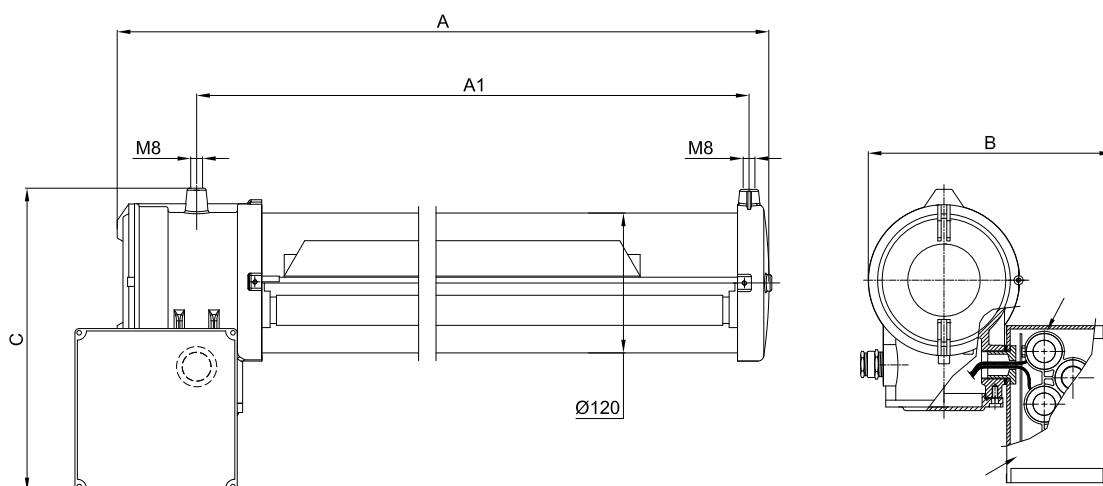
Lighting fixture in emergency for ambient temperature -20°C +55°C  
manufactured with batteries housed in junction box type SA141410

| Code         | Dimensions mm |      |     |     | Operating type    | N° of lamps | Power supply    | Watt | Discharge time | Weight kg | <br>mm |
|--------------|---------------|------|-----|-----|-------------------|-------------|-----------------|------|----------------|-----------|-------------------------------------------------------------------------------------------|
|              | A             | A1   | B   | C   |                   |             |                 |      |                |           |                                                                                           |
| FLFE-218EF4E | 725           | 640  | 223 | 273 | normale+emergenza | 2           | 230 V 50/60 Hz. | 18   | 120'           | 7,8       | 370x320x800                                                                               |
| FLFE-236EF4E | 1325          | 1240 | 223 | 273 | normale+emergenza | 2           | 230 V 50/60 Hz. | 36   | 90'            | 11,2      | 370x320x1410                                                                              |
| FLFE-218EF7E | 725           | 640  | 223 | 273 | normale+emergenza | 2           | 230 V 50/60 Hz. | 18   | 200'           | 8,3       | 370x320x800                                                                               |
| FLFE-236EF7E | 1325          | 1240 | 223 | 273 | normale+emergenza | 2           | 230 V 50/60 Hz. | 36   | 180'           | 11,7      | 370x320x1410                                                                              |

| Code         | Dimensions mm |      |     |     | Operating type     | N° of lamps | Power supply        | Watt | Discharge time | Weight kg | <br>mm |
|--------------|---------------|------|-----|-----|--------------------|-------------|---------------------|------|----------------|-----------|-------------------------------------------------------------------------------------------|
|              | A             | A1   | B   | C   |                    |             |                     |      |                |           |                                                                                           |
| FLFE-118EF4E | 725           | 640  | 223 | 273 | normal + emergency | 1           | 230 V 50/60 Hz.     | 18   | 120'           | 7,8       | 370x320x800                                                                               |
| FLFE-136EF4E | 1325          | 1240 | 223 | 273 | normal + emergency | 1           | 230 V 50/60 Hz.     | 36   | 90'            | 11,2      | 370x320x1410                                                                              |
| FLFE-118EF7E | 725           | 640  | 223 | 273 | normal + emergency | 1           | 230 V 50/60 Hz.     | 18   | 200'           | 8,3       | 370x320x800                                                                               |
| FLFE-136EF7E | 1325          | 1240 | 223 | 273 | normal + emergency | 1           | 230 V 50/60 Hz.     | 36   | 180'           | 11,7      | 370x320x1410                                                                              |
| FLFE-118EE4E | 725           | 640  | 223 | 273 | emergency          | 1           | 110/230 V 50/60 Hz. | 18   | 120'           | 7,8       | 370x320x800                                                                               |
| FLFE-136EE4E | 1325          | 1240 | 223 | 273 | emergency          | 1           | 110/230 V 50/60 Hz. | 36   | 90'            | 11,2      | 370x320x1410                                                                              |
| FLFE-118EE7E | 725           | 640  | 223 | 273 | emergency          | 1           | 110/230 V 50/60 Hz. | 18   | 200'           | 8,3       | 370x320x800                                                                               |
| FLFE-136EE7E | 1325          | 1240 | 223 | 273 | emergency          | 1           | 110/230 V 50/60 Hz. | 36   | 180'           | 11,7      | 370x320x1410                                                                              |

Execution only possible for 18W and 36W lighting fixtures

### DIMENSIONAL DRAWING



Dimensions in mm

### DON'T FORGET TO ORDER THE ACCESSORIES

**Example:** Type of lighting fixture +  
FLFE-218

Fluorescent tubes  
LAMPL18W21

+

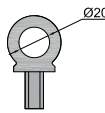
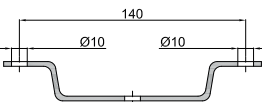
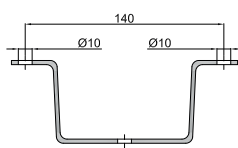
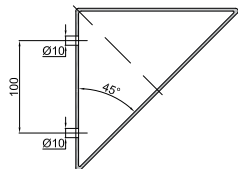
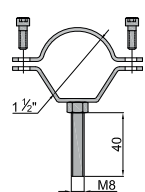
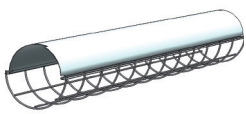
Installation bracket  
G-258

+

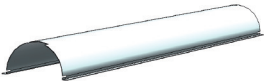
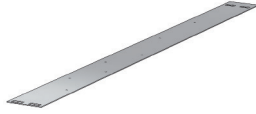
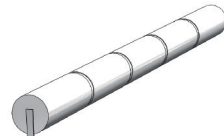
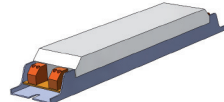
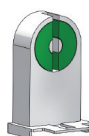
other... see key



## Accessori a richiesta e parti di ricambio serie FLFE...

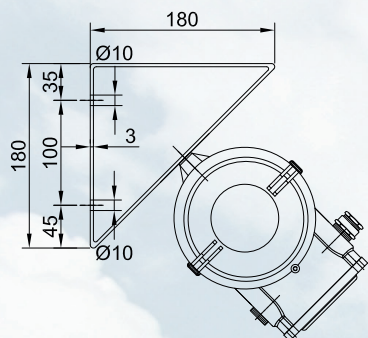
| ILLUSTRAZIONE                                                                       | DESCRIZIONE                                                             | MODELLO           | CARATTERISTICHE                                                | CODICE      | LEGENDA                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------|----------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Triphosphor fluorescent tubes G13 fitting 3.000K                        | 18 W              | 1350 lm (FD18W)                                                | LAMPL18W21  |       |
|                                                                                     |                                                                         | 36 W              | 3350 lm (FD36W)                                                | LAMPL36W21  |                                                                                                                                                                             |
|                                                                                     |                                                                         | 58 W              | 5200 lm (FD58W)                                                | LAMPL58W21  |                                                                                                                                                                             |
|    | Compact fluorescent tubes 2G11 fittings                                 | 36 W              | 2700 lm                                                        | LAMP-PLL36W |       |
|    | Tige                                                                    | Lunghezza: 250 mm | Material: stainless steel                                      | BRF8MIN/250 |       |
|    | Type O eyebolt                                                          |                   | Material: galvanised steel                                     | GOF-8       |       |
|   | Type U bracket complete with screws                                     |                   | Material: bracket: galvanised steel<br>screws: stainless steel | G-0609      |     |
|  | Type V bracket complete with screws                                     |                   | Material: bracket: galvanised steel<br>screws: stainless steel | G-0610      |   |
|  | Type D bracket complete with screws                                     |                   | Material: bracket: galvanised steel<br>screws: stainless steel | G-0611      |   |
|  | Type P bracket                                                          |                   | Material: galvanised steel                                     | G-0480      |   |
|  | Guard with Light blue/white painted 10/10 aluminium external protection | 18 W              | Stainless steel guard                                          | G18-0529    |   |
|                                                                                     |                                                                         | 36 W              |                                                                | G36-0529    |                                                                                                                                                                             |
|                                                                                     |                                                                         | 58 W              |                                                                | G58-0529    |                                                                                                                                                                             |
|                                                                                     |                                                                         | 18 W              | Galvanized steel guard                                         | G18-0529G   |                                                                                                                                                                             |
|                                                                                     |                                                                         | 36 W              |                                                                | G36-0529G   |                                                                                                                                                                             |
|                                                                                     |                                                                         | 58 W              |                                                                | G58-0529G   |                                                                                                                                                                             |

## Accessori a richiesta e parti di ricambio serie FLFE...

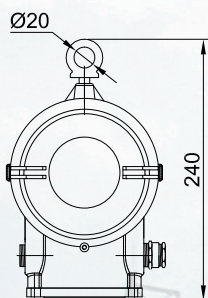
| ILLUSTRAZIONE                                                                       | DESCRIZIONE                                                                                | MODELLO              | CARATTERISTICHE                                                    | CODICE                  | LEGENDA                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | External protection                                                                        | 18W                  | Light blue/white painted<br>10/10 aluminium<br>external protection | G18-568                 |       |
|                                                                                     |                                                                                            | 36W                  |                                                                    | G36-568                 |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 58W                  |                                                                    | G58-568                 |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 18W                  | 10/10 stainless steel<br>AISI 304<br>external protection           | G18-568IN               |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 36W                  |                                                                    | G36-568IN               |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 58W                  |                                                                    | G58-568IN               |                                                                                                                                                                             |
|    | Cable gland                                                                                | ISO M25              | std. range cavo 11÷20                                              | NAV25IB                 |                                                                                          |
|    | Reflector inner frame                                                                      | 2 x 18 W             | Painted 20/10<br>aluminium                                         | G18-567                 |                                                                                          |
|                                                                                     |                                                                                            | 2 x 36 W             |                                                                    | G36-567                 |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 2 x 58 W             |                                                                    | G58-567                 |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 1 x 18 W             |                                                                    | G18-661                 |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 1 x 36 W             |                                                                    | G36-661                 |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 1 x 58 W             |                                                                    | G58-661                 |                                                                                                                                                                             |
|   | Battery pack                                                                               |                      | 4 Ah                                                               | BATT4AH/D               |                                                                                         |
|                                                                                     |                                                                                            |                      | 7 Ah                                                               | BATT7AH/D               |                                                                                                                                                                             |
|  | Battery pack<br>for execution with<br>batteries housed<br>in type SA141410<br>junction box | 18W e<br>36W         | 4 Ah                                                               | G0309B                  |                                                                                        |
|                                                                                     |                                                                                            |                      | 7 Ah                                                               | G-0309                  |                                                                                                                                                                             |
|  | Electronic ballast                                                                         | 2 x 18 W<br>2 x 36 W | 230 V<br>50/60 Hz                                                  | RV-236                  |                                                                                        |
|                                                                                     |                                                                                            | 1 x 18 W<br>1 x 36 W |                                                                    | RV-136                  |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 2 x 58 W             |                                                                    | R-258P                  |                                                                                                                                                                             |
|                                                                                     |                                                                                            | 1 x 58 W             |                                                                    | R-158P                  |                                                                                                                                                                             |
|  | Electronic inverter                                                                        |                      | 110/230 V<br>50/60 Hz                                              | INVERTER                |                                                                                        |
|  | Lamp holder                                                                                | FLFE-1..             | G13<br>250 V, 4 A                                                  | STU3249-12/S            |                                                                                        |
|                                                                                     |                                                                                            | FLFE-2..             |                                                                    |                         |                                                                                                                                                                             |
|  | Re-lamping bracket<br>with clip system for<br>use on in-line lighting<br>fixtures          |                      | Material:<br>galvanised steel                                      | G-0318<br>+<br>G-0318/1 |   |



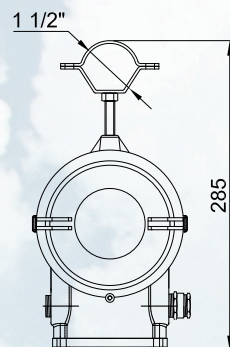
# Installation and mounting methods FLFE series



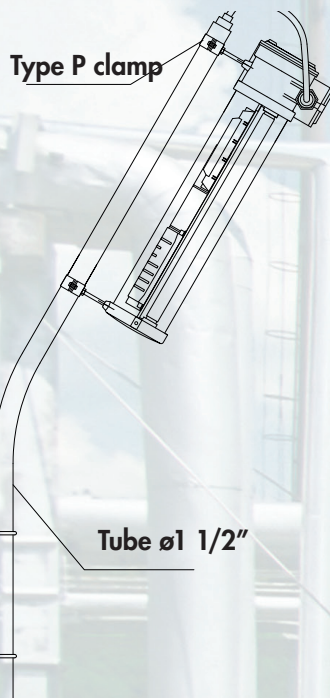
**45° angle mounting  
TYPE "D"**



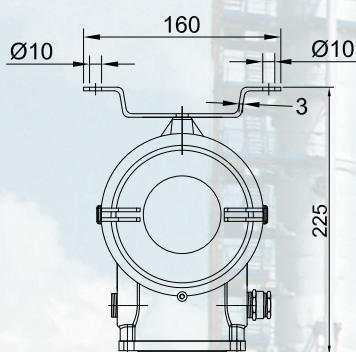
**Pendant mounting  
eyebolt TYPE "O"**



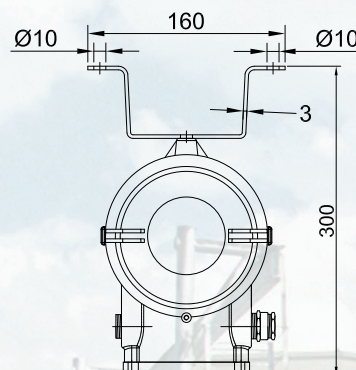
**Mounting using 1.1/2" metal clamps TYPE "P"**



**Pole mounting for FLFE with  
barrier cable gland**

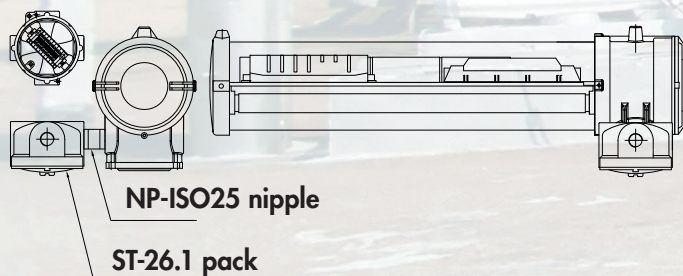


**Low ceiling mounting with  
clamp TYPE "U"**

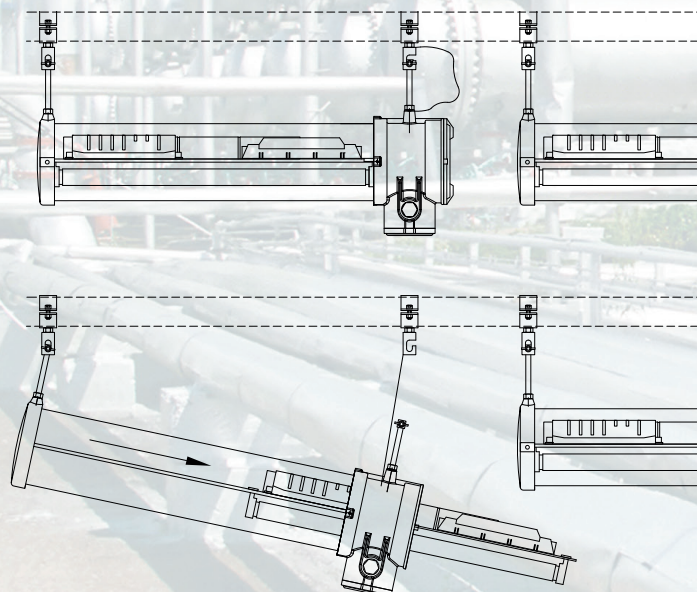


**High ceiling mounting with  
clamp TYPE "V"**

**Internal view**



**FLFE assembly in emergency for  
special execution with loop-in loop-out.**

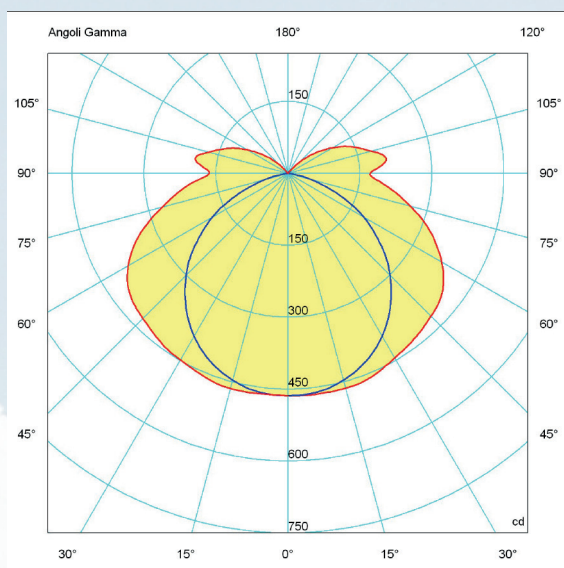


**Mounting system with release clip for easy fluorescent  
tube replacement. System adopted for installing  
in-line lighting fixtures.**

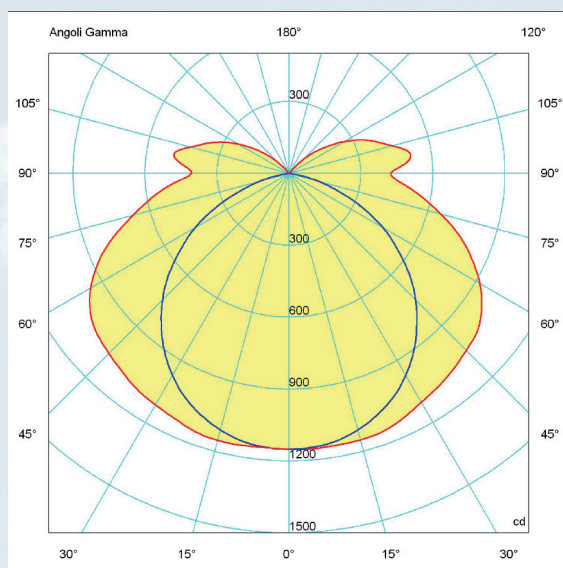
Dimensions in mm



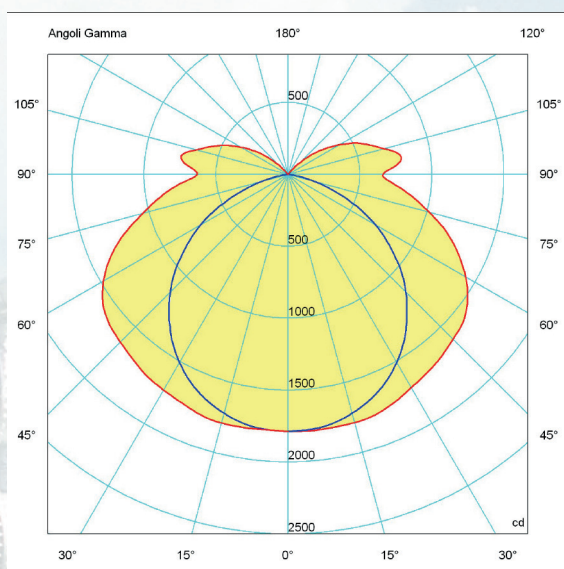
# Photometric diagrams



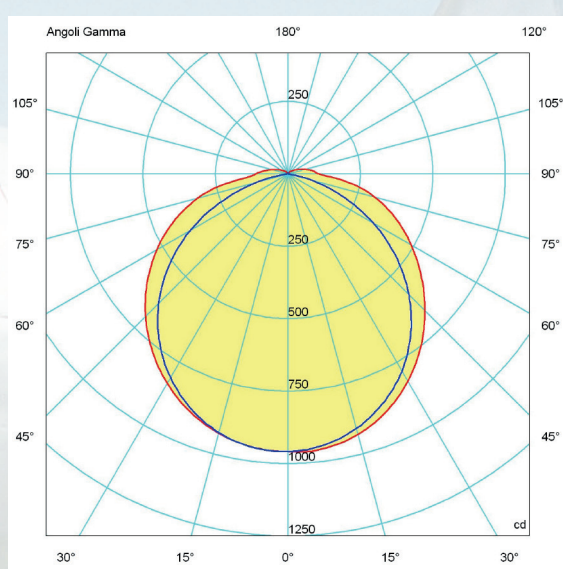
**FLFE-218**



**FLFE-236**



**FLFE-258**



**FLFE-222L**

On Cortem Group web site you can download .LDT and .IES lighting data files for the design and simulation of lighting levels in 2D and 3D, rendering and ray tracing.

— = plane 90270  
— = plane C 0180