

## Safety Notice

The manufacturer is discharged from liability when damage is caused by improper use or installation.

If any luminaire and/or accessory is subsequently modified, the persons responsible for the modification shall be considered as manufacturer.

## Product Information / Surge Protection

As an option, this luminaire can also be fitted with a surge protector of Type 2-3 (at the time of order). The technical data can be found directly on the installed device. If the surge protector has been triggered by an adverse event, the luminaire is automatically disconnected from the mains. In that case, the LED on the surge protector no longer lights up.

For comprehensive protection of the luminaire against lightning and electrical surges, primary (Type 1) and secondary (Type 2) surge arrestors must be installed into the power supply. We recommend a combination arrestor (Type 1+2+3), which is installed in the control cabinet.

The technical planner/installer is responsible for the proper selection, sizing and installation of the surge protection modules that must be provided on site. Please note the various protection levels for Class I and II, as well as the applicable statutory provisions regarding surge protection. Installation and maintenance may only be performed by a qualified electrician.

## Luminaire Replacement

The LED module can be replaced by qualified personnel with appropriate professional qualifications and with standard tools. To do this, disconnect the luminaire from the power supply and open it. Replace the LED module and close it again. Make sure that the seal is correctly positioned and close the luminaire carefully.



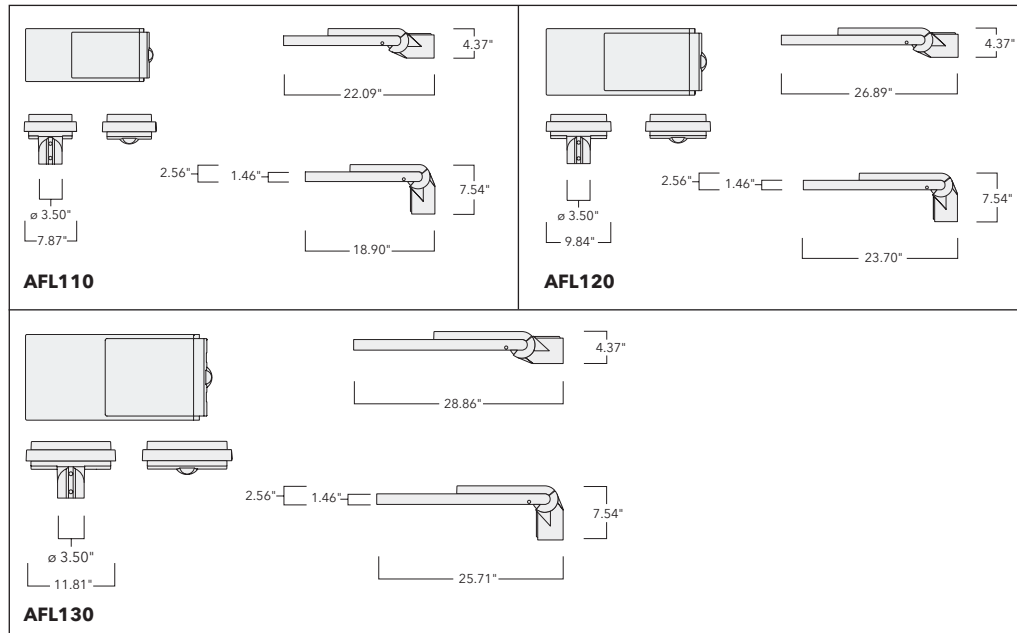
## WE-EF LIGHTING

Installation and  
Maintenance Instructions for  
Post Mounted Luminaire

**Series AFL100**

## Post Mounted Luminaire

IP66, IK08



**AFL110**

**AFL120**

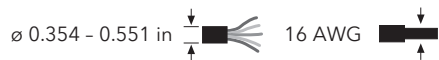
**AFL130**

### Light source

AFL110	8 LED 8W / 12W / 16W / 24W*
AFL110	16 LED 16W / 24W / 32W / 48W*
AFL120	24 LED 24W / 36W / 48W / 72W*
AFL130	48 LED 48W / 72W / 96W / 114W*

\* Nominal power, for latest data refer to [www.we-ef.com](http://www.we-ef.com)

Class I, II,  $t_a$  see table no. 8.



Mounting height ..... 10 - 26 ft

Weight

AFL110..... max. 10.4 lb

AFL120..... max. 15.3 lb

AFL130..... max. 19.0 lb

Windage area

AFL110..... max. 0.99 ft<sup>2</sup>

AFL120..... max. 1.57 ft<sup>2</sup>

AFL130..... max. 2.06 ft<sup>2</sup>

Installation: horizontal, light output downwards

### Installation

The product must be installed and maintained by a suitably qualified professional in compliance with latest building/construction and/or electrical regulations and relevant legislation.

**Attention!** Do not open luminaire while mains supply is switched on.

**Notice:** If the luminaire is modified by anybody other than the original manufacturer, then the warranty will no longer be valid and shall become the full responsibility of the modifying person/organisation. Claims based on defects attributable to improper installation and/or application, and the consequences thereof, are excluded.

In case of component failure, LED replacement due to abnormal circumstances or at end of life, replacement must be carried out by a suitably qualified and trained professional.

In case of questions please contact our technical hotline: +49 5194 909209 (from Monday - Friday from 08.00 until 16.00 hours).

### Maintenance

Apart from cleaning the product's exterior surfaces, no special maintenance work is required. Do not use high-pressure cleaners.

**IMPORTANT:** To clean the glass panel, we recommend isopropanol 99% diluted 1:1 with distilled water.

Protect our environment: Discard used LEDs in compliance with the most recent environmental legislation.

### Tools required

- Torx 10, 20, 30 & 45
- Screwdriver with blade 4x1 mm
- diagonal cutting pliers
- wire stripper
- 5 mm Allen key

**M3** Shield .....0.6 Nm (5.3 in-lb)

**M4** Driver .....1.0 Nm (8.9 in-lb)

**M8** Luminaire attachment..... 15 Nm (132.8 in-lb)

**M10** Pole attachment..... 10 Nm (88.6 in-lb)

## Installation Procedure

**Luminaire prewired, do not open!**

- 1) Switch off the mains electrical supply. ⚡



- 2) Cut cable to the corresponding height of the pole and connect cable to the connector **A** (fig. 1-6).

### WE-EF Eco Step Dim® Advanced / non-dimmable luminaires / Citygrid

Class I → Phase (L1) to 1, Neutral (N) to 3 and Earthing ⊕

Class II → Phase (L1) to 1, Neutral (N) to 3

### WE-EF Eco Step Dim® Basic

Class I → Phase (L1) to 1, Control Phase (L2) to 2, Neutral (N) to 3 and Earthing ⊕

Class II → Phase (L1) to 1, Control Phase (L2) to 2, Neutral (N) to 3

### 1-10V / DALI

Class I → Phase (L1) to 1, Neutral (N) to N, Control Phase (D+) to 2, Control Phase (D-) to 3 and Earthing ⊕

Class II → Phase (L1) to 1, Neutral (N) to 3, Control Phase (D+) to 2, Control Phase (D-) to 4

Compare the local voltage and frequency with data mentioned on the label of the luminaire.

Fasten the gland nut together, tightening to a torque of 5 Nm (44.3 in-lb) (fig. 5).

- 3) Pull the connecting cable through the pole. Place the luminaire on top of the pole and tighten the fixing screws **B**, tightening to a torque of 10 Nm (88.6 in-lb).

## WE-EF Supply Cable Connector Accessory Instructions

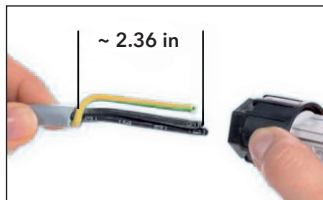


fig. 1

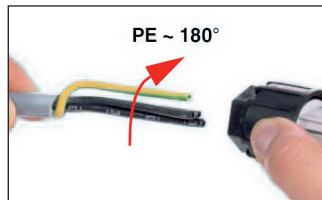


fig. 2

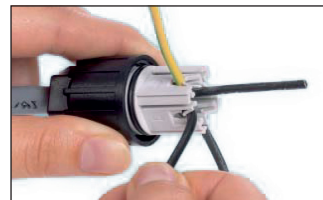


fig. 3



fig. 4



fig. 5

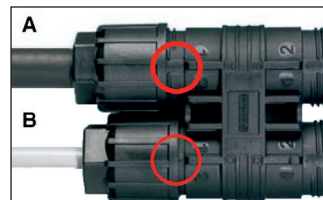
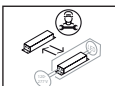
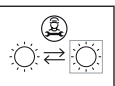


fig. 6

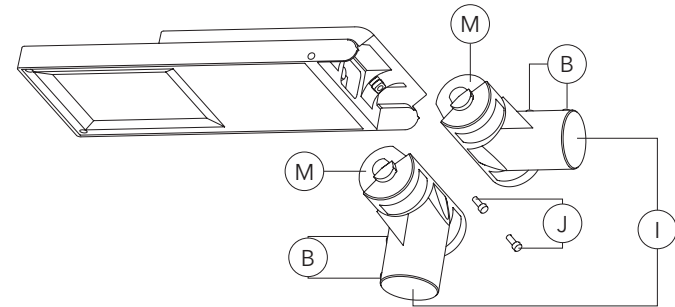


The photometric data was measured at an incline of 2.5°.

## Post Top and Side entry

Attachment **M** can be mounted vertically or horizontally. To change position loosen fasteners **J**, rotate by 180° and refasten.

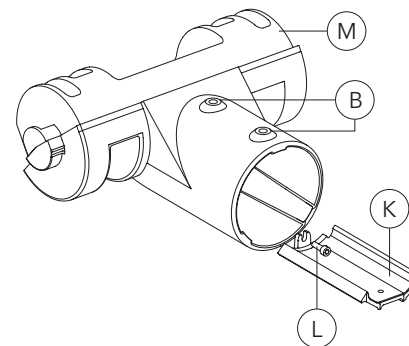
For vertical mounting, attachment can be set at 0° or 2.5° by loosening screws **J**. For horizontal mounting, attachment can be set at 0°, 2.5°, 5°, 7.5°, 10°, 12.5°, and 15°.



## Adaptor (to be ordered separately)

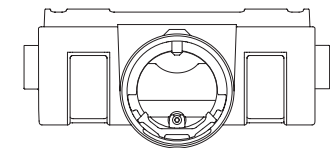
Using adaptor **K**, diameter can be reduced from 3 in to 2.36 in or 1.65 in.

Attach adaptor **K** with the fasteners **L** to **M**. See below for position. When using adaptor, the set screws **B** M10x10 must be replaced with the set screws **B** M10x20 supplied with the adapter.



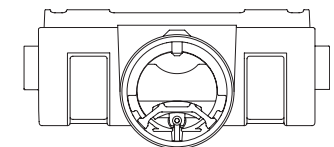
### Mounting Position

D = 2.36 in



### Mounting Position

D = 1.65 in

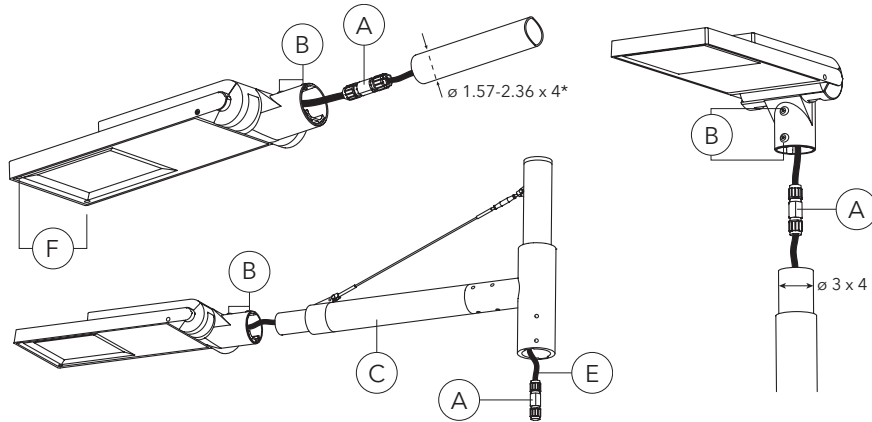


4a) Should cable connector **A** not fit through bracket **C** (**fig. 8**), then this must first be disassembled from the connecting lead. Connecting lead **E** can then be passed through the bracket **C**. Attach luminaire to bracket **C** and tighten fasteners **B** with an approximate torque of 10 Nm (88.6 in-lb). Re-assemble the cable connector **A** to bracket

4b) All brackets, that do not allow the cable connector to be passed through e.g., RX0, RL\_ or other adapters, must be directly wired through to the luminaire as follows:

Undo fasteners **F** on the frame. Open frame. Unplug cable connector **E** from **G**.

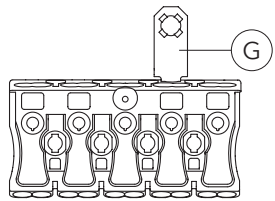
fig. 8



\*  $\varnothing$  2.36 x 4 adaptor **K** is required.

5) Undo fasteners **H** and remove cable connecting wire **E**. Feed main incoming cable through to fastener **H** and connect luminaire to bracket/adaptor. Fasten screw **H** (**fig. 10**). Connect the cut and unsheathed wire  $\varnothing$  0.354 - 0.472 in to connector **G** in line with wiring scheme. (**fig. 9**) Close frame and refasten **F** (**fig. 8**).

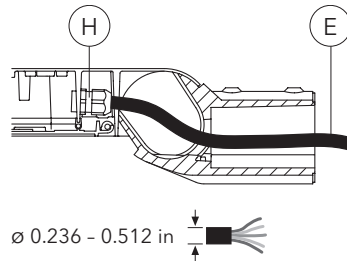
fig. 9



D+	D-	L1	⊕	N	DALI
	L2	L1	⊕	N	BASIC
		L1	⊕	N	ON/OFF ADVANCED CITYGRID

Wiring diagram luminaire

fig. 10



6) Pull the connecting cable through the pole. Attach luminaire on pole and tighten fasteners **B**, to a torque of 10 Nm (88.6 in-lb) (**fig. 8**).

7) **Disassembly of connector**

Switch from the mains electrical supply. To remove the conductor, gland nut should be completely unfastened and the splice removed from connector head with a bladed screwdriver (blade width 0.118 - 0.157 in), (**fig. 7**).

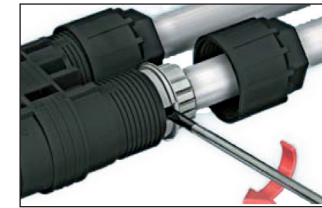


fig. 7

8) **Table max. temperatures AFL110 and AFL130**

AFL110 - 8 LED	
Leistung / Power	t <sub>a</sub>
8 W	50 °C / 122 °F
12 W	50 °C / 122 °F
16 W	50 °C / 122 °F
24 W	50 °C / 122 °F

AFL110 - 16 LED	
Leistung / Power	t <sub>a</sub>
16 W	50 °C / 122 °F
24 W	50 °C / 122 °F
32 W	50 °C / 122 °F
48 W	40 °C / 104 °F

AFL120	
Leistung / Power	t <sub>a</sub>
24 W	50 °C / 122 °F
36 W	50 °C / 122 °F
48 W	50 °C / 122 °F
72 W	40 °C / 104 °F

AFL130	
Leistung / Power	t <sub>a</sub>
48 W	50 °C / 122 °F
72 W	50 °C / 122 °F
96 W	50 °C / 122 °F
114 W	40 °C / 104 °F