

### 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.

**Notice:** In case the luminaire is equipped with an optional available surge protector, the function can get tested if the signal LED is lit green when the supply voltage is turned on.

In case the surge protector is defective, the LED device gets automatically disconnected from the mains supply. If the signal LED is not lit, the luminaire is not functioning.

For operation as color changer the floodlights of the FLC200-CC series require a DMX control signal. The operation without control signal may lead to error.

External boxes with LED driver are required for the CC luminaires.



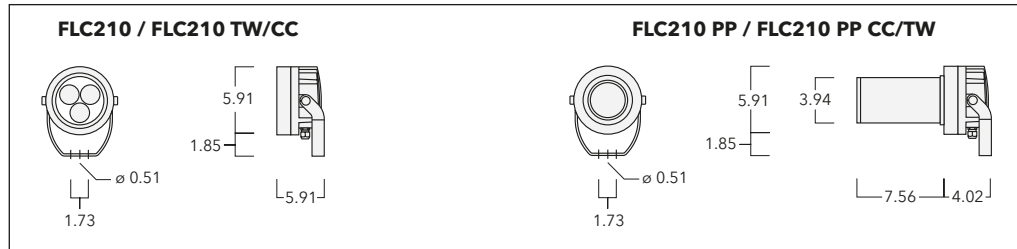
### WE-EF LIGHTING

Installation and  
Maintenance Instructions for  
Projector

**FLC210 LED**  
**FLC210 LED Profile Projector**

## Projectors

IP66, IK07



### Light source

FLC210 ..... 3 LED 6W / 9W / 12W

FLC210 PP ..... 18W / 26W

TW and CC luminaires are always with a driver box / operating device. For information and luminaire connection, see the attached connection/wiring diagram.

FLC210-TW ..... 3 LED 11W

FLC210 PP-TW ..... 10W

FLC210-CC ..... 3 LED 12W

FLC210 PP-CC ..... 15W

FLC210 ..... Class I, ta=25 °C

FLC210-TW ..... Class I, ta=25 °C

FLC210-CC ..... Class III

Windage area


FLC210 ..... 0.194 ft<sup>2</sup>

FLC210 PP ..... 0.377 ft<sup>2</sup>

Weight

FLC210 ..... max. 6.6 lb

FLC210 PP ..... max. 8.8 lb

∅ 0.177 - 0.394 in 

FLC210: 16 AWG

FLC210 CC/TW: 16 AWG 

### Tools required

- Screwdriver TX20 / TX25

### Driver boxes for operating the FLC210 / FLC210 PP

- 139-6978 Sep. Driver Box FLC210 TW

- 139-6979 Sep. Driver Box FLC210 CC

(Also available for through-wiring as an option)

### Accessories FLC210

- 139-2406 shield ES

- 139-2407 shield ET

- 139-2404 IO-180

- 139-2405 IW FLC210

### 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:** Switch off mains electrical supply prior to installing and connecting the luminaire. 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: +1 724 742 0030 (from Monday - Friday from 08.00 until 16.00 hours).

### Maintenance

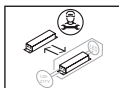
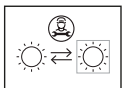
Apart from cleaning the product's exterior surfaces, no special maintenance work is required. Do not use high-pressure cleaners.

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

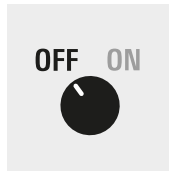
### Installation Procedure

1) Prior to electrical connection, proceed with mechanical installation by firmly fixing stirrup **A** to optional mounting accessory or directly to a suitable surface. Aim luminaire.

**ATTENTION:** Make sure not to damage any electric cable, water pipe or other devices while drilling holes.

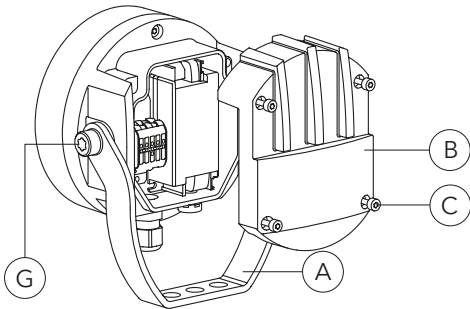


2) Switch off the mains electrical supply. ⚡



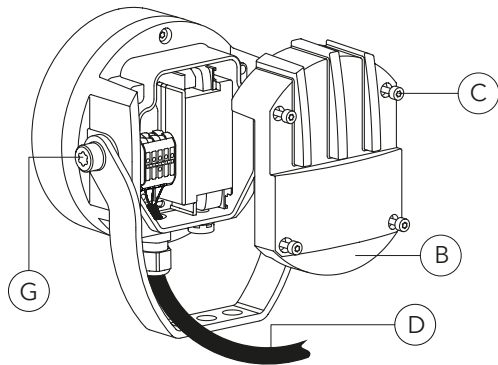
3) Loosen the screws **C** and remove the cover **B**.

4) Check that rating shown on the luminaire label conforms with the mains electrical supply.

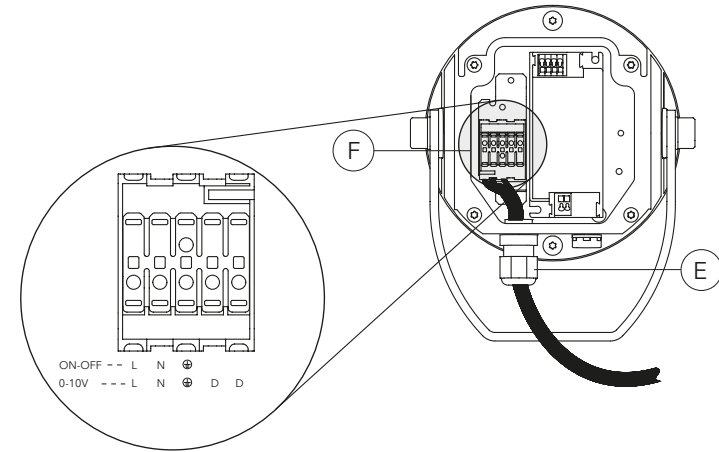


**we-ef** 12/17 IP66 CE  
**FLC210 LED** 120-277V / 60 Hz  
139-XXXX → SOE XXXXXXX  
LED 3000K XXW item no. XXX

5) Feed mains supply cable **D** through cable gland **E**.

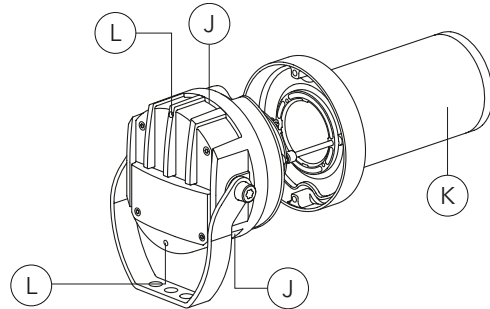


6) Connect to the correspondingly marked contacts of terminal **F**, according to the wiring diagram. Tighten cable gland **E** firmly. For connection and wiring diagram of CC-luminaires see separate connection diagram.



**Only for PP Version**

- 1) Loosen screws **J** (do not remove). To dismantle the frame (for setting or adjusting of the optical elements), always use the passage holes **L**. When adjusting the projector the cover must be firmly attached to the luminaire for safety reasons. Carefully remove the frame of the projector **K** towards the front.

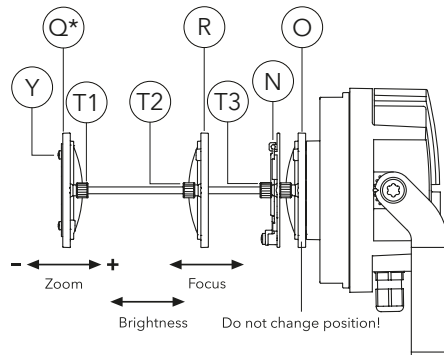


**Only for PP Version**

- 2) The retainer **N** with the desired insert always remains in the position set at the factory, also the retainer **O** (only available with CC / TW projectors). Do not change this Position!

**GP Version:** Holder **Y** with shield ID24.

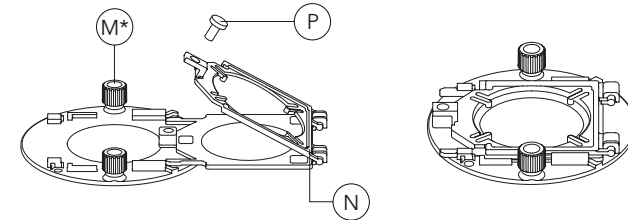
The projector is factory set at 33 ft distance.



**Only for PP Version**

2.1) **Gobo projector - [GP]**

Pull the gobo cassette out of the gobo holder. Loosen screw **P** on the gobo cassette, unfold the cassette and place gobo **M** (motif up to max.  $\varnothing$  38 mm) in the lower part **M**. Then close the cassette again and tighten screw **P** again. Now push the cassette back into the gobo holder. Gobo thicknesses up to 1.2 mm are permitted.



**Only for PP Version**

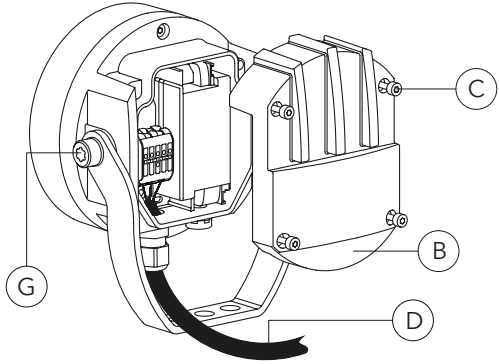
2.2) **Frame projector - [FP]**

The contour of the emitted light may be set with the four shutters **X** by using the contour slide in the retainer **N**. To do so, unscrew the thumb-screws **W2**, set the desired contour by moving the shutters **X** and tighten the fasteners **W2**. Frame size in the projector max.: 30 mm; min.: 11 mm

- 7) After setting the projector, slide the frame **K** back on and tighten the screws **J**.



8) Reposition gear box cover **B** and tighten screws **C** evenly.



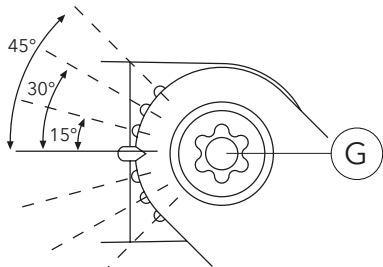
**Torque**

Screw	Torque
M4	max. 2,0 Nm (17.7 in-lb)
M5	max. 4,0 Nm (35.4 in-lb)
M10	max. 23 Nm (203.6 in-lb)

**Cable glands**

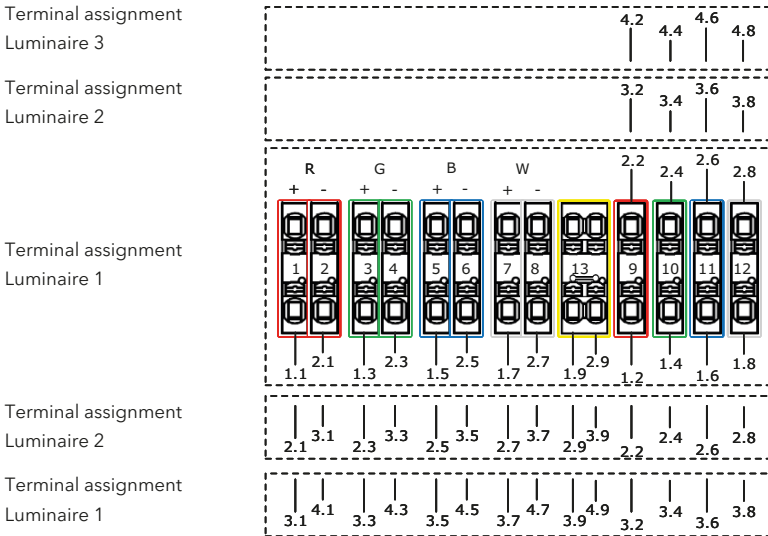
M16	max. 1,5 Nm (13.3 in-lb)
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9) Loosen the two screws **G** slightly. Aim luminaire (see illustration Swivel range:  $-45^\circ + 90^\circ$ ), tighten screws **G** firmly (max. 23 Nm (203.6 in-lb)).



**FLC210-CC / FLC210-CC PP**

U < 60 V

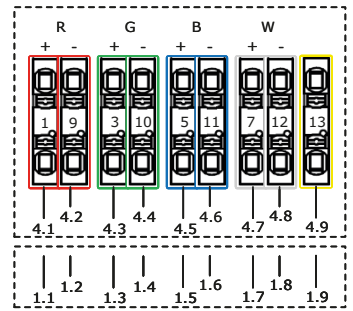


Operation of the luminaire only with SELV control gear

Terminal assignment luminaire 4 / last luminaire in the row

Single luminaire connected directly to the supply unit

R = red  
G = green  
B = blue  
W = white

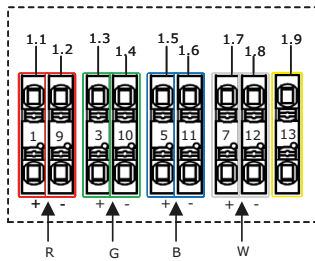


**Description: 1.1**

Terminal assignment supply unit

**139-6979**

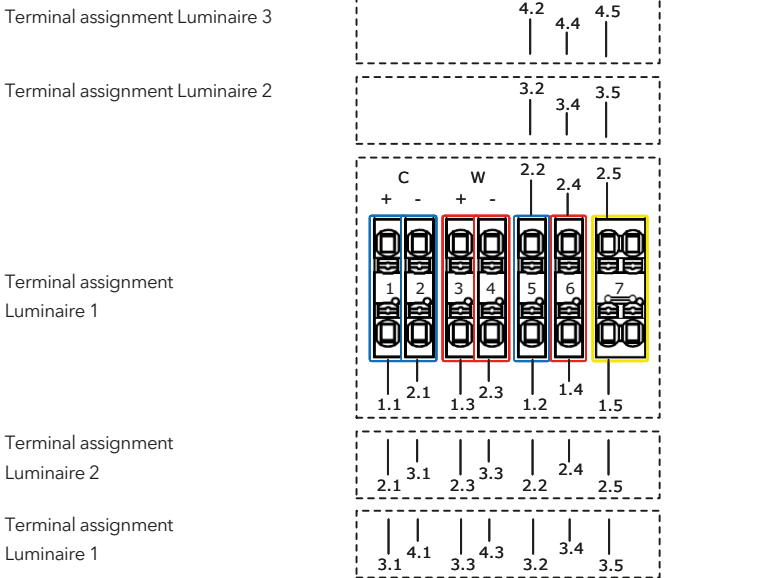
Outgoing  
max. 16 AWG



The supply unit 139-6979 is designed for the operation of 1 - 4 luminaires in a row and a distance from the supply unit to the last luminaire of max. 80 ft. FLC210-CC: max. 480mA, FLC210-CC PP: max. 200mA

**FLC210-TW / FLC210-TW PP**

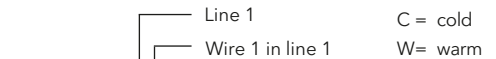
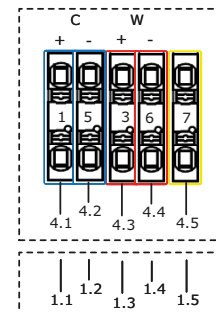
U < 60 V



Operation of the luminaire only with SELV control gear

Terminal assignment luminaire 4 / last luminaire in the row

Single luminaire connected directly to the supply unit

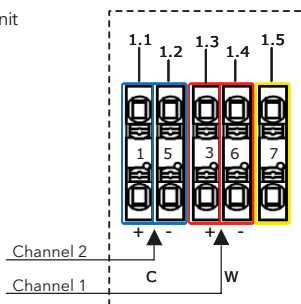


**Description: 1.1**

Terminal assignment supply unit

**139-6978**

Outgoing  
max. 16 AWG



The supply unit 139-6978 is designed for the operation of 1 - 4 luminaires in a row and a distance from the supply unit to the last luminaire of max. 80 ft. FLC210-TW: max. 1300mA ; FLC210-TW PP: max. 500mA

**Wiring Diagrams**

**FLC210-CC/FLC210-TW**

**006-1698**

Technical specifications are subject to change.  
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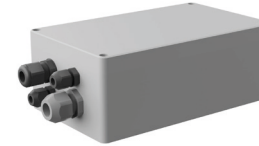
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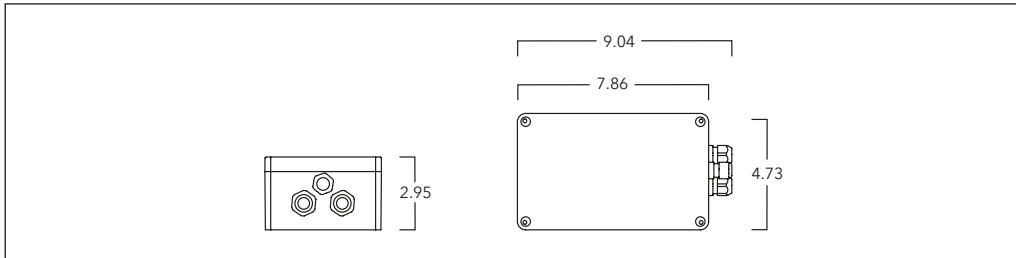


## WE-EF LIGHTING

Installation and  
Maintenance Instructions for  
Separate Driver Box  
**GB200**

**139-6978**

IP66/67



Class I, ta = 25 °C

Weight ..... 2.6 lb

Input  
Box M20: 0.236 - 0.512 in

Output (luminaire connection)  
Box M16: 0.177 - 0.394 in

**139-6978**  
For connection of, 8 x FLC201-TW, max. 50 W, 650 mA constant current, 1.5 - 55 V SELV, max. 80 ft to the luminaires with a total of 18 AWG cable cross-section.

**Tools required**  
- Cross Screwdriver

**Installation Procedure**

- 1) Open the driver box by loosening the 4 fastening screws.
- 2) Fasten the driver box to the mounting surface with suitable fastening material.

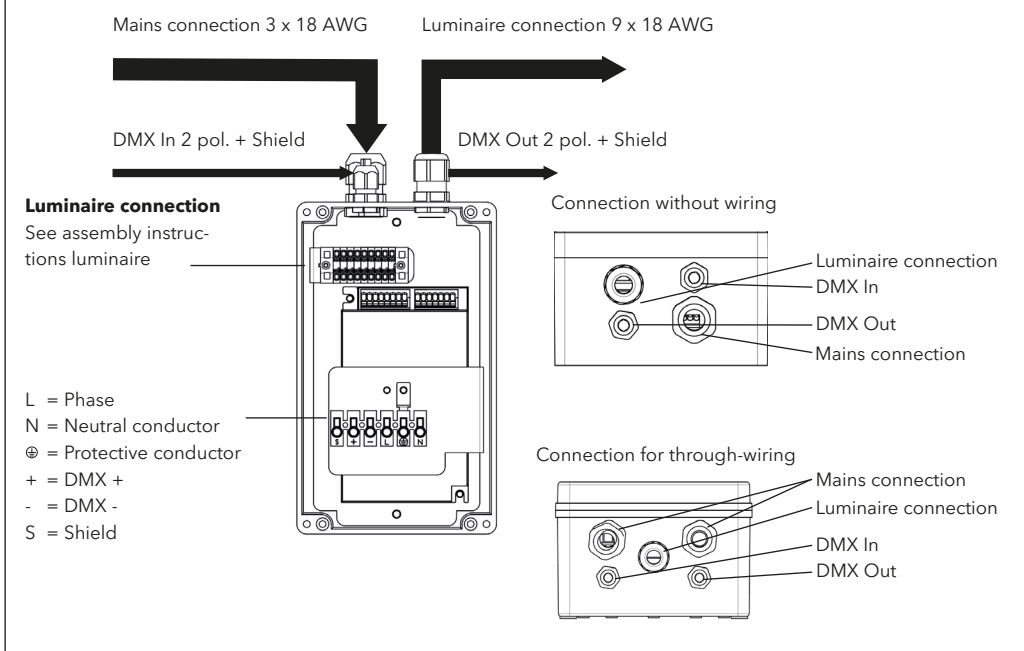
**ATTENTION:** Ensure not to damage any electric cable, water pipe or other devices while drilling holes.

3) Switch off the mains electrical supply. ⚡

4) Connect cable via main cable gland and connect to the appropriately marked terminals. For through-wiring version, an additional screw connection can be used. To do this, remove the sealing plug in the additional screw connection.

5) For connecting the luminaires, please note the wiring instructions that are included with the luminaires.

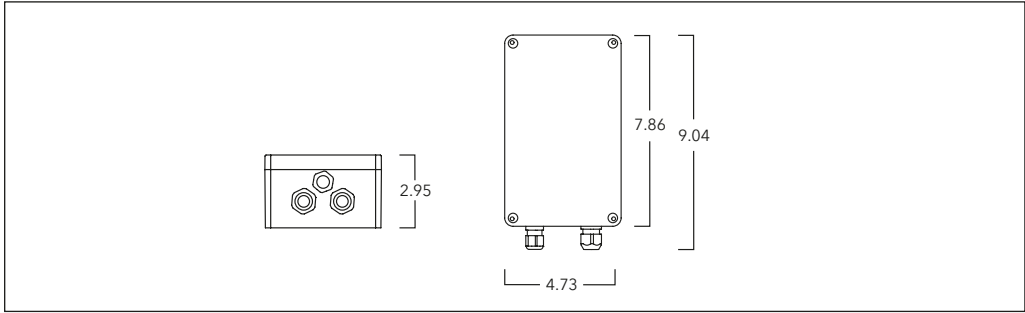
6) Close the driver box and tighten the fastening screws!





**139-6979**

IP66/67



Class I,  $t_a = 25\text{ }^\circ\text{C}$   
 Weight ..... 2.6 lb

**139-6978**  
 For connecting 4 x FLC210-CC, max. 50 W, 480 mA in Color Boost constant current, 2 - 55 V SELV, max. 80 ft to the lights with a total of 18 AWG cable cross-section, or 3 x FLC210-CC [PP], max. 50 W, 200 mA in Color Boost constant current, 2 - 55 V SELV, max. 80 ft to the luminaires with a total of 18 AWG cable cross-section.

M20: 0.236 - 0.512 in

M16: 0.177 - 0.394 in

**Tools required**  
 - Cross Screwdriver

**Installation Procedure**

- 1) Open the driver box by loosening the 4 fastening screws.
- 2) Fasten the driver box to the mounting surface with suitable fastening material.

**ATTENTION:** Ensure not to damage any electric cable, water pipe or other devices while drilling holes.

3) Switch off the mains electrical supply. ⚡

- 4) Connect cable via main cable gland and connect to the appropriately marked terminals.  
 For through-wiring version, an additional screw connection can be used. To do this, remove the sealing plug in the additional screw connection.
  - 6) For connecting the luminaires, please note the wiring instructions that are enclosed with the luminaires.
  - 7) Close the driver box and tighten the fastening screws!
- 5) A separate Input and Output is provided. When looping through the control, remove the sealing plug from the screw connection.

