

# Ultra slim LED Light

## UNDERWATER LIGHT OPERATING MANUAL

Model : EL-F10-CW/WW/RGB EL-F20-CW/WW/RGB  
EL-F30-CW/WW/RGB EL-F42-CW/WW/RGB

Keep this manual for future reference



### ▲ SAFETY WARNINGS

- Only suitably qualified installers is allowed to carry out the installation of this product.
- Avoid direct contact with electrical power.
- Respect all regulations in effect for preventing accidents.
- All units are required to be disconnected from the main electricity before any operation of maintenance.
- Never handle with wet hands and feet.
- This unit is design for use only when fully submerged in water, connecting with a safety transformer.
- Never operate this Underwater Light for more than 1 minute unless it is totally submerged in water.
- Be sure power is off before installing or removing LED plate. Allow LED plate to cool before replacing.
- This product should be installed according to your local electrical installation ordinances and regulations.
- Maximum Depth for Light installation at 1.2 meter.
- Maximum Water Temperature Range for light operation 0 - 25°C
- For type Z attachments

The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire shall be destroyed.

For non replacable lightsources: "The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced".

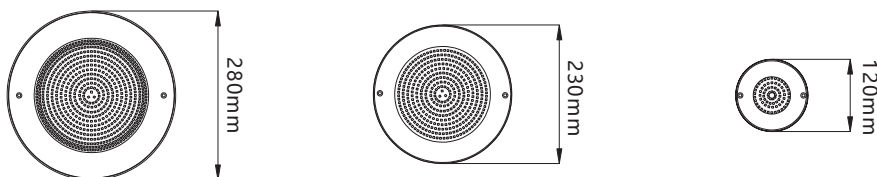
### SPECIFICATION

A) Electrical Specification : DC12V(RGB) AC/DC12V(CW/WW) 50/60Hz Watts: 8/18/25/40W  $\varphi$  cos: 0.8

B) Colour change options(For RGB version only.)

1	White	2	Blue
3	Green	4	cyan
5	Purple	6	Yellow
7	Three-color change: Red+Green+Blue		
8	Seven-color change: White、Red、Yellow、Blue、Green、Cnyan、Purple		
9	Seven-color gradual change (Fast): White、Red、Yellow、Blue、Green、Cnyan、Purple		
10	Seven-color gradual change (Slow): White、Red、Yellow、Blue、Green、Cnyan、Purple		

## Parameter



## INSTALLATION NOTES

- 1) You should follow the procedures closely when installing the light.
- 2) It is recommended to install a light every 20m<sup>2</sup>, the approximate exposure area of each unit.
- 3) The lights should be installed in the direction that they will not shine directly into the house.
- 4) For training or competition pools, the lights must be installed on the sides in order to prevent swimmers from seeing any glare.
- 5) Nothing should be placed on the poolside directly above the lights for ease of future maintenance.
- 6) If the wires are connected inside the lights, you must seal the connections with leak-proof tapes or products with the same function.
- 7) The cables connecting the lights and the transformers must be at least 6mm<sup>2</sup> and the distance between them must not exceed 30m (Figure 2); otherwise the lights will not function properly.
- 8) Terminal blocks must meet the IEC60988-2-1 standard having the rated connecting capacity of 4.0mm<sup>2</sup> use of screw-type terminal at least 25A rated current, mounted on junction boxes inside. See Figure2-1.
- 9) Before installation, it is necessary to prepare the pre-embedded accessories. Additionally, when installing the screws into the wall, the thickness of the waterproof layer should be considered. This wall-mounted installation has resulted in water leakage from the pool, which is not covered by the warranty.

Figure 2

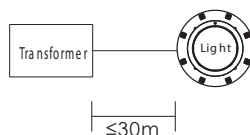
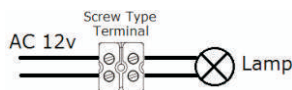


Figure 2-1



## INSATALLATION OF THE UNDERWATER LIGHT

### A) Preparing to Install

- 1) The circuit system must comply with local laws and regulations and must be carried out by suitably qualified installers.
- 2) Make sure the voltage is 12V and the terminal box is at least 120cm from the poolside (Figure 3).
- 3) Upon installation, top of the light must be at least 45cm from water surface (Figure 3).

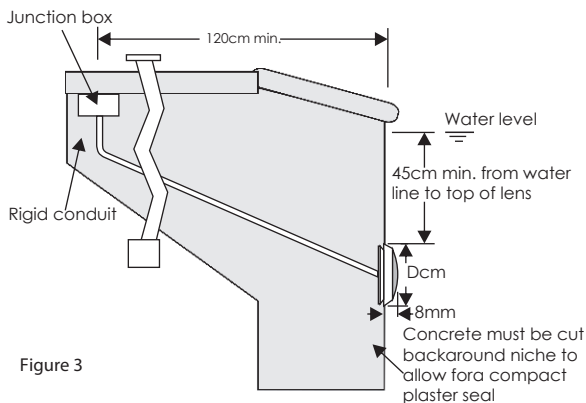
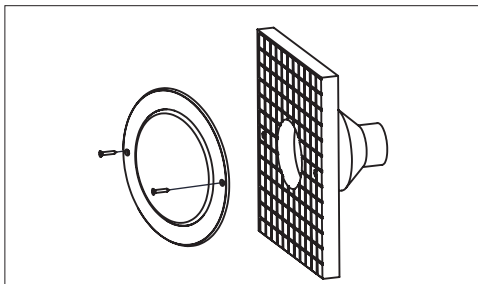
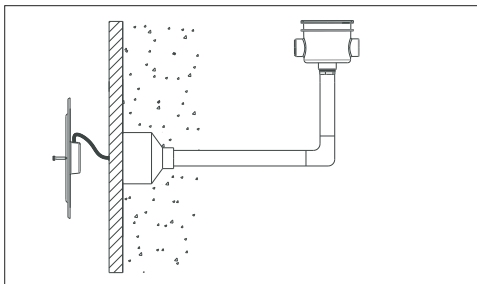


Figure 3

## B) Pool Installation



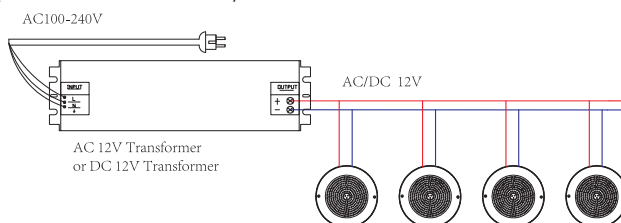
3D Illustration



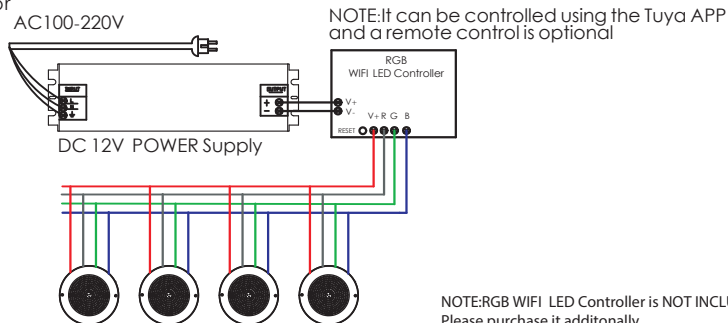
2D Illustration

## Wire Diagram

For single color (Warm white/cold white)



For RGB color



## MAINTENANCE OF THE LIGHTS

- 1) Do not leave the lights "on" above water for longer than 1 minute.
- 2) Before switching on the lights, check whether the lights are fully submerged underwater and the circuit boxes are running properly.
- 3) This unit does not need any kind of maintenance. If it is not working properly, please contact EMAUX authorized dealer where you purchase the unit from.
- 4) Warranty will be voided if the Emaux Underwater Light was dismantled by unauthorized personnel.

Item	Part No.	Description	Qty
1	51401635	Screw M4X35	2
2	12406351	Face Plate (EL-F10)	1
	12406352	Face Plate (EL-F20/F30)	1
	12406353	Face Plate (EL-F42)	1
3	51401639	Wall screw M6X30	2
4	40508151	Ultra Slim 63 LED panel 8W, Cool white	1
	40508152	Ultra Slim 63 LED panel 8W, Warm white	1
	40508153	Ultra Slim 63 LED panel 8W, RGB	1
	40508154	Ultra Slim 252 LED panel 20W, Cool white	1
	40508155	Ultra Slim 252 LED panel 20W, Warm white	1
	40508156	Ultra Slim 252 LED panel 20W, RGB	1
	40508157	Ultra Slim 324 LED panel 30W, Cool white	1
	40508158	Ultra Slim 324 LED panel 30W, Warm white	1
	40508159	Ultra Slim 324 LED panel 30W, RGB	1
	40508160	Ultra Slim 522 LED panel 40W, Cool white	1
	40508161	Ultra Slim 522 LED panel 40W, Warm white	1
	40508162	Ultra Slim 522 LED panel 40W, RGB	1

