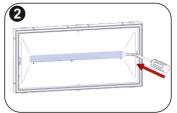
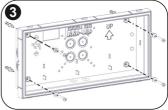
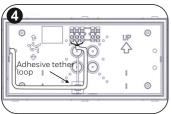


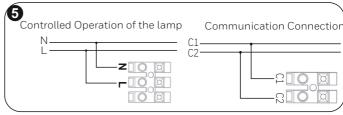
Installation:



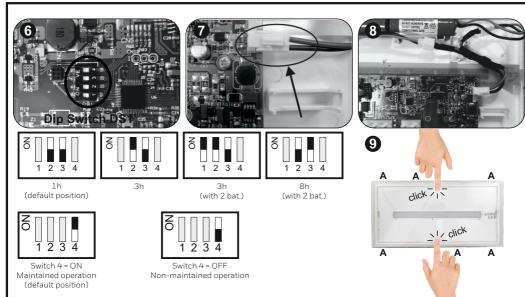








- **Step 1:** Place a flat blade screwdriver and pull up gently the diffusor's clips from both sides to remove the diffusor.
- **Step 2:** Place a flat blade screwdriver and pull up gently the reflector.
- **Step 3:** Install the plastic base with the included mounting screws and plugs. If the hole that exists is not useful, drill another hole on one of the designated positions in order to pass the cables and install the included gasket (verify that are not deformed).
- Step 4: Install the included rubber gasket (verify that is not deformed). Make a hole in the center of the rubber gasket by using a small screwdriver. Pass the round cable through the rubber gasket. Install the included tie-wrap to the included adhesive tether loop and fasten securely the power cable in order to anchor it. Install the power cable as shown in the picture. Always use in any case round mains cable, with a diameter of 5-10mm (H05RN-F type 2x1mm2) or any other type, at least equal to it's mechanical and electrical properties). ATTENTION!! The cable must not be deformed in any way (This requirement is important to ensure the IP rating).
- $\label{eq:step5:connect} \textbf{Step 5:} Connect the mains cable to the respective terminal block: L for live wire, N for neutral. Power supply cables cross section should be 0.8 3 mm². The C1 and C2 terminals are used for elBus communication (optional), DALI communication (optional) or voltage free contact (optional).$



Step 6: The control of maintained or non maintained operation of the luminary is achieved through Switch 4 of DS1. For maintained operation, switch number 4 must be in ON position. For non-maintained operation, switch number 4 must be in OFF position. The user can select one of the 3 available minimum autonomy durations: 1 hour, 3 hours and 8 hours. The selection must be done while the luminaire is disconnected from AC and battery supplies. The selection is achieved through Switches 1 - 3 of Ds1. One additional label is included in the package for 3 hours duration (180). The installer must cover the default 1 hour (60) printing. Please take notice of the orientation of the label.

 $\textbf{Step 7:} \ Place the battery's connector to the corresponding connector on the PCB.$

Step 8: For accomplishing 3h (for more illumination) and 8h autonomous light, an extra battery and adaptor is required (Part No. 290BAT.13). Place the battery on the diffusor, connect the two batteries to the adaptor and then the adaptor's connector to the corresponding connector on the PCB. Two additional label is included in the package, one for 3 hours duration (180) and one for 8 hours duration (480). The installer must cover the default 1 hour (60) printing. Please take notice of the orientation of the label.

Note! 8hour duration can be achieved only with 2 batteries, while 3hour duration can be achieved with 1 battery and if you need more illumination you can connect a second battery and switch the Ds1 as the image above (Step 6).

Step 9: Refit carefully the removed plastic parts. Finally place the diffusor. Attention!! The plastic lathces (A) must be secured (click sound). This requirement is important to ensure the IP65 rating. Power on the luminaire.

Important notice when installing luminaires within the same area!!!

To avoid that luminaires perform their battery test at the same day, connect the battery packs with more than 1.5 minutes inbetween.

Note: In case of battery replacement, this must be replaced with parts of the same type and characteristics. The replacement must be performed by the manufacturer or a competent person.

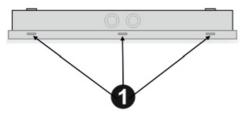
Note: If the supply cable of the luminaire is damaged, it shall exclusively be replaced by a competent person in order to avoid hazard.

Note: In case of mains power disconnection for a period of more that two months, the battery must be disconnected.

1

The light source of this luminaire is not user replaceable. When the light source reaches its end of life the α whole luminaire shall be replaced.

Pictogram Installation





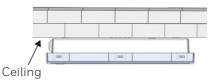
2

- **Step 1:** Place a flat blade screwdriver and pull up gently the diffusor's clips from both sides to remove the diffusor.
- **Step 2:** Install the pictogram you need in the diffusor and refit it to the luminary. (In case you need to change the pictogram follow the same procedure.)
- Step 3: Fillin, the letter G on the specification label. $\boxed{X1AE}$ 60

Mounting Methods

Wall installation

Ceiling installation



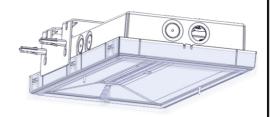
ImperLED luminaries can be surface mounted on walls or ceilings.

Mounting Accessories (Available After Request)



Wall

bottom view



290405.11 ImperLED Suspended Pictogram

290471 ImperLED Wall Bracket

Indic	cator L	_	Description				
GREEN	RED	YELLOW					
	\bigcirc	\circ	Normal				
*	\bigcirc	0	Charging (battery test not possible while charging				
0	\bigcirc	\circ	Mains off, battery not connected or charger fault				
0	\bigcirc	*	Battery test				
	\bigcirc		Battery fault				
0	*	0	Light source test				
		\circ	Light source fault				
			Battery fault and light source fault				
LED Status explanation							
Off			On → Flashing				

Technical description	ImperLED Combi ST LED 230V w/pict 10Y 138h		
Part no.:	138002.10		
Operation Voltage:	220-240V AC, 50-60 Hz		
Maximum Power Consumption:	5.3W / 5.6VA		
Battery (LiFePO ₄):	1h & 3h: 3.2V / 2Ah	3h & 8h: 2 x 3.2V / 2Ah	
Battery Protection:	Overcharge protection / full discharge protection		
Min./Max. Charge Current:	165 / 250mA		
Charge Voltage Range:	3 - 4.5V		
Charging Time:	1h & 3h: 12hours	3h & 8h: 24hours	
Emergency Mode Duration:	1h / 3h / 8h manually selected (default 1h)		
Lumen output, normal:	360lm		
Lumen output, emergency:	1h: 350lm / 3h: 210lm or 340lm / 8: 190lm		
Produced in accordance with:	EN 60598-1, EN 60598-2-22, EN 55015 EN 61547, EN 61000-3-2, EN 61000-3-3		
Ambient Temperature Range:	5 to 40 °C		
Relative Humidity:	Up to 95%		
Degress of cover protection:	IP65		
Technical lifetime (light source):	> 100000 hours		
Weight:	820 gr		
Expected Battery Lifetime:	10 years		
Controlgear classification in accorda	nce with IEC 62034: with autor	matic test function	

The ImperLED is a self-contained luminaire with selftest function. It can be configured as maintained or non-maintained.

Selftest functions

Every 15 days the luminaire will perform an emergency operation test. This will light the light source for approximately 3 seconds. The red indicator LED will flash during this test sequence.

Every 6 months the luminaire will perform a battery capacity test. The test lasts for the selected autonomy. The light source will be lit and the yellow indicator LED will flash during this test sequence.

Note: When using DALI or Wireless communication, the frequencies and schedules for tests will instead be determined by the connected PC software.

Manual test functions

Manual tests can only be performed if both mains and battery are connected.

By activating the magnetic contact briefly (less than 5 seconds) an emergency operation test is performed. The light source will be lit for approximately 3 seconds, the red indicator LED will flash during this test sequence. The test will start only if the battery has enough charge.

By activating the magnetic contact for a time space between 5 and 10 seconds, a battery capacity test is performed. This test will last for the selected autonomy and can only be performed when the battery is fully charged (steady green indicator LED). The exit sign will be lit and the yellow indicator LED will flash during this test sequence.

Resetting errors

Activate the magnetic contact for a time space between 10 and 15 seconds to delete all indicated errors. Then the luminaire enters regular operation mode.

Test and Faults Reset operations with the 290470 card (not included and available after request).

In order to activate an emergency operation test, you must place the card in front of the TEST indicator and remove it immediately.

In order to proceed to capacity test, you must place the card in front of TEST and hold it for 5 to 10 seconds. To reset errors you must place the card in front of TEST by holding it for 10 to 15 seconds and removing it.





At the end of their useful life the packaging, product & batteries should be disposed of via a suitable recycling centre. Do not dispose of with your normal household waste. Do not burn.

