

NOTE!!
After finishing the installation you must power the luminaire for at least 24 hours in order to completely charge the battery. The rated autonomy duration can be achieved after that time.

Magnetic Test



Test and Faults Reset operations with the A-1900 card (not included and available after request). For lights test, you must place the card in front of the TEST indicator and remove it immediately. For Autonomy 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.

Battery Replacement

- It can be done only by a competent person and after the mains interruption.**
- Detach the front cover by applying pressure using a flat blade screw driver. Next, unfasten the four retaining screws without removing them and remove the diffuser.
 - Disconnect the connector and remove the old battery.
 - Connect the new battery with the same type (step 4 of the installation instructions) and place it in the position of the old one.
 - Replace the removed parts and power the device.

NOTE: LED= Light Emitting Diode
LABELING EXPLANATION:
X: Self contained
0: Non maintained (*)
A: Including test device
E: With non-replaceable lamp(s)
F: Automatic test gear complying with IEC 61347-2-7 denoted EL-T
90: 1.5 hour duration
180: 3 hours duration

(*)Non Maintained operation: The luminaire lights its illumination source, only in power supply's failure.
Maintained operation: The luminaire lights its illumination source, when it is powered by the mains power supply or not.

Note!! If a module will be used (except the fault relay module), then the installer should fill in, on the specification label, the letters **B** and **C**.

X	0	A	E	F		1	8	0

↑ ↑
B C

ATTENTION!!!

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



CAUTION : Do not view directly with bare eyes.

Technical Characteristics

	GR-490	GR-491	GR-492	GR-493
OPERATION VOLTAGE	220-240V AC / 50-60Hz			
MAXIMUM POWER CONSUMPTION	3.9W / 4.4VA			
BATTERY (Ni-MH)	4.8V/1.2 Ah			
BATTERY PROTECTION	Deep discharge and overcharge protection			
INDICATIONS - CONTROLS	LED Charge , Lamp Fault LED, Battery Fault LED / Magnetic Test Contact			
CHARGE TIME	24 hours			
MINIMUM DURATION	1,5 hour		3 hours	
LIGHT SOURCE	1 white power LED			
EMERGENCY ILLUMINATION	280lm		140lm	
DEGREES OF COVER PROTECTION	IP42			
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3			
OPERATION TEMPERATURE RANGE	5 to 40 °C			
RELATIVE HUMIDITY	Up to 95%			
CONSTRUCTION MATERIAL	ABS/PC, PC			
EXTERNAL DIMENSION (L x W x H)	158 x 158 x 60.4mm (without decorative bezel) - 195 x 195 x 60.4 (with decorative bezel)			
WEIGHT	567gr.			
GUARANTEE	3 years (1 year for the battery)			

LED Characteristics

	GR-490	GR-491	GR-492	GR-493
MANUFACTURER	Olympia Electronics A.E.			
MODEL NUMBER	0405183			
VOLTAGE RANGE	3-3.1V DC		2.8-2,9V DC	
NOMINAL POWER	2W		1W	
CONNECTIONS	Fixed connection between main pcb and led module			
TEMPERATURE (tc)	65 °C max. across the board			

Warranty

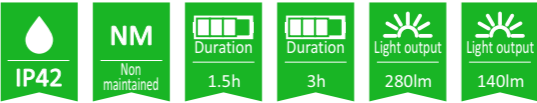
Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid.
Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defection. Olympia Electronics reserves the right to charge or not the buyer the


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GR-490, GR-491, GR-492 & GR-493

**SELF TESTING NON-MAINTAINED EMERGENCY
CEILING MOUNTED LUMINAIRES WITH LEN
FOR ESCAPE ROUTE OR ANTIPANIC AREA**



Thank you for your trust in our products
Olympia Electronics - European manufacturer

Package Contents

1	Luminaire
1	Decorative
1	Mounting accessories
1	Manual

General

GENERAL

These devices are used indoors (ta 40°C) in places where emergency luminaires are needed. The luminaires GR-490 and GR-492 are suitable for corridors lighting and the GR-491 and GR-493 for open area lighting. Each device must be permanently connected to mains power supply. In normal operation the battery is charging. In case of a mains power supply failure, the device enters emergency mode and the illumination LED turns on. When the mains power supply is restored the device turns to normal operation.

INSTALLATION

To install the luminaire follow the installation instructions on page 3.

Battery Charging

The battery charging is completely controlled by microprocessor and is protected from complete discharge and overcharge.

Battery Cut-off

The luminaire enters in this mode when the mains power supply fails and battery has lost its energy. During this mode the luminaire enters the idle state and battery consumption is negligible, in order to be protected from deep discharge.

Manual Test

This test can be done by using the A-1900 card as described on page 6. The light source and the emergency circuit of the device are tested. The manual test can be conducted only if the mains power supply and the battery are connected. During this test period the LAMP TEST LED will blink.

Manual Autonomy Test

A duration test can be conducted by holding the A-1900 card steadily for 5 to 10 seconds. In order to be performed, the mains power supply and the battery should be connected. The luminaire enters emergency mode, the charge LED is turned OFF and the Battery Fault led starts to blink. The test is performed until the battery is fully discharged. If at the end of the test the autonomy is low then the Battery Fault LED will be ON. If the result of the test is good then the luminaire enters charging mode and the Charge led starts to blink until the batteries are fully charged.

Automatic Operational Test

This test includes all the operations that are provided in manual test and is conducted automatically every 15 days. In order to be performed, the mains power supply and the battery should be connected.

Automatic Autonomy Test

The Automatic Autonomy Test tests the device's back up operation and emergency duration. This test is conducted automatically every 6 months. In order to be performed, the mains power supply should be connected and the battery must be fully charged. If the battery is not fully charged, the test

is postponed until the battery is completely charged. If during this test, the autonomy is less than nominal then the battery fault LED will permanently be on and the battery must be replaced.

Back Up Operation

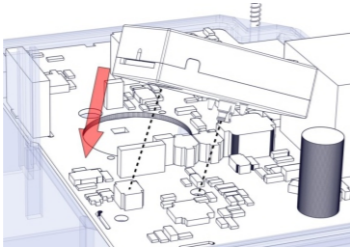
The autonomy duration of battery during emergency mode must be at least as the one stated in the list of the technical characteristics. During emergency mode, a light source test is also performed.

Resetting Errors

Hold the A-1900 card in TEST position for 10 to 15 seconds in order to delete all LED indicated errors. Then the device enters regular operation mode.

Connection to module (After request)

This luminaire can be connected to any of the following modules: Remote module, address module, wireless module and fault relay module. If you connect it to a module that supports inhibit or rest mode, you should know that these commands can be cancelled only during normal mode (ie. not in emergency). Also, refer to the user's manual of each module for additional information.



Lamp Fault

On: Faulty LED.

Off: LED OK.

Blink: Operational Test.

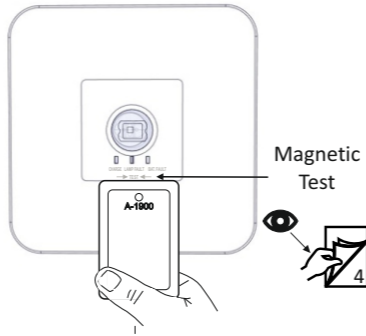
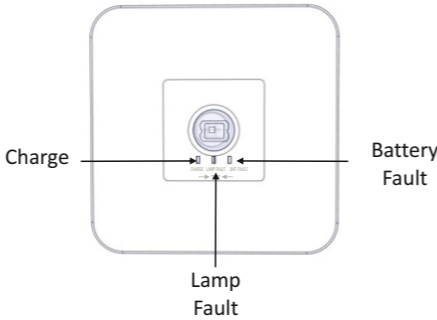
Battery Fault

Off: Battery OK.

ON (With Charge LED ON): Autonomy or low battery problem (the battery must be replaced).

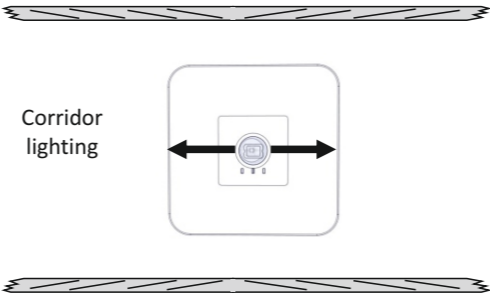
Blink (With Charge LED Off): Autonomy test is performed.

Indicators



Lens

GR-490 & GR-492



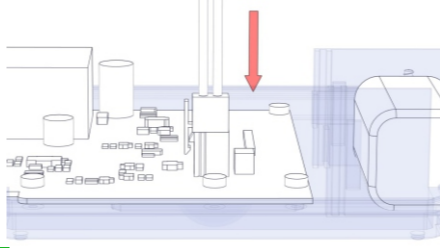
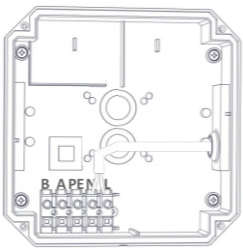
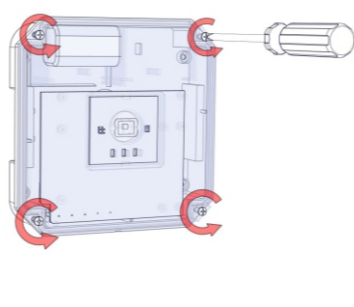
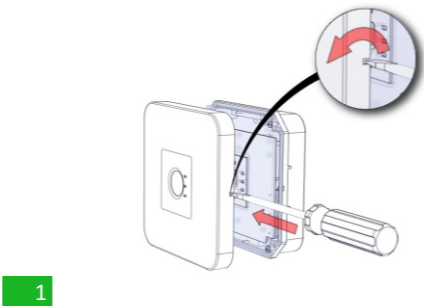
Corridor lighting

GR-491 & GR-493

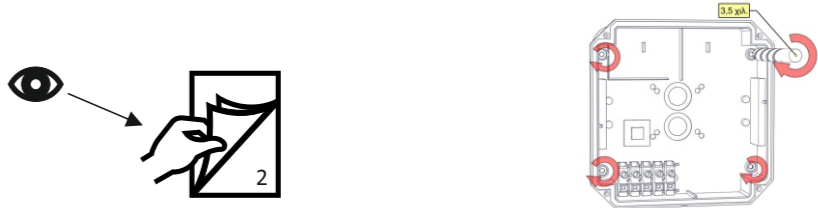
Open area lighting



Installation Instructions

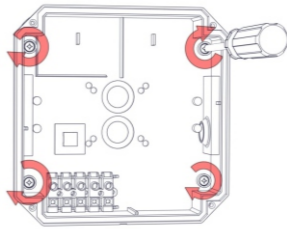


Surface Mounting



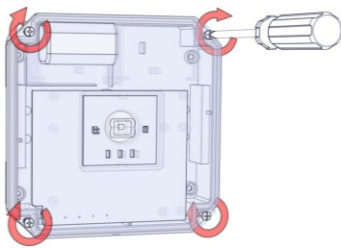
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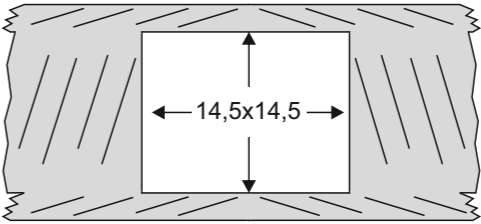
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Suspended Ceiling



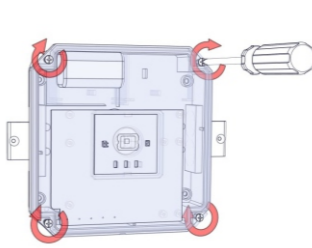
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