



INSTALLATION AND MAINTENANCE MANUAL FOR
LIGHT FITTING

INV360LED

IP67



Carefully read the instructions before
mounting the light fitting.

TABLE OF CONTENTS

1.	GENERAL INFORMATION.....	3
2.	TECHNICAL INFORMATION	3
3.	PHOTOMETRICAL DATA.....	4
4.	CONSTRUCTION DESCRIPTION	4
5.	PRELIMINARIES.....	4
6.	LIGHT FITTING MOUNTIGN	5
7.	ELECTRICAL CONNECTION	5
8.	CONDITIONS OF SAFETY USE.....	6
9.	LIGHT FITTING MAINTANANCE AND SERVICING.....	6
10.	PARTS EXCHANGE.....	7
11.	REPAIRING	7
12.	LAMPS EXCHANGE	7
13.	TRANSPORT AND CONDITIONS OF STORAGE.....	7
14.	DISPOSAL OF WASTE EQUIPMENT.....	7
15.	WARRANTY	7

1. GENERAL INFORMATION

Vandalproof and waterproof light fitting with LED module characterized with high impact resistant factor (IK10+). Special screw prevents unauthorized access.

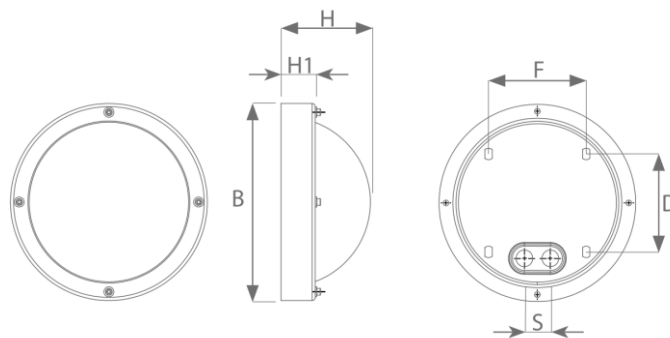
DOSTĘPNE KONFIGURACJE | AVAILABLE OPTIONS

I	N	V	3	6	0	L	E	D	-	0	2	5	0	-	2	-	3	4	E	-	3	0	-	2	0	P	C	I	-	NIRO	-	PC	-	
grupa											L	R			1																			HM
group											typ modułu LED / LED module type	ilość /quantity			prąd sterowania driving current				zasilanie power supply			okablowanie wiring					wpusty/kablowe cable inlets		material obudowy housing material		material klosza diffuser material		zewnętrzna przesełona external cover	

LED module risk group RG=1

2. TECHNICAL INFORMATION

Type	Power	Electrical unit	IP	Protection class	Power factor	Ambient temp.
INV360LED-0250-R2-1	8,7 W	230V 0,50,60Hz	67	I	≥0,95	-30 do +30 °C
INV360LED-0250-L2-1	11,3 W					
INV360LED-0250-L2-3	14,2 W					



Type	H	H1	B	S	D	F
INV360LED	105	46	247	32	120	120

3. PHOTOMETRICAL DATA

Type	Luminous flux	Efficiency	Colour temperature	CRI	Lifetime
INV360LED-0250-R2-1	558 lm	64 lm/W	4000K	>80	>70000 h
INV360LED-0250-L2-1	744 lm	66 lm/W			
INV360LED-0250-L2-3	1026 lm	72 lm/W			

Lifetime of a LED modules: L₈₀B₁₀

4. CONSTRUCTION DESCRIPTION

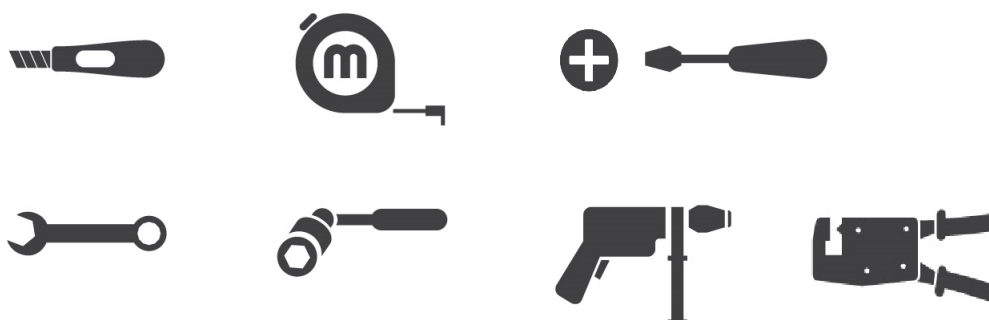
Housing is made of pressed powder painted stainless steel. Diffuser is made of PC opal. Mounting tray is made of powder painted aluminum sheet.

5. PRELIMINARIES

CONDITIONS OF SAFETY RULES

- Carefully read all the information included in the manual before mounting the light fitting
- General safety must be applied.
- Failure to comply with rules of the installation and use can lead to personal injury or property losses. Company ATM Lighting sp. z o.o. takes no responsibility in such cases.
- Failure to comply with rules included in manual results with void of the manufacturer warranty.

NECESSARY TOOLS



6. LIGHT FITTING MOUNTING

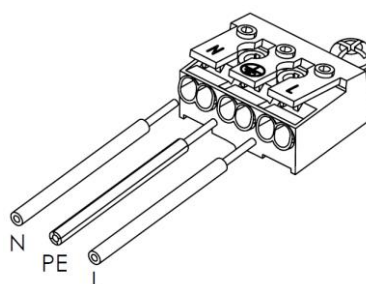
Light fitting is designed for direct installation on ceiling or wall. Spacing of mounting holes are shown in point 2.

7. ELECTRICAL CONNECTION

To connect power supply:

- enter the power cable to the housing through the cable entry,
- carefully unisolate the cables cores (8-10mm), and put it into the connector according to marking inside the light fitting,
- check the effectiveness of grounding.

Power connection:



Remarks:

- If light fitting is equipped with rubbed cable entries to enter power cable to housing carefully make a hole in the grommet. Diameter of the hole must ensure tight fit to membrane of the grommet

8. CONDITIONS OF SAFETY USE

- Every light fitting has to have rating plates with rating data on it. Each light fitting must have this „Installation and maintenance manual” , which must be kept by user until the end of exploitation.
- Light fittings are designed for fixed installations only.
- Using light fitting outside the designated operating temperature range will decrease a lifetime of light fitting and/or damage it. It will also cause a loss of warranty.
- Each light fitting must have a warning sign: „do not open under voltage” on it.
- Admission cables must have 3-wires and diameter 8-13mm.
- Use power wires with cross section 0,5-1,8mm².
- Maximum cross current I=16A.



- Do not stare into working light source.



- Risk of electrical shock.

9. LIGHT FITTING MAINTENANCE AND SERVICING

REMARK: during the servicing and maintenance touching of LED are prohibited, because it will decrease the lifetime of light fitting and cause the loss of manufacturer's warranty.

INSPECTION: at least once a month. Inspection is made without opening the light fitting. User must check admission cables condition (insulation damage, cracks, burns etc.). Cables must not have any acute bends. Outside parts of the light fitting must be checked. No cracks or corrosion signs may occur. Bolts used to mount light fitting should be properly tightened, washers mustn't be cracked. Cleanliness of outer surfaces and light fittings surroundings must be checked. Light fittings may not be soiled by paint or grease. Do not allow for dust (dirt) deposition on the light fitting. The readability of rating and warning plates must be checked. Abnormalities found must be fixed.

SERVICE AND MAINTENANCE: at least once a year. Service and maintenance must be made with power supply turned off. User must make inspection steps first. After opening the metal parts painting, condition of inner wiring and its mounting, insulating materials, cable glands gaskets, terminals. Abnormalities found must be fixed. Rating and warning plates must be cleaned. Surfaces of insulating materials and covers must be clean.

VERIFICATION OF TECHNICAL CONDITION: at least once for 2 years. Power supply must be switched off. Light fitting must be uninstalled. Besides all the examination from inspection, service and maintenance paragraphs electrical examination from the inspection, service and maintenance paragraphs electrical examination must be also made: light fitting current consumption, insulation examination, protective earthing condition. Special attention must be paid to insulating parts condition. No crack or burns may occur.

CLEANING: do not allow for dust (dirt) deposition on the light fitting. Cleaning must be proceeded without use of chemical. Cleaning must be proceeded with use of compressed air and soft cleaning cloth or soft brush. If necessary use water and/or neutral detergent, however without any chemicals, which can damage any part of the light fitting.

10. PARTS EXCHANGE

All of parts considered as a spare parts must be ordered at manufacturer of light fitting.

11. REPAIRING

All repairs (excluding lamps exchange) may be made only by manufacturer or authorized repair workshops.

12. LAMPS EXCHANGE

Lamps exchange may be made only by specially trained personnel using the original components provided by manufacturer.

13. TRANSPORT AND CONDITIONS OF STORAGE

During transportation light fittings shouldn't be exposed to precipitation or mechanical shock.

Light fittings may be storage only in sheltered warehouses, within +5°C to +25°C temperature range, and relative humidity lower than 75%. No corrosion causing vapors or gases should be present.

14. DISPOSAL OF WASTE EQUIPMENT

User must obey relevant rules and regulations about disposal of wasted equipment valid in their country.

15. WARRANTY

- It is forbidden to use damaged or malfunctioned light fitting.
- It is required to disconnect power supply from the light fitting before any maintenance work.
- All specific information can be found in document „General terms and conditions warranty ATM Lighting sp. z o.o.” available at the website www.atmlighting.pl/en/

ADDRESS:

ATM Lighting sp. z o.o.

ul. Budowlanych 31 80-298 Gdańsk

tel: +48 58 347 51 07 fax: +48 58 347 51 08

office[at]atmlighting.pl