

INS350LED





Polish National Institute of Health Certificate:

BK/K/0013/01/2019

| | | | | | |
|-------|-------|-------------------|---|--------------------------|------------------------|
| -40°C | +60°C | C5 | CHEMICALLY RESISTANT NH ₃ | NIRO | ENCAPSULATED LED |
| IP66 | IP68 | EASY CLEANING | 24 VDC | OPTIONAL CENTRAL BATTERY | CONTROL SYSTEM DALI |

EXEMPLARY APPLICATIONS



INDUSTRIAL BUILDINGS



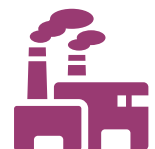
WAREHOUSES



PRODUCTION LINES



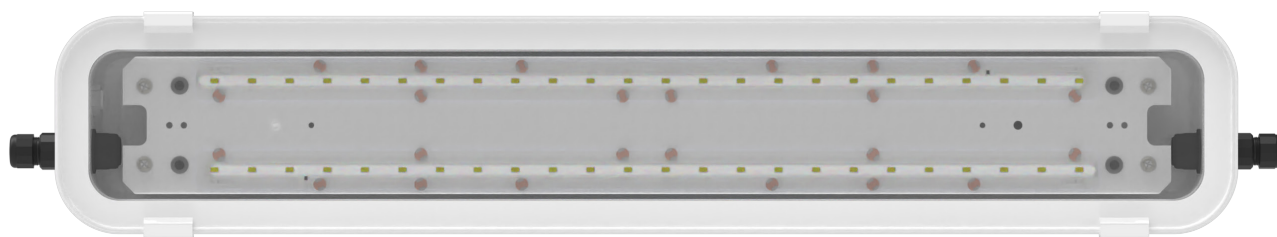
COMPOSTING PLANTS










WASTE INCINERATORS

Waterproof and dustproof industrial luminaire with LED modules that can be encapsulated. The housing is made of powder coated stainless steel. The diffuser is made of polycarbonate, PMMA, glass, safety-glass. The fixture is equipped with plug and socket for fast connection.


Version equipped with power supply with the DALI protocol is available as **DA**. Optional version for operation with a central battery **ZB**. The light fitting can be equipped with encapsulated LED modules and be adapted to work in high corrosion environment **C5**.



MECHANICAL PARAMETERS

| | | |
|---|--------------------|--|
|  | housing | powder coated stainless steel |
|  | diffuser | polycarbonate, PMMA, glass, safety-glass |
|  | ingress protection | IP66, IP68 |
|  | protection class | I, III |
|  | impact resistance | PC: IK10 GL/SGL: IK08 |
|  | mounting | different mountings <i>check: mountings</i> |
|  | accessories | mounting accessories |

WORKING PARAMETERS

| | | |
|---|---------------------|---|
|  | ambient temperature | -40°C up to +60°C <i>check: types comparison</i> |
|  | lifetime | >70.000h L ₈₀ B ₁₀ |

PARAMETRY ELEKTRYCZNE

2,5 mm²

220-240V, 0/50-60Hz

24V, 0Hz

certified LED modules

>0,97

Ø25
clamping range 7-12mmL-N: 4kV
L-PE: 4kV

connection terminals

input voltage

35E

input voltage

11E

source of light

power factor

plug-socket

overvoltage protection

>80

6500K
5000K (24V, 0Hz)
4500K (C5)
4000K

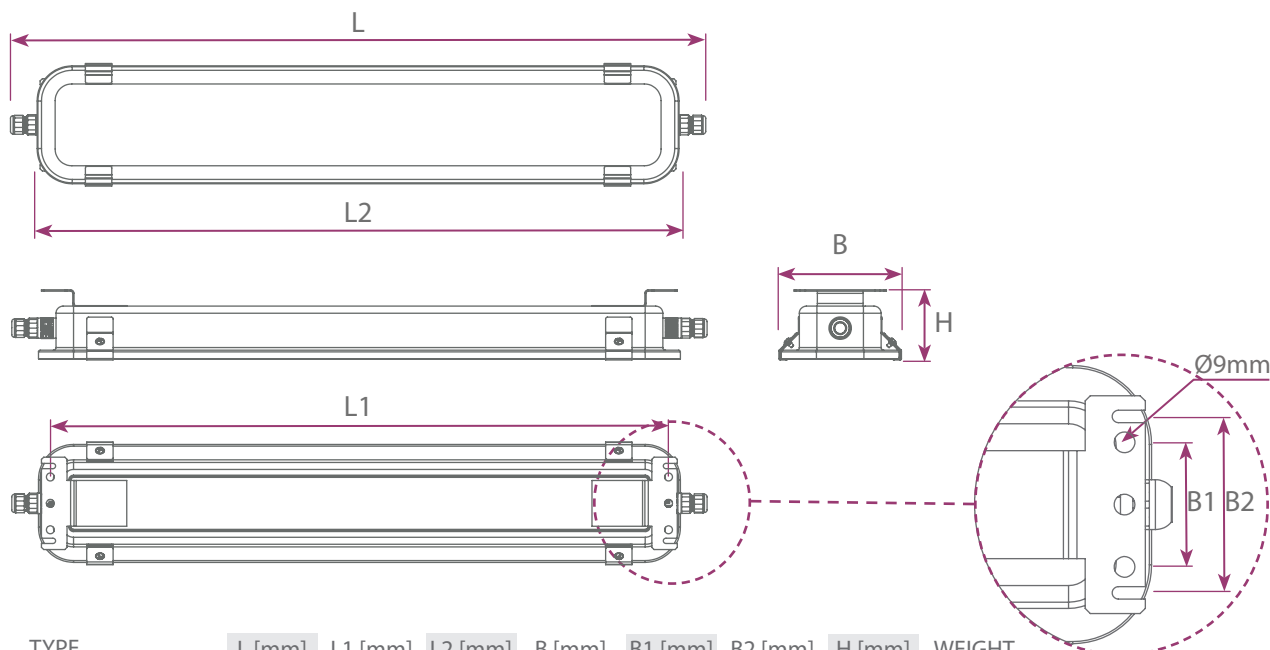
PHOTOMETRICAL PARAMETERS

CRI

light temperature



DIMENSIONS



| TYPE | L [mm] | L1 [mm] | L2 [mm] | B [mm] | B1 [mm] | B2 [mm] | H [mm] | WEIGHT |
|----------------|--------|---------|---------|--------|---------|---------|--------|--------|
| INS350LED-0600 | 790 | 704 | 730 | 139 | 60 | 85 | 80 | 4,7kg |
| INS350LED-1200 | 1400 | 1314 | 1340 | 139 | 60 | 85 | 80 | 7,2kg |

ZESTAWIENIE TYPÓW

STANDARD VERSIONS (OPTICS NB, MB, WB, ASY)

| TYPE | LUMINOUS FLUX [lm] | POWER CONSUMP. [W] | EFFICIENCY [lm/W] | WORK TEMP. [°C] |
|---------------------|--------------------|--------------------|-------------------|-----------------|
| INS350LED-0600-J2-1 | 2650 | 18,2 | 145 | -40 ÷ 60 |
| INS350LED-0600-J2-3 | 3700 | 25,7 | 144 | -40 ÷ 50 |
| INS350LED-1200-J4-1 | 5390 | 34,5 | 156 | -40 ÷ 60 |
| INS350LED-1200-J4-3 | 7500 | 49,1 | 153 | -40 ÷ 50 |
| INS350LED-1200-B4-1 | 9150 | 57,8 | 158 | -40 ÷ 40 |
| INS350LED-0600-D2* | 2690 | 20,0 | 135 | -40 ÷ 60 |
| INS350LED-1200-D4* | 5370 | 39,3 | 137 | -40 ÷ 60 |

* - modules D are available only with III protection class (input voltage 24V, 0Hz)

C5 VERSION (ENCAPSULATED LED MODULES)

| TYPE | LUMINOUS FLUX [lm] | POWER CONSUMP. [W] | EFFICIENCY [lm/W] | WORK TEMP. [°C] |
|---------------------|--------------------|--------------------|-------------------|-----------------|
| INS350LED-0600-J2-1 | 2200 | 18,2 | 121 | -40 ÷ 60 |
| INS350LED-0600-J2-3 | 3100 | 25,7 | 120 | -40 ÷ 50 |
| INS350LED-1200-J4-1 | 4620 | 34,5 | 134 | -40 ÷ 60 |
| INS350LED-1200-J4-3 | 6430 | 49,1 | 131 | -40 ÷ 50 |
| INS350LED-1200-B4-1 | 7980 | 57,8 | 138 | -40 ÷ 40 |



Luminous flux tolerance +/- 10%

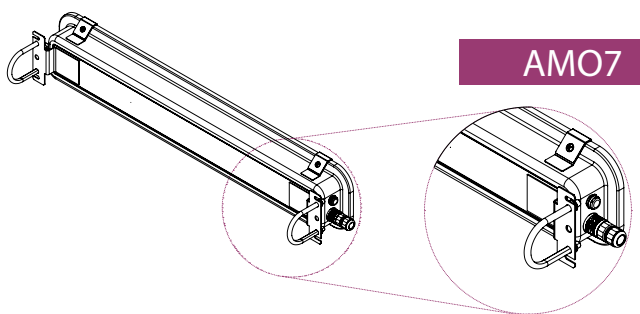
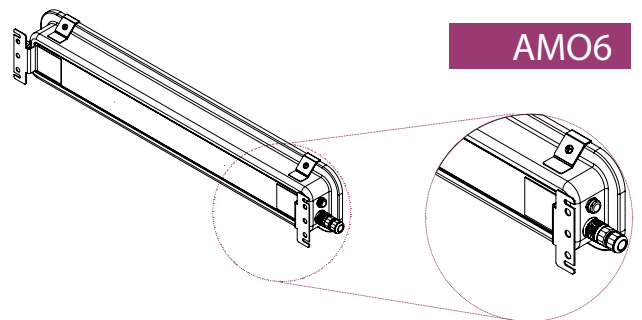
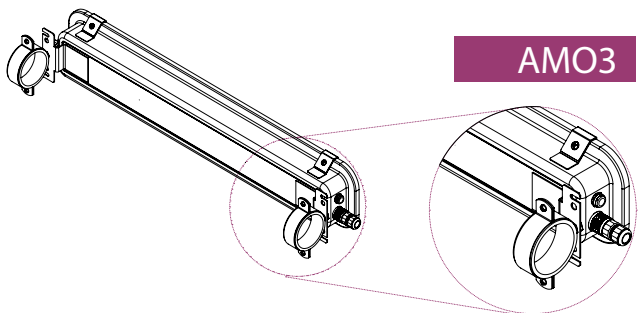
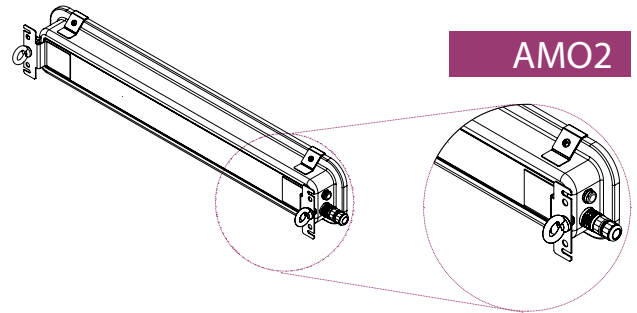
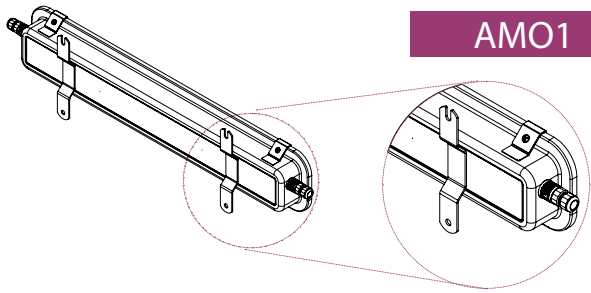
Power tolerance +/- 10%

The parameters given in the following data sheet has been determined for the temperature $T_a=25^{\circ}\text{C}$.

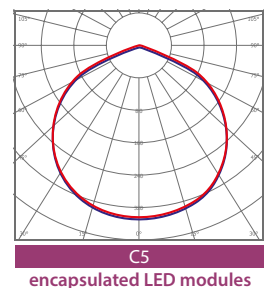
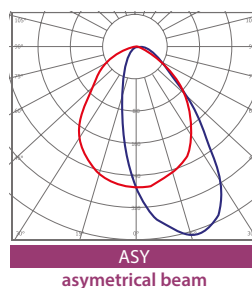
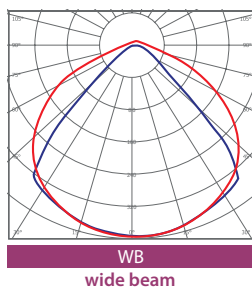
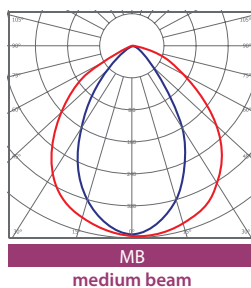
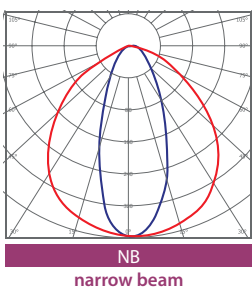
Luminous flux, light intensity distribution and efficiency has been tested on the basis of the standards EN ISO 17025:2005, norm series EN13032 and LM-79.

The actual data and General Warranty Conditions are available on our website www.atmlighting.pl

MOUNTINGS



PHOTOMETRIES



CONFIGURATIONS

| INS350LED | | | | | | | | E | | RST | 25 | NIRO | | | | | AMO6 | |
|--|---|---|---|---|---|---|---|----|----|-----|----|------|--|-----|-----|-----|------|------|
| group industrial light fittings | 0 | 6 | 0 | 0 | J | 2 | 1 | 35 | 20 | 10 | | | | PC | C5 | I | DA | AMO1 |
| type type 350 | 1 | 2 | 0 | 0 | B | 4 | 3 | 11 | 22 | 11 | | | | PM | NB | III | ZB | AMO2 |
| source of light LED modules | | | | | D | | | | 30 | | | | | GL | MB | | | AMO3 |
| aproximate length ~ 600mm, 1200mm | | | | | | | | | 33 | | | | | SGL | WB | | | AMO7 |
| LED module type | | | | | | | | | 50 | | | | | | ASY | | | |
| LED modules quantity | | | | | | | | | 55 | | | | | | | | | |
| driving current | | | | | | | | | | | | | | | | | | |
| input voltage 35E - 220-240V, 0/50±60Hz 11E - 24V, 0Hz | | | | | | | | | | | | | | | | | | |
| wiring 20 - single 2-pole terminal → 2 22 - double 2-pole terminal → 2 2 ← 30 - single 3-pole terminal → 3 33 - double 3-pole terminal → 3 3 ← 50 - single 5-pole terminal → 5 55 - double 5-pole terminal → 5 5 ← | | | | | | | | | | | | | | | | | | |
| cable inlets - quantity 10 - one cable inlet on the side of the housing → 1 0 11 - one cable inlet on each sides of the housing → 1 1 ← | | | | | | | | | | | | | | | | | | |
| cable inlets - type RST - plug and socket | | | | | | | | | | | | | | | | | | |
| cable inlets - size 25 - Ø25 | | | | | | | | | | | | | | | | | | |
| housing material NIRO - powder coated stainless steel | | | | | | | | | | | | | | | | | | |
| diffuser material PC - polycarbonate PM - PMMA poly(methym methacrylate) GL - tempered glass SGL - safety-glass (tempered glass with foil layers between) | | | | | | | | | | | | | | | | | | |
| optional optics version C5 - version adapted to work in a high corrosive environment C5. All the external parts are made of stainless steel. LED modules are encapsulated, which provide high lifetime. The encapsulated LED modules cannot be equipped with additional optics. NB - narrow beam optics MB - medium beam optics WB - wide beam optics ASY - asymetrical beam optics | | | | | | | | | | | | | | | | | | |
| protection class III protection class is available only with D modules (input voltage 24V, 0Hz) | | | | | | | | | | | | | | | | | | |
| optional versions DA - light fitting equipped with integrated driver with DALI protocol ZB - version adapted to work with central battery | | | | | | | | | | | | | | | | | | |
| mounting check: mountings Standard bracket: AMO6 | | | | | | | | | | | | | | | | | | |



Version with plug&socket set, so it is not needed to open the fitting during installation. This solution allows fast assembly and simplifies further exploitation.



Optional DA version of the light fitting is equipped with an integrated power supply unit with DALI interface, which allows to control parameters of lighting - depending on data from motion sensors or BIM settings. Properly configured lighting control system can significantly reduce costs of energy and improve the ergonomics of users.

DOWNLOADS

