

# INS350LED





Polish National Institute of Health Certificate:

BK/K/0013/01/2019

-35°C	+60°C	C5	CHEMICALLY RESISTANT NH <sub>3</sub>	NIRO	ENCAPSULATED LED
IP66	IP68	EASY CLEANING 	24 VDC	OPTIONAL CENTRAL BATTERY	CONTROL SYSTEM DALI

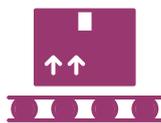
## EXEMPLARY APPLICATIONS



INDUSTRIAL BUILDINGS



WAREHOUSES



PRODUCTION LINES



COMPOSTING PLANTS

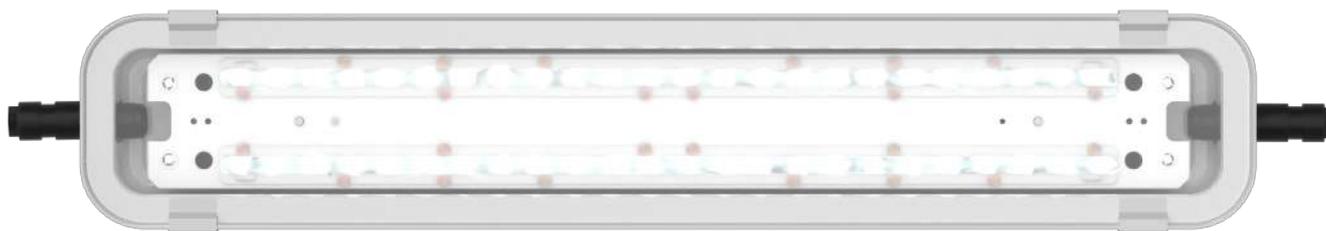


WASTE INCINERATORS

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-2 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**.

## FEATURES



## MECHANICAL PARAMETERS

	housing	powder coated stainless steel (NIRO)
	diffuser	polycarbonate (PC), polymethyl methacrylate (PM), tempered glass (GL), safety-glass (SGL)
	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	-35°C up to +60°C <i>check: types comparison</i>
	lifetime	>70.000h L <sub>80</sub> B <sub>10</sub> >100.000h L <sub>70</sub> B <sub>10</sub>

## PARAMETRY ELEKTRYCZNE

2,5 mm<sup>2</sup>220-240V 50-60Hz,  
220-240V 0Hz

24V, 0Hz

certified  
LED modules

&gt;0,97

RST (*wire 7-13mm*)L-N: 4kV  
L-PE: 4kVconnection  
terminalsinput  
voltage

35E

input  
voltage

11E

source  
of lightpower  
factor

plug-socket

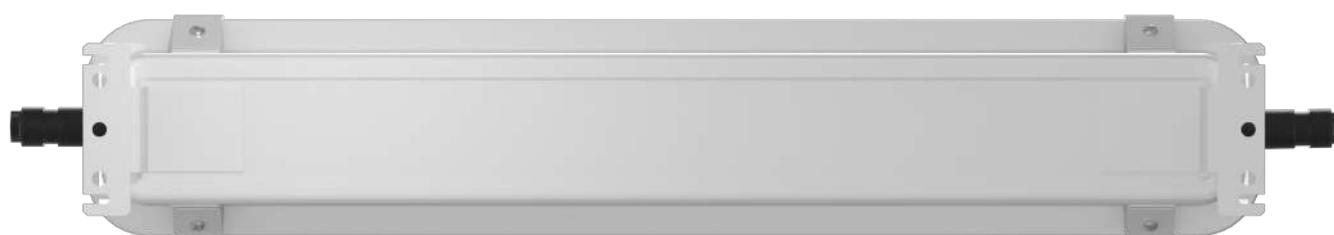
overvoltage  
protection

## PHOTOMETRICAL PARAMETERS

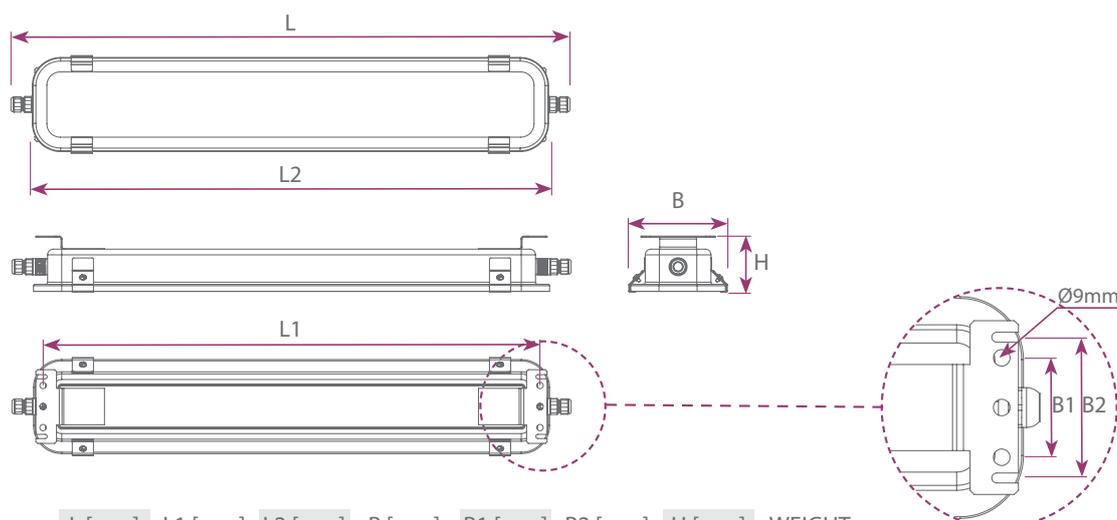
&gt;80

4000K  
4500K - C5  
6500K - *optional*

CRI

light  
temperature

## DIMENSIONS



TYPE	L [mm]	L1 [mm]	L2 [mm]	B [mm]	B1 [mm]	B2 [mm]	H [mm]	WEIGHT
INS350LED-0600	853	704	730	139	60	85	80	4,7kg
INS350LED-1200	1463	1314	1340	139	60	85	80	7,2kg

## TYPES COMPARISON

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

TYPE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	WORK TEMP. [°C]
INS350LED-0600-J2-1	2700	18,2	148	-35 ÷ 60
INS350LED-0600-J2-3	3700	25,7	144	-35 ÷ 50
INS350LED-1200-J4-1	5390	34,5	156	-35 ÷ 60
INS350LED-1200-J4-3	7500	49,1	153	-35 ÷ 50
INS350LED-1200-B4-1	9300	57,8	161	-35 ÷ 40
INS350LED-0600-D2*	2600	23,5	111	-35 ÷ 60
INS350LED-1200-D4*	5200	45,0	116	-35 ÷ 60

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

## STANDARD VERSIONS (OPTICS ASY)

TYPE	LUMINOUS FLUX [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	WORK TEMP. [°C]
INS350LED-0600-J2-1	2600	18,2	148	-35 ÷ 60
INS350LED-0600-J2-3	3700	25,7	144	-35 ÷ 50
INS350LED-1200-J4-1	5300	34,5	156	-35 ÷ 60
INS350LED-1200-J4-3	7300	49,1	153	-35 ÷ 50
INS350LED-1200-B4-1	9100	57,8	161	-35 ÷ 40
INS350LED-0600-D2*	2500	23,5	106	-35 ÷ 60
INS350LED-1200-D4*	5000	45,0	111	-35 ÷ 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	-35 ÷ 60
INS350LED-0600-J2-3	3100	25,7	121	-35 ÷ 50
INS350LED-1200-J4-1	4620	34,6	134	-35 ÷ 60
INS350LED-1200-J4-3	6500	49,1	132	-35 ÷ 50
INS350LED-1200-B4-1	7980	57,8	138	-35 ÷ 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](http://www.atmlighting.pl)

## MAXIMUM NUMBER OF LUMINAIRES CONNECTED IN SERIES DEPENDING ON THE PROTECTION USED:

TYPE	B16	C16	Max. starting current	Starting time
INS350LED	27	45	4A	<1300µs

OPTIONAL VERSIONS

**+ZB** Central battery: Version adapted to be powered from central battery **ZB**

DC voltage: 176-280V, 0Hz.

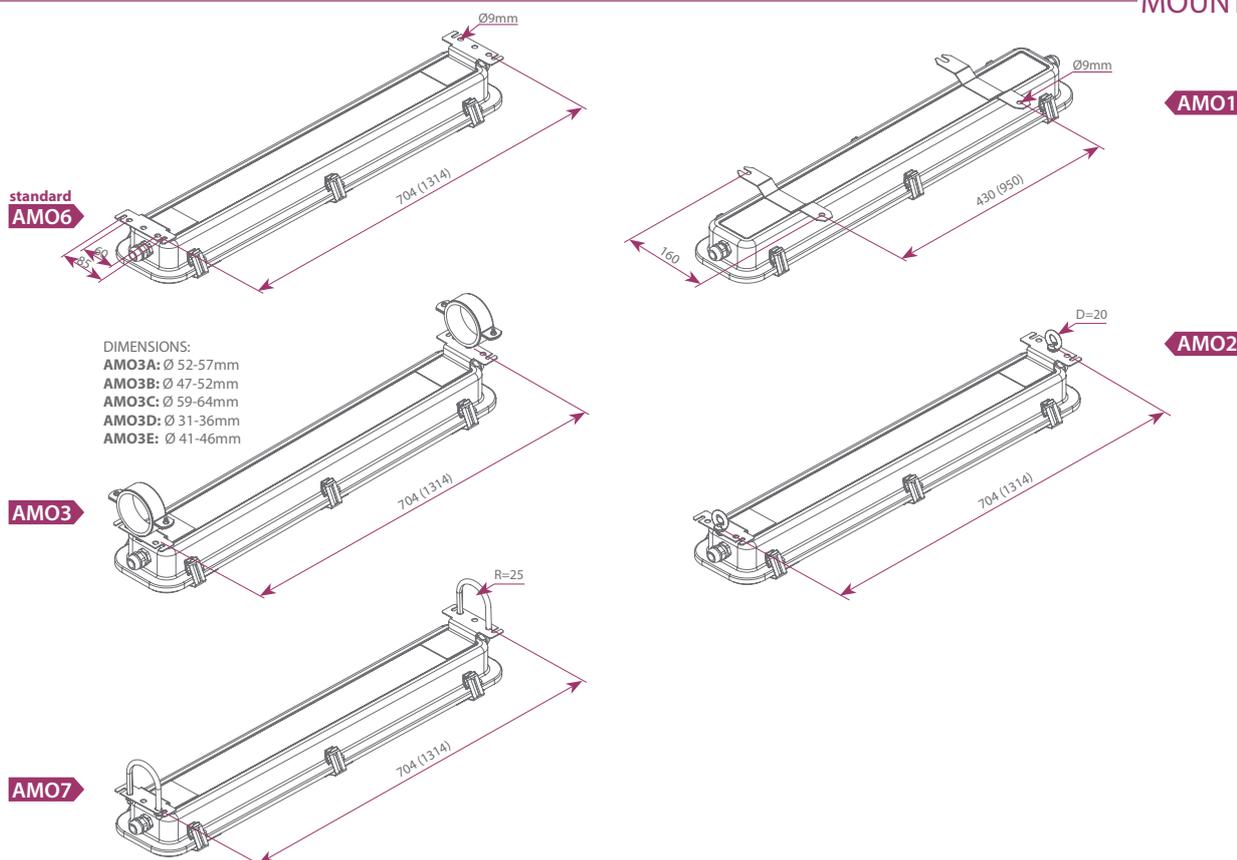
MEAN EMERGENCY MODE LUMINOUS FLUX [lm]

TYPE	NB, MB, WB OPTICS	ASY OPTICS	ENCAPSULATED LED (C5)
INS350LED-0600-J2-1	1350	1300	1100
INS350LED-0600-J2-3	1850	1850	1550
INS350LED-1200-J4-1	2695	2650	2310
INS350LED-1200-J4-3	3750	3650	3250
INS350LED-1200-B4-1	4650	4550	3990
INS350LED-0600-D2*	1300	1250	-
INS350LED-1200-D4*	2600	2500	-

**DALI** Driver with DALI: Optionally the luminaire can be equipped with DALI-2 driver. **DA**

Optionally, the luminaire can be equipped with an integrated power supply with a DALI-2 interface, which allows monitoring the operation of the luminaires and controlling the lighting using data directly from motion sensors or from the building management system (BIM). A properly configured lighting control system can significantly reduce electricity costs and improve the ergonomics of users' work. For temperatures below -30°C, DALI functionality may be limited. Power supply on the terminal > 12V.

MOUNTINGS



PHOTOMETRIES

