

# INS350LED





Polish National Institute of Health Certificate:

BK/K/0013/01/2019

		C5	CHEMICALLY RESISTANT NH <sub>3</sub>	NIRO	ENCAPSULATED LED
IP66	IP68	EASY CLEANING 	24 VDC	OPTIONAL CENTRAL BATTERY	CONTROL SYSTEM 

## EXEMPLARY APPLICATIONS



INDUSTRIAL  
BUILDINGS



WAREHOUSES



PRODUCTION  
LINES



COMPOSTING  
PLANTS

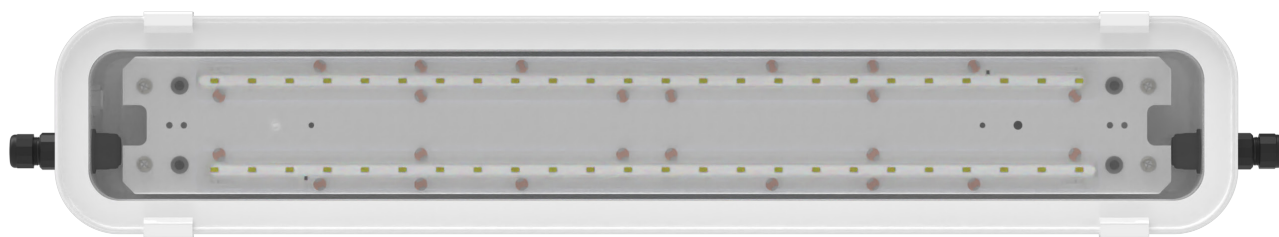


WASTE  
INCINERATORS








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**.

## FEATURES





## 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

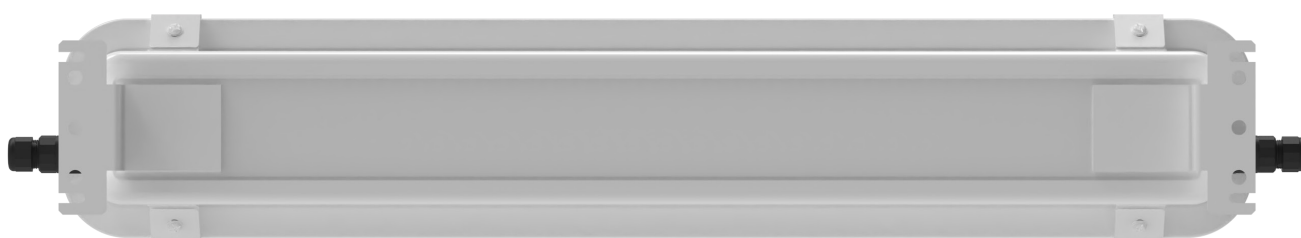
	ambient temperature	-40°C up to +60°C <i>check: types comparison</i>
	lifetime	>70.000h L <sub>80</sub> B <sub>10</sub>

## PARAMETRY ELEKTRYCZNE

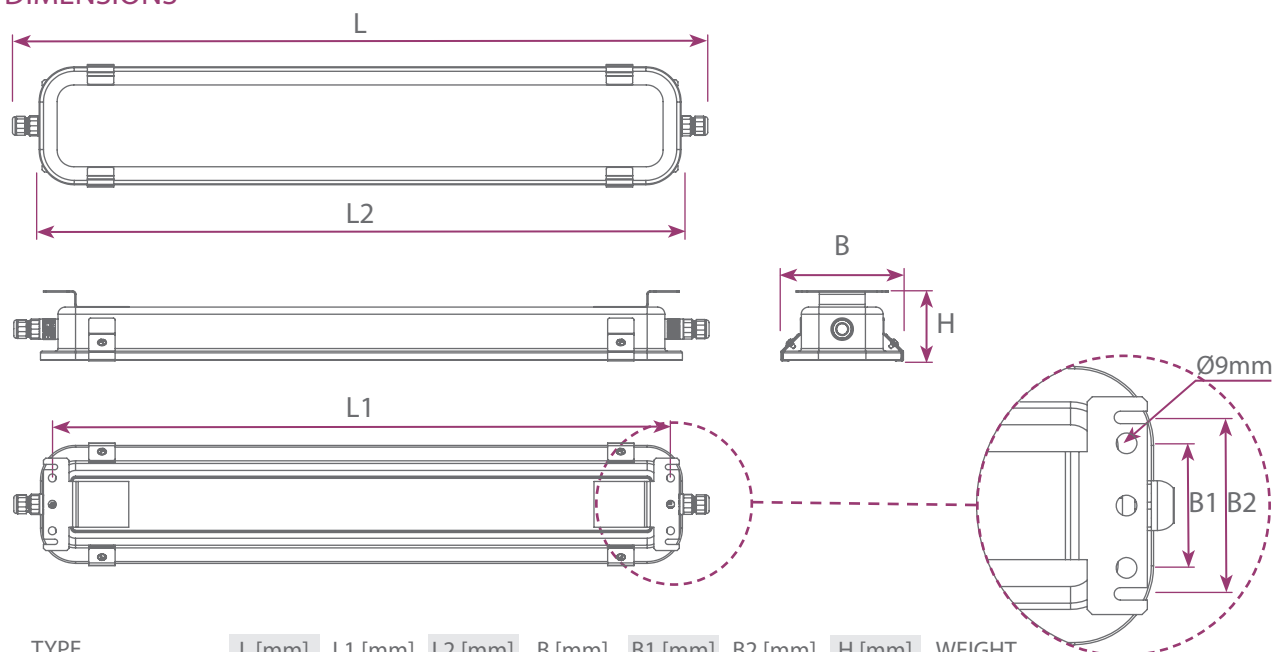
2,5 mm <sup>2</sup>	connection terminals	
220-240V, 0/50-60Hz	input voltage	<b>35E</b> 
24V, 0Hz	input voltage	<b>11E</b> 
certified LED modules	source of light	
>0,97	power factor	
Ø25 clamping range 7-12mm	plug-socket	
L-N: 4kV L-PE: 4kV	overvoltage protection	

## PHOTOMETRICAL PARAMETERS

>80	CRI	
6500K 5000K (24V, 0Hz) 4500K (C5) 4000K	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

## 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	-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	9300	57,8	161	-40 ÷ 40
INS350LED-0600-D2*	2600	23,5	111	-40 ÷ 60
INS350LED-1200-D4*	5200	45,0	116	-40 ÷ 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	-40 ÷ 60
INS350LED-0600-J2-3	3700	25,7	144	-40 ÷ 50
INS350LED-1200-J4-1	5300	34,5	156	-40 ÷ 60
INS350LED-1200-J4-3	7300	49,1	153	-40 ÷ 50
INS350LED-1200-B4-1	9100	57,8	161	-40 ÷ 40
INS350LED-0600-D2*	2500	23,5	106	-40 ÷ 60
INS350LED-1200-D4*	5000	45,0	111	-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	121	-40 ÷ 50
INS350LED-1200-J4-1	4620	34,6	134	-40 ÷ 60
INS350LED-1200-J4-3	6500	49,1	132	-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 Ta=25°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)

## OPTIONAL VERSIONS



Central battery:

Version adapted to be powered from central battery

**ZB**

## 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	-

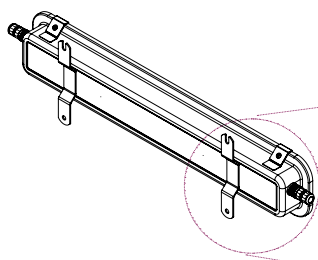
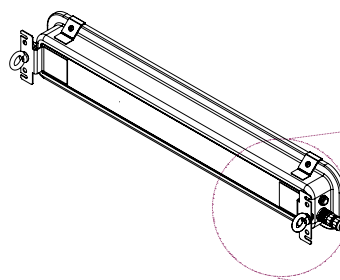
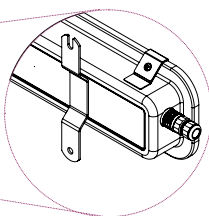
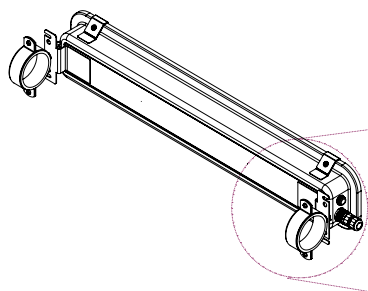
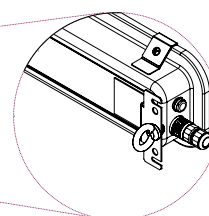
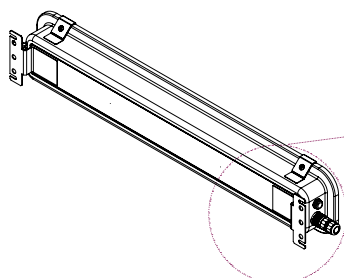
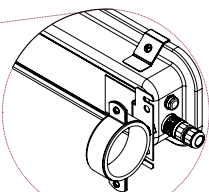
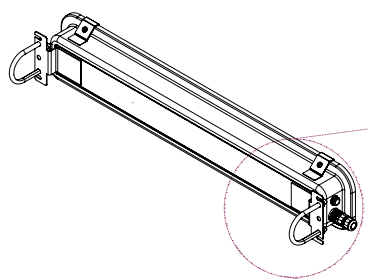
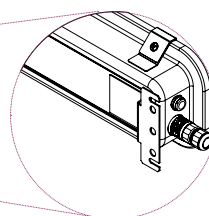
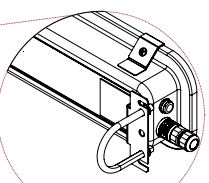


Zasilacz z interfejsem DALI:

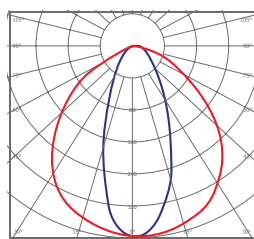
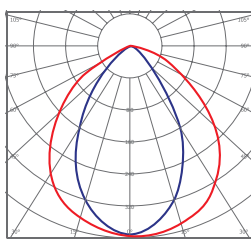
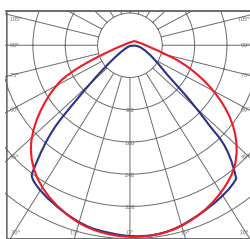
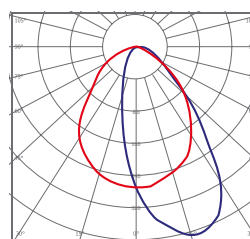
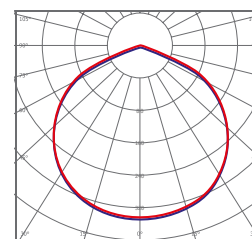
Opcjonalna wersja wyposażona w zintegrowany zasilacz z interfejsem DALI.

**DA**

## MOUNTINGS

**AMO1****AMO2****AMO3****AMO6****AMO7**

## PHOTOMETRIES

**NB**  
narrow beam**MB**  
medium beam**WB**  
wide beam**ASY**  
asymmetrical beam**C5**  
encapsulated LED modules



## CONFIGURATIONS

INS350LED										E		RST	25	NIRO					AMO6													
<b>group</b> industrial light fittings										0	6	0	0	J	2	1	35	20	10			PC	C5	I	DA	AMO1						
<b>type</b> type 350										1	2	0	0	B	4	3	11	22	11			PM	NB	III	ZB	AMO2						
<b>source of light</b> LED modules														D				30				GL	MB			AMO3						
<b>aproximate length</b> ~ 600mm, 1200mm																		33				SGL	WB			AMO7						
<b>LED module type</b>																		50					ASY									
<b>LED modules quantity</b>																		55														
<b>driving current</b>																																
<b>input voltage</b> 35E - 220-240V, 0/50÷60Hz 11E - 24V, 0Hz																																
<b>wiring</b> 20 - single 2-pole terminal → <input type="text" value="2"/> 22 - double 2-pole terminal → <input type="text" value="2"/> <input type="text" value="2"/> ← 30 - single 3-pole terminal → <input type="text" value="3"/> 33 - double 3-pole terminal → <input type="text" value="3"/> <input type="text" value="3"/> ← 50 - single 5-pole terminal → <input type="text" value="5"/> 55 - double 5-pole terminal → <input type="text" value="5"/> <input type="text" value="5"/> ←																																
<b>cable inlets - quantity</b> 10 - one cable inlet on the side of the housing → <input type="text" value="1"/> <input type="text" value="0"/> 11 - one cable inlet on each sides of the housing → <input type="text" value="1"/> <input type="text" value="1"/> ←																																
<b>cable inlets - type</b> RST - plug and socket																																
<b>cable inlets - size</b> 25 - Ø25																																
<b>housing material</b> NIRO - powder coated stainless steel																																
<b>diffuser material</b> PC - polycarbonate PM - PMMA poly(methym methacrylate) GL - tempered glass SGL - safety-glass (tempered glass with foil layers between)																																
<b>optional optics version</b> 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 - asymmetrical beam optics																																
<b>protection class</b> III protection class is available only with D modules (input voltage 24V, 0Hz)																																
<b>optional versions</b> DA - light fitting equipped with integrated driver with DALI protocol ZB - version adapted to work with central battery. Luminous flux for ZB version equals 50% of the nominal luminous flux value.																																
<b>mounting</b> 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

