



**MADE IN
POLAND**

HPL450LED MINI





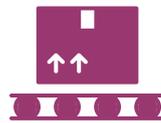
EXEMPLARY APPLICATIONS



INDUSTRY
BUILDINGS



WAREHOUSES



PRODUCTION
LINES



PASSAGEWAYS

Industrial, compact floodlight with high-lumen LED modules providing up to 10,810 lm. The luminaire can be equipped with one of six optical systems.

Optionally, the floodlight can be adapted for operation with a central battery system **ZB** and equipped with a power supply supporting the DALI-2 and D4i protocols for the **DA** version. Additionally, the luminaire can be fitted with a wireless communication module for the Thread® **WDA** network or adapted for use in a three-phase **3F** system.

FEATURES

MECHANICAL PARAMETERS

	housing	anodized aluminum (ALU)
	diffuser	tempered glass (GL) polycarbonate (PC)
	ingress protection	IP66, IP67
	protection class	I
	shock resistance	GL: IK09 PC: IK10
	mounting	on the bracket or suspended
	mounting accessories	check: <i>mountings</i>
	suspended mounting	adapted for suspended mounting
	wires between the fitting modules	halogen-free high temperature resistant silicone wires

WORK PARAMETERS

	ambient temperature	-40°C to max +55°C check: <i>types comparison</i>
	lifetime	>50.000h L ₈₀ B ₁₀ >80.000h L ₇₀ B ₁₀ >100.000h L ₇₀ B ₅₀

ELECTRICAL PARAMETERS

0,5÷4,0 mm ² 2,5÷6,0 mm ² - <i>optionally</i>	connection terminals	
202-254V, 50-60 Hz, 168-275V, 0 Hz voltage ± 10%	input voltage	35E 
100-199V, 50-60 Hz, 127-300V, 0 Hz	input voltage	25E 
heavy-duty industrial LED modules	light source	
>0,95	power factor	
THD < 9%	total harmonic distortion	
Ø20 (wire 6-13mm) Ø25 - option (wire 9-17mm)	cable inlets	
L-N: 6kV, L-PE: 10kV	overvoltage protection	

PHOTOMETRICAL PARAMETERS

>70 >80 - <i>optionally</i>	CRI	
4000K 3000K - <i>optionally</i> 5000K - <i>optionally</i> 6500K - <i>optionally</i>	color temperature	
≤3 SDCM	color tolerance (MacAdam)	
SVM < 0,4 due to IEC TR 61547-1:2020	flicker	
PstLM < 1 due to IEC TR 61547-1:2020	flicker index	



TYPES COMPARISON

POWER SUPPLY 35E (202-254V, 50-60 Hz | 168-275V, 0 Hz)

TYPE	LUMINOUS FLUX* [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	AMBIENT TEMP. [°C]
HPL450LED-HB2-1	3285	19,8	166	- 40°C ÷ +55
HPL450LED-HB2-2	5756	35,1	164	- 40°C ÷ +50
HPL450LED-HB2-3	8023	50,7	158	- 40°C ÷ +45
HPL450LED-HB2-4	10133	67,4	150	- 40°C ÷ +40

* - Luminous flux is indicated for CRI 70 LEDs and MB optics.

POWER SUPPLY 25E (100-199 V, 50-60 Hz | 127-300V, 0 Hz)

TYPE	LUMINOUS FLUX* [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	AMBIENT TEMP. [°C]
HPL450LED-HB2-2	5756	35,1	164	- 40°C ÷ +50
HPL450LED-HB2-3	8023	50,7	158	- 40°C ÷ +45
HPL450LED-HB2-4	10133	67,4	150	- 40°C ÷ +40

* - Luminous flux is indicated for CRI 70 LEDs and MB optics.



Luminous flux tolerance +/- 10%
 Power tolerance +/- 5%
 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

MAXIMUM NUMBER OF LUMINAIRES CONNECTED IN A LINE DEPENDING ON THE CIRCUIT BREAKERS USED

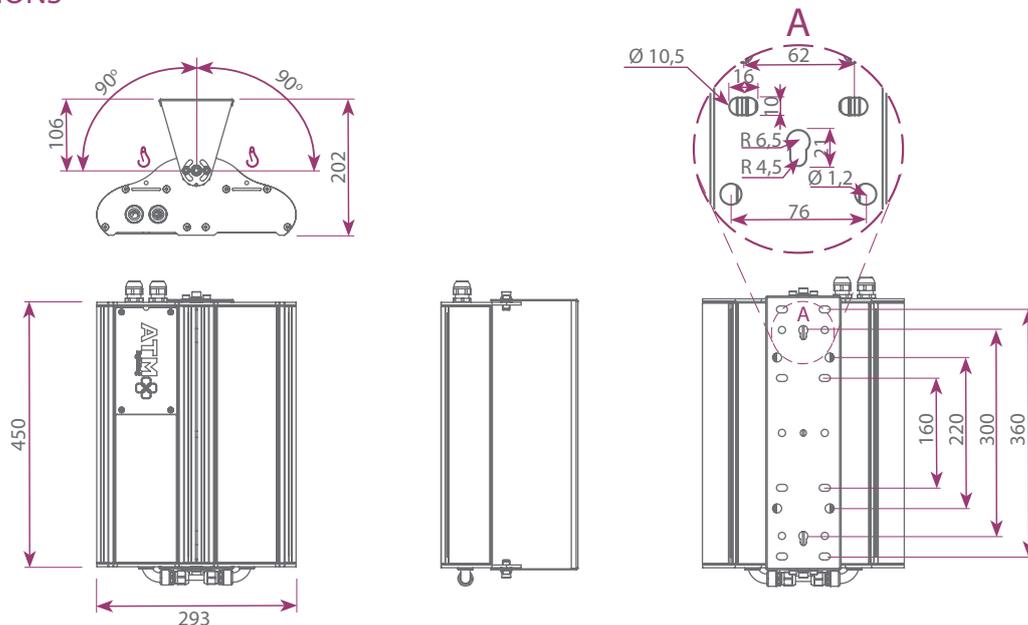
POWER SUPPLY 35E

TYPE	B16	C16	Max. start current	Starting time
HPL450LED-HB1	26	44	21A	< 225µs
HPL450LED-HB2/3/4	14	23	65A	< 156µs

POWER SUPPLY 25E

TYPE	B16	C16	Max. start current	Starting time
HPL450LED-HB2	13	15	33,8A	< 164µs

DIMENSIONS



OPTIONAL EQUIPMENT

ZB Central battery: Version compatible with a central battery system **ZB**
 Emergency luminous flux: 100% (HB2-2/3/4) or 50% (HB2-1).

DA DALI-2 driver: Version equipped with an integrated driver with DALI-2 and D4i interface **DA**

D4 The DA version is equipped with an integrated driver with a DALI-2 interface, enabling luminaire operation monitoring and lighting control using data directly from motion sensors or a building management system (BMS). A properly configured lighting control system can significantly reduce electricity costs and improve user ergonomics. The DA version luminaire does not include an emergency power module. The functionality of the DALI-2 driver can be extended with D4i (DALI for Internet of Things) for the HB2-2/3/4 versions, allowing for the collection and storage of luminaire operational data and supporting an enhanced resource management and performance monitoring system.

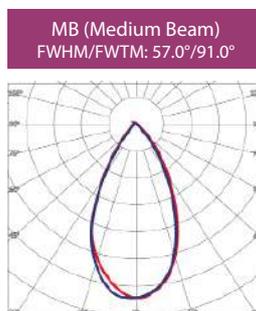
3F 3-phase network: Optional version adapted for three-phase power supply (max. voltage 277 V) **3F**

WDA Remote control: Optional version equipped with a wireless communication module for the Thread® network **WDA**

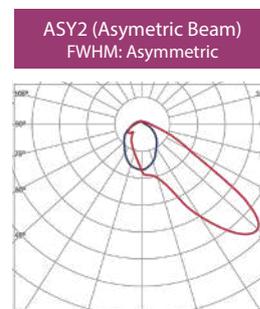
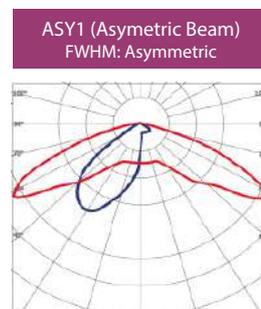
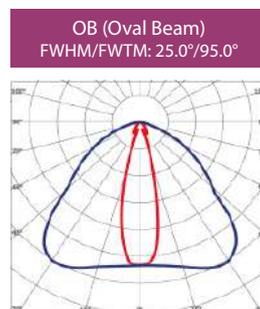
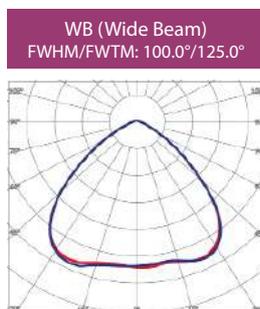
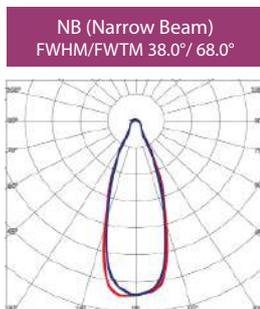
WARNING! A luminaire equipped with the WDA module, regardless of the diffuser material selected, should not be used in environments exposed to oil, acetone, chlorine, ethyl compounds, ether, or solvents.

PHOTOMETRY

STANDARD

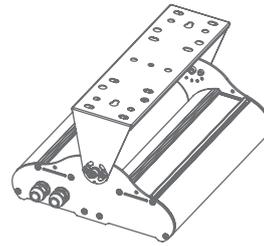
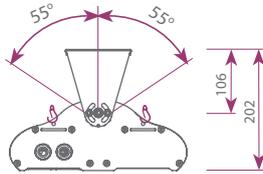


OPTIONALLY

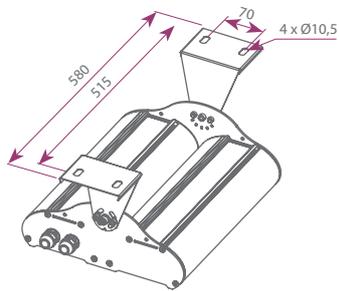
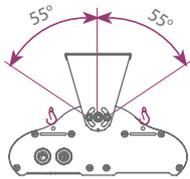


MOUNTINGS

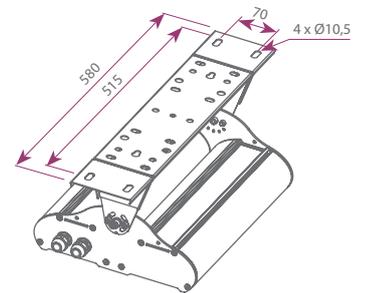
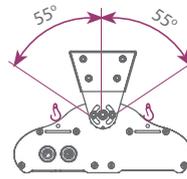
standard
AMO90



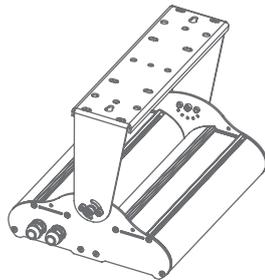
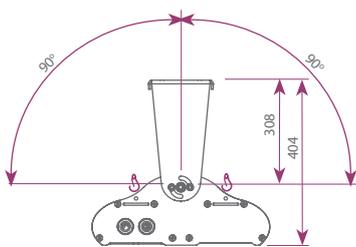
AMO45



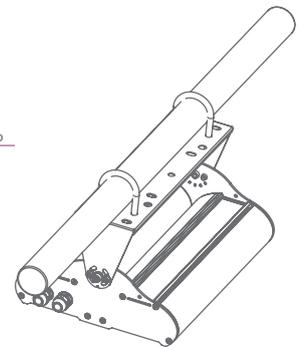
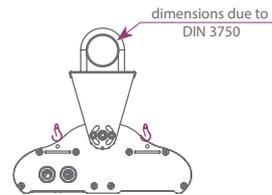
AMO90S



AMO180



AMO360



Suspended mounting:

By default, the luminaire is equipped with four mounting holes Ø5 mm, allowing it to be suspended.

CONFIGURATIONS

H P L 4 5 0 L E D - H B 2 -	-	35E	-	30	-	20	P	20	-	ALU	-		-	MB	-		-		-	AMO90
	1	25E	50	10	M	25					GL	NB	ZB	DA	3F					AMO45
LED modules type	2		70								PC	WB		WDA						AMO90S
LED modules quantity	3											OB								AMO180
driving current	4											ASY1								AMO360
power supply 35E - 202-254V, 50-60Hz; 168-275V 0Hz, 25E - 100-199V, 50-60Hz; 127-300V 0Hz												ASY2								
wiring 30 - single 3-pole terminal → <input type="text" value="3"/> 50 - single 5-pole terminal → <input type="text" value="5"/> 70 - single 7-pole terminal → <input type="text" value="7"/>																				
cable inlets - quantity 10 - one cable inlet on the side of the housing → <input type="text" value="1"/> <input type="text" value="0"/> 20 - two cable inlets on the side of the housing → <input type="text" value="2"/> <input type="text" value="0"/>																				
cable inlets - material M - metal P - plastic																				
cable inlets - size 20 - Ø20 25 - Ø25																				
housing material ALU - anodized aluminum																				
diffuser material GL - tempered glass PC - UV stabilised polycarbonate																				
optics check: <i>distribution curves</i>																				
version ZB version adapted to work with central battery																				
optional equipment DA - version equipped with integrated driver with DALI-2 and D4i interface WDA - version equipped with wireless Thread® network connection																				
version 3F version adapted to work in a three-phase network, equipped with connectors 5x2,5mm ² (L1, L2, L3, PE, N). Wiring 70.																				
mountings check: <i>mountings</i>																				

DOWNLOADS

