

**MADE IN
POLAND**

HPL450LED





EXEMPLARY APPLICATIONS



INDUSTRY
BUILDINGS



WAREHOUSES



PRODUCTION
LINES



PASSAGEWAYS

Industrial floodlight with LED modules with very high output. Equipped with focusing lens.

As a standard the light fixture is equipped with driver with DALI-2 and D4i interface **DA**, and adapted to work with central battery **ZB**.

Optionally the floodlight can be equipped with wireless connection module operating in the Thread® network **WDA**, or can be adapted to work in 3-phase network **3F**.

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

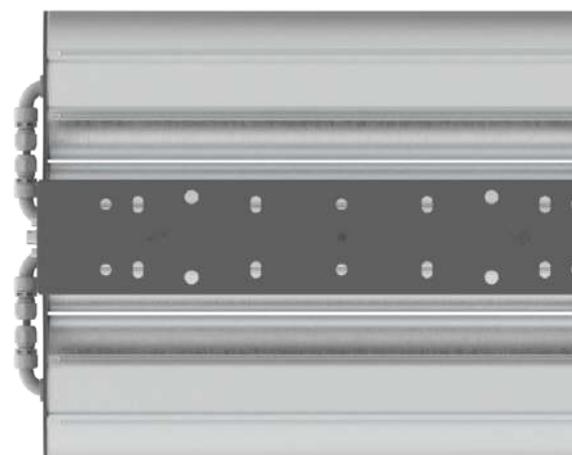
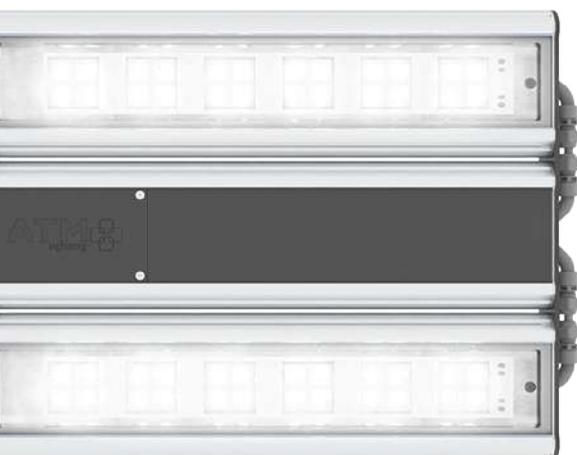
	ambient temperature	-40°C up to +65°C check: <i>types comparison</i>
	lifetime	>50.000h L ₈₀ B ₁₀ >70.000h L ₇₀ B ₁₀ >100.000h L ₇₀ B ₅₀

ELECTRICAL PARAMETERS

0,5÷4,0 mm ² 2,5÷6,0 mm ² - <i>optionally</i>	connection terminals	
200-277V, 50-60Hz 127-300V, 0Hz voltage ± 10%	input voltage	35E 
100-199V, 50-60Hz 127-300V, 0Hz voltage ± 10%	input voltage	25E 
heavy-duty industrial LED modules	light source	
>0,98	power factor	
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>	colour temperature	
≤3 SDCM	color temperature tolerance (MacAdam)	
SVM < 0,4 <i>acc. with IEC TR 61547-1:2020</i>	light pulsation	
PstLM < 1 <i>acc. with IEC TR 61547-1:2020</i>	flicker indicator	



TYPES COMPARISON

VERSION 35E (200-277 V, 50-60 Hz | 127-300V, 0 Hz)

TYPE	LUMINOUS FLUX* [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	AMBIENT TEMP. [°C] GL diffuser	AMBIENT TEMP. [°C] PC diffuser
HPL450LED-HE2-1	15500	103	150	- 40°C ÷ +65	- 40°C ÷ +55
HPL450LED-HE2-2	19000	132	144	- 40°C ÷ +55	- 40°C ÷ +50
HPL450LED-HE2-3	22000	155	142	- 40°C ÷ +50	- 40°C ÷ +45
HPL450LED-HE3-1	24000	152	158	- 40°C ÷ +65	- 40°C ÷ +55
HPL450LED-HE3-2	28500	197	145	- 40°C ÷ +55	- 40°C ÷ +50
HPL450LED-HE3-3	34000	240	142	- 40°C ÷ +50	- 40°C ÷ +45
HPL450LED-HE4-1	31500	205	154	- 40°C ÷ +65	- 40°C ÷ +55
HPL450LED-HE4-2	37500	260	144	- 40°C ÷ +55	- 40°C ÷ +50
HPL450LED-HE4-3	43000	307	140	- 40°C ÷ +50	- 40°C ÷ +45

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

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

TYPE	LUMINOUS FLUX* [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	AMBIENT TEMP. [°C] GL diffuser	AMBIENT TEMP. [°C] PC diffuser
HPL450LED-HE2-1	15500	103	150	- 40°C ÷ +60	- 40°C ÷ +55
HPL450LED-HE2-2	19000	132	144	- 40°C ÷ +55	- 40°C ÷ +50
HPL450LED-HE2-3	22000	155	142	- 40°C ÷ +50	- 40°C ÷ +45
HPL450LED-HE3-1	24000	152	158	- 40°C ÷ +55	- 40°C ÷ +55
HPL450LED-HE3-2	28500	197	145	- 40°C ÷ +50	- 40°C ÷ +50
HPL450LED-HE3-3	34000	240	142	- 40°C ÷ +50	- 40°C ÷ +45
HPL450LED-HE4-1	31500	205	154	- 40°C ÷ +50	- 40°C ÷ +50
HPL450LED-HE4-2	37500	260	144	- 40°C ÷ +55	- 40°C ÷ +50
HPL450LED-HE4-3	43000	307	140	- 40°C ÷ +50	- 40°C ÷ +45

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



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

MAXIMAL QUANTITY OF FITTINGS THAT MAY BE CONNECTED ACCORDING TO THE USED CIRCUIT BRAKER

Power supply 35E

TYPE	B16	C16	Max. starting current	Starting time
HPL450LED-HE2-1	8	14	123A	< 132µs
HPL450LED-HE2-2	9	15	120A	< 122µs
HPL450LED-HE2-3	9	15	120A	< 122µs
HPL450LED-HE3-1	9	15	120A	< 122µs
HPL450LED-HE3-2	5	8	89A	< 188µs
HPL450LED-HE3-3	4	7	58A	< 500µs
HPL450LED-HE4-1	5	8	89A	< 288µs
HPL450LED-HE4-2	4	7	12,4A	< 2400µs
HPL450LED-HE4-3	4	7	12,4A	< 2400µs

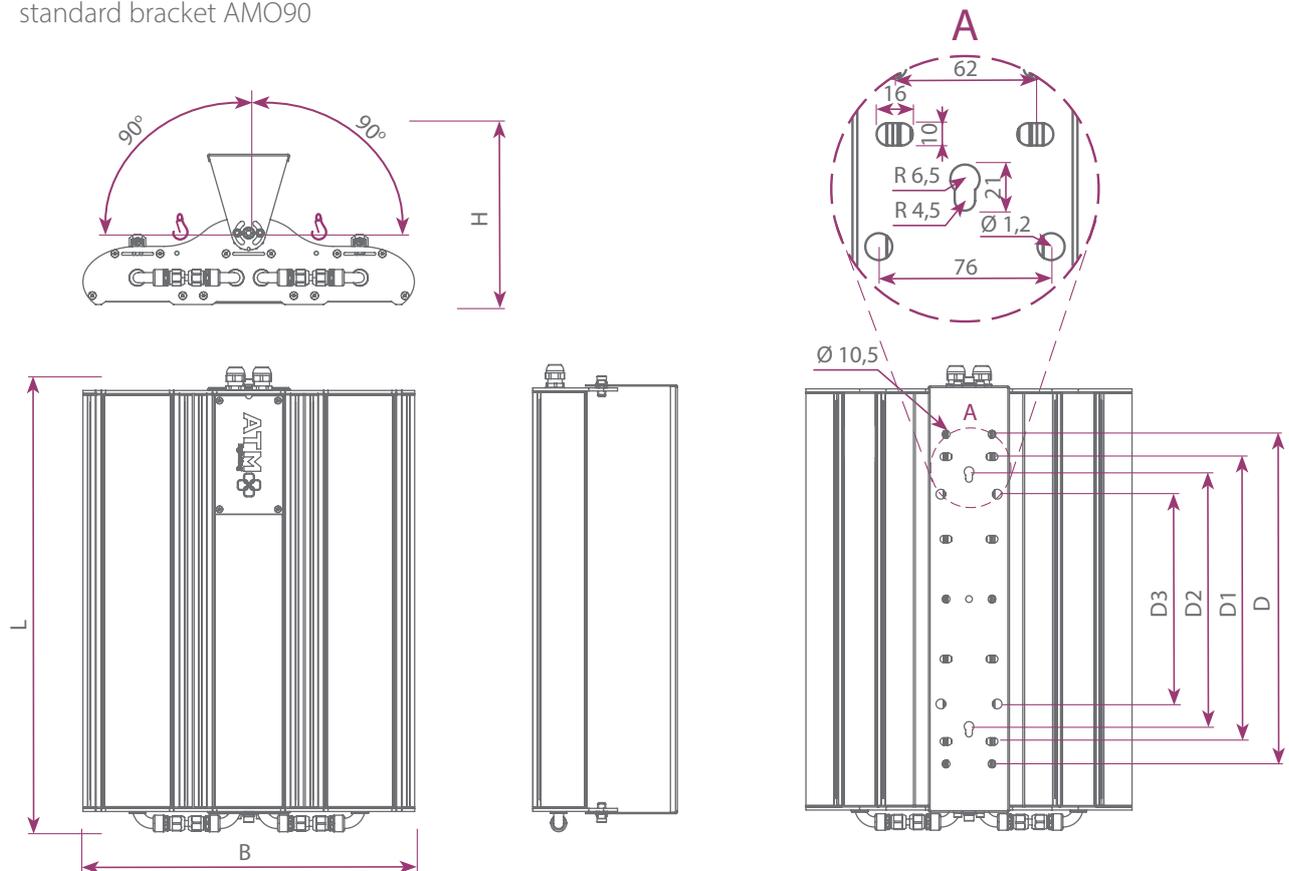
Power supply 25E

TYPE	B16	C16	Max. starting current	Starting time
HPL450LED-HE2-1	10	12	66,9A	< 134µs
HPL450LED-HE2-2	7	8	62A	< 136µs
HPL450LED-HE2-3	7	8	62A	< 136µs
HPL450LED-HE3-1	7	8	62A	< 136µs
HPL450LED-HE3-2	5	6	47,4A	< 296µs
HPL450LED-HE3-3	4	4	32A	< 440µs
HPL450LED-HE4-1	5	6	47,4A	< 296µs
HPL450LED-HE4-2	3	3	7,1A	< 2240µs
HPL450LED-HE4-3	3	3	7,1A	< 2240µs

WYMIARY

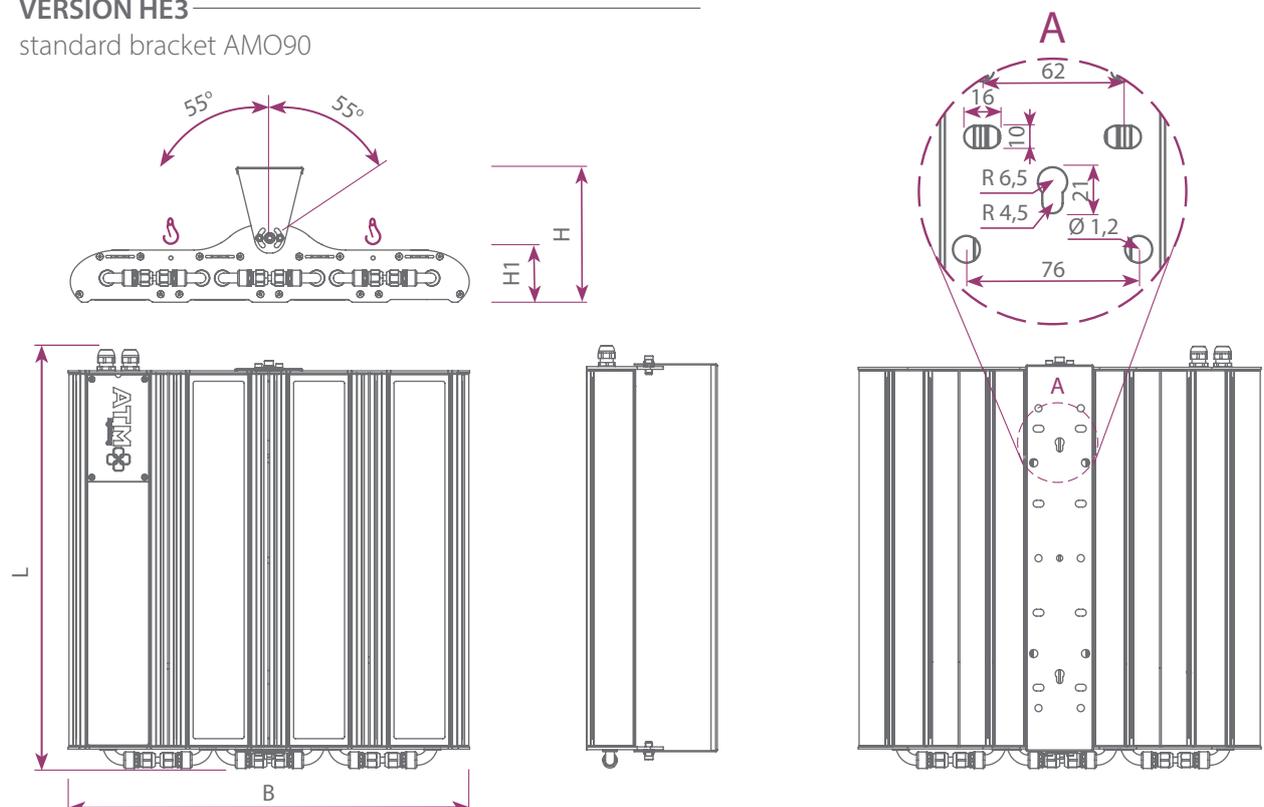
VERSION HE2

standard bracket AMO90



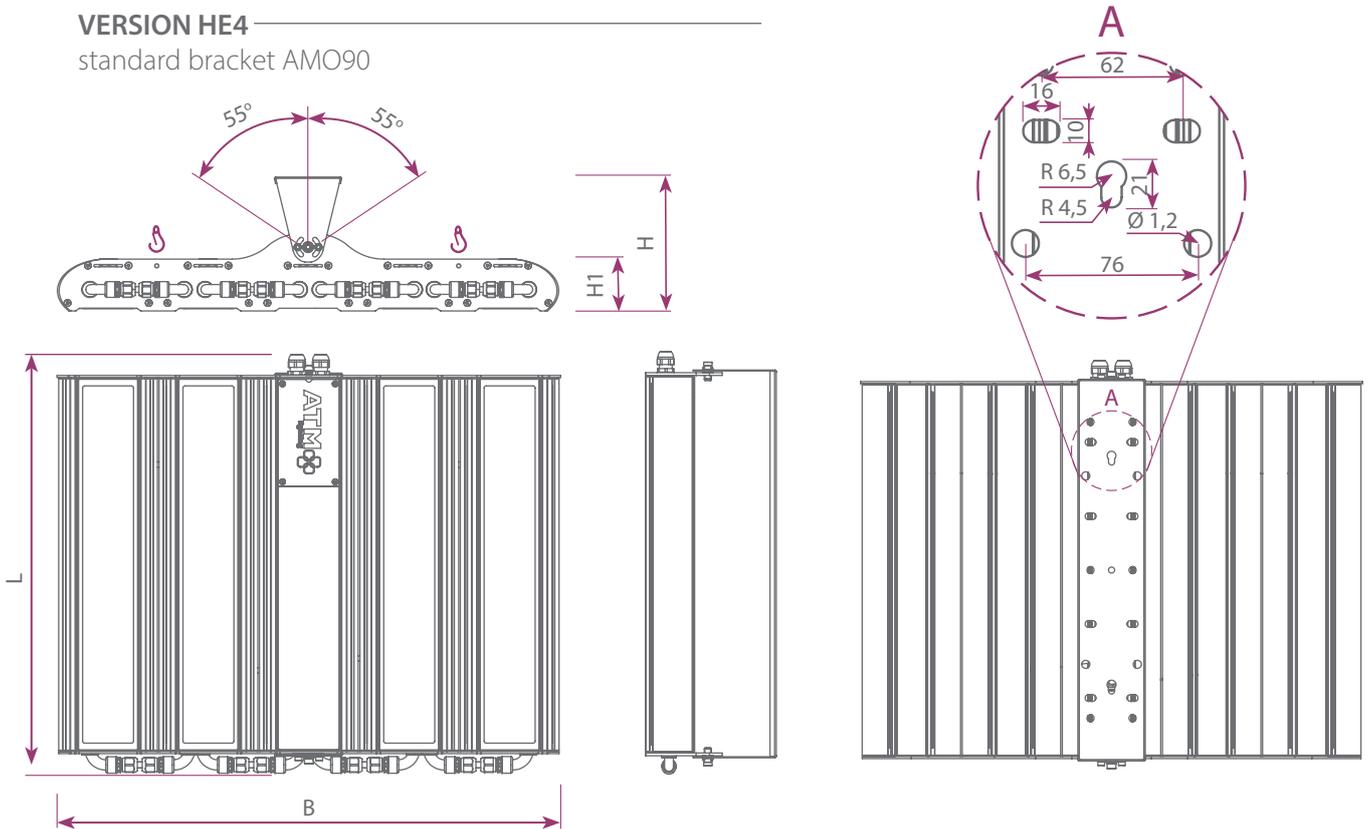
VERSION HE3

standard bracket AMO90



VERSION HE4

standard bracket AMO90



DIMENSIONS

TYPE	L	B	H	H1	D	D1	D2	D3	Weight [kg]
HPL450LED-HE2	620	435	202	78	440	380	340	280	10
HPL450LED-HE3	620	585	202	78	440	380	340	280	13
HPL450LED-HE4	620	735	202	78	440	380	340	280	16

STANDARD VERSIONS

ZB Central battery: Standard version adapted to work with central battery **ZB**

Luminous flux for version the with central battery equals nominal value (100%).

DA DALI driver: Standard version equipped with integrated driver with DALI-2 and D4i protocol **DA**

As a standard the light fitting is equipped with an integrated power supply with a DALI-2 interface, which allows to monitor the operation of light fixtures and control lighting using data directly from motion sensors or from the Building Management System (BMS). A properly configured lighting control system can significantly reduce electricity costs and improve the ergonomics of users' work.

D4 Extended feature of the DALI-2 driver with D4i (DALI for internet of things), used to collect and store data of the lighting fixture, and defining an improved resource management and efficiency monitoring system.

OPTIONAL EQUIPMENT

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

WDA Wireless connection: Optional version equipped with a wireless module operating in the Thread® network **WDA**



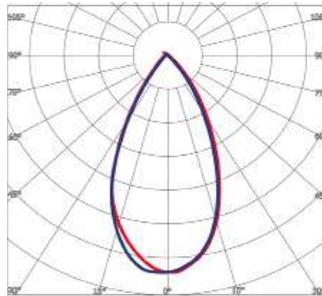
Window made of non-transparent polycarbonate

NOTE! Luminaires equipped with the WDA module, regardless of the choice of lampshade material, should not operate in an environment exposed to oil, acetone, chlorine, ethyl, ether and solvents.

DISTRIBUTION CURVES

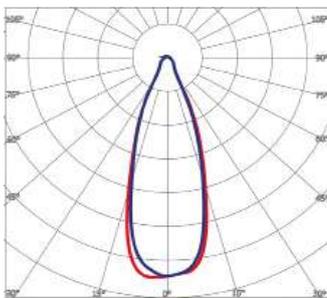
STANDARD

MB (Medium Beam)
FWHM/FWTM: 57.0°/91.0°

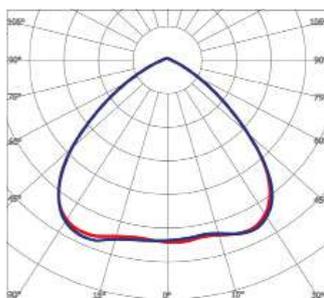


OPTIONAL

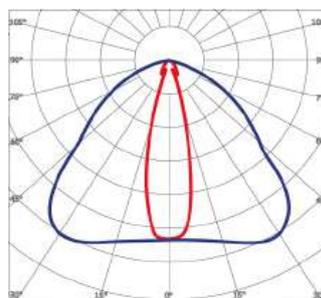
NB (Narrow Beam)
FWHM/FWTM 38.0°/ 68.0°



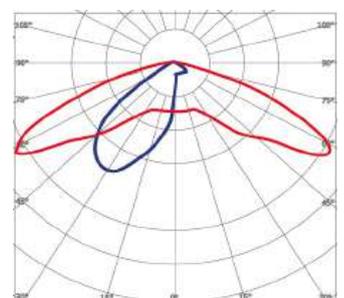
WB (Wide Beam)
FWHM/FWTM: 100.0°/125.0°



OB (Oval Beam)
FWHM/FWTM: 25.0°/95.0°



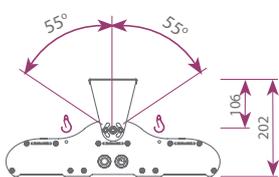
ASY (Asymmetric Beam)
FWHM: Asymmetric



MOUNTINGS

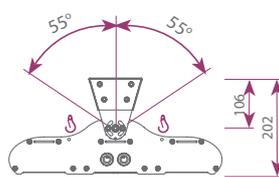
AMO90

standard



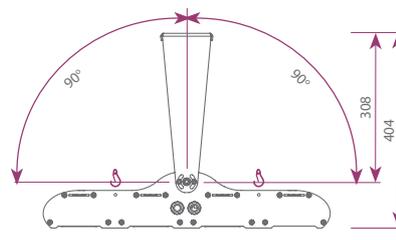
AMO90S

optional



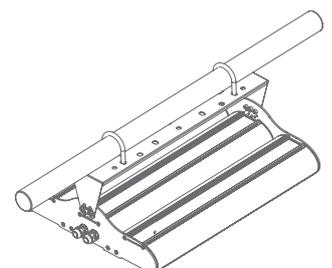
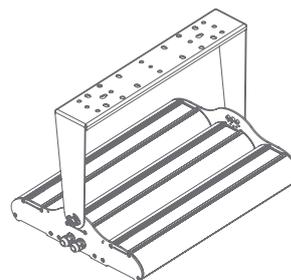
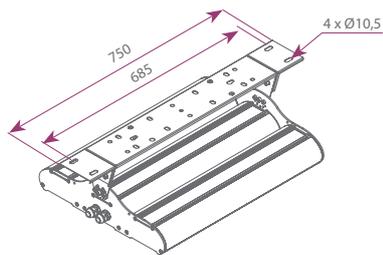
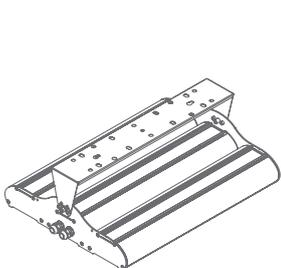
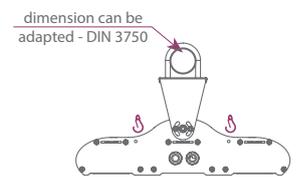
AMO180

optional



AMO360

optional



Suspended mounting:

As a standard the fixture has been adapted to be mounted in suspension - 4 holes Ø5mm

CONFIGURATIONS

H	P	L	4	5	0	L	E	D	-	H	E	-	-	35E	-	50	-	20	P	20	-	ALU	-	-	-	MB	-	ZB	-	DA	-	-	-	AMO90	
														25E		70		10	M	25					GL	NB			WDA		3F		AMO90S		
																								PC	WB									AMO180	
																										OB									AMO360
																										ASY									

LED modules type	2	1	35E	50	20	P	20	ALU	GL	NB	WDA	3F	AMO90S
LED modules quantity	3	2	25E	70	10	M	25	ALU	PC	WB	WDA	3F	AMO180
driving current	4	3	25E	70	10	M	25	ALU	PC	OB	WDA	3F	AMO180
power supply													
	35E - 200-277V, 50-60Hz; 127-300V 0Hz, 25E - 100-199V, 50-60Hz; 127-300V 0Hz												
wiring													
	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

