



Hazardous
Lighting Solutions LTD



HPL450LED

Industrial floodlight with LED modules with very high output



INDUSTRIAL BUILDINGS



WAREHOUSES



PASSAGEWAYS



PRODUCTION LINES



MECHANICAL FEATURES

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 mountings

Wires between the fitting modules:

Halogen-free high temperature resistant
silicone wires

ELECTRICAL FEATURES

Connection terminals: 0.5–4.0 mm², 2.5–6.0 mm²
(optionally)

Input voltage (35E): 200–277V, 50–60Hz; 127–
300V, 0Hz (voltage ±10%)

Input voltage (25E): 100–199V, 50–60Hz; 127–
300V, 0Hz (voltage ±10%)

Light source: Heavy-duty industrial LED modules

Power factor: >0.98

Cable inlets: Ø20 (wire 6–13 mm), Ø25 option
(wire 9–17 mm)

Overvoltage protection: L–N 6kV, L–PE 10kV

WORK PARAMETERS

Ambient temperature: –40°C up to
+65°C (check types comparison)

Lifetime:

50,000h L80 B10

70,000h L70 B10

100,000h L70 B50

PHOTOMETRICAL PARAMETERS

CRI: >80

Colour temperature: 4000K / 3000K (optionally)

TYPES COMPARISON

VERSION 35E (200–277 V, 50–60 HZ | 127–300 V, 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

VERSION 25E (100–199 V, 50–60 HZ | 127–300 V, 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 ÷ +60	-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

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	<28µs
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

STANDARD VERSIONS



Standard version adapted to work with central battery



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

OPTIONAL EQUIPMENT

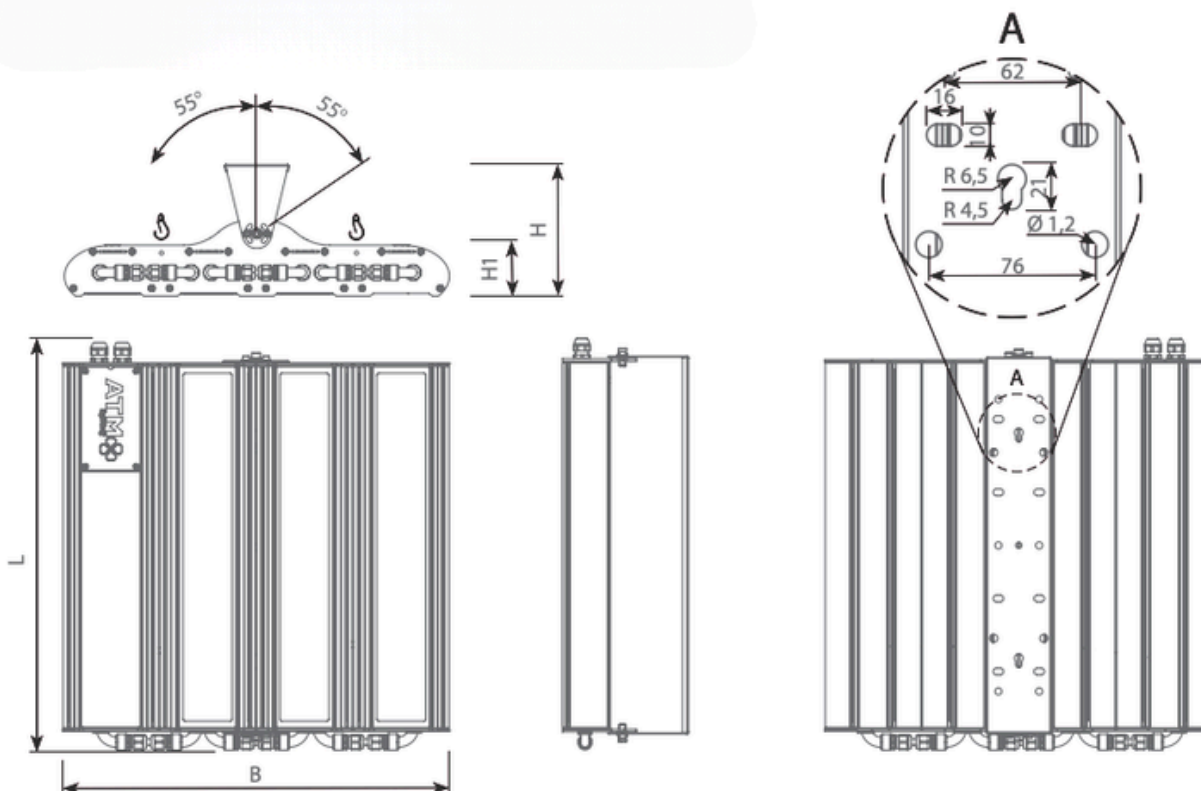
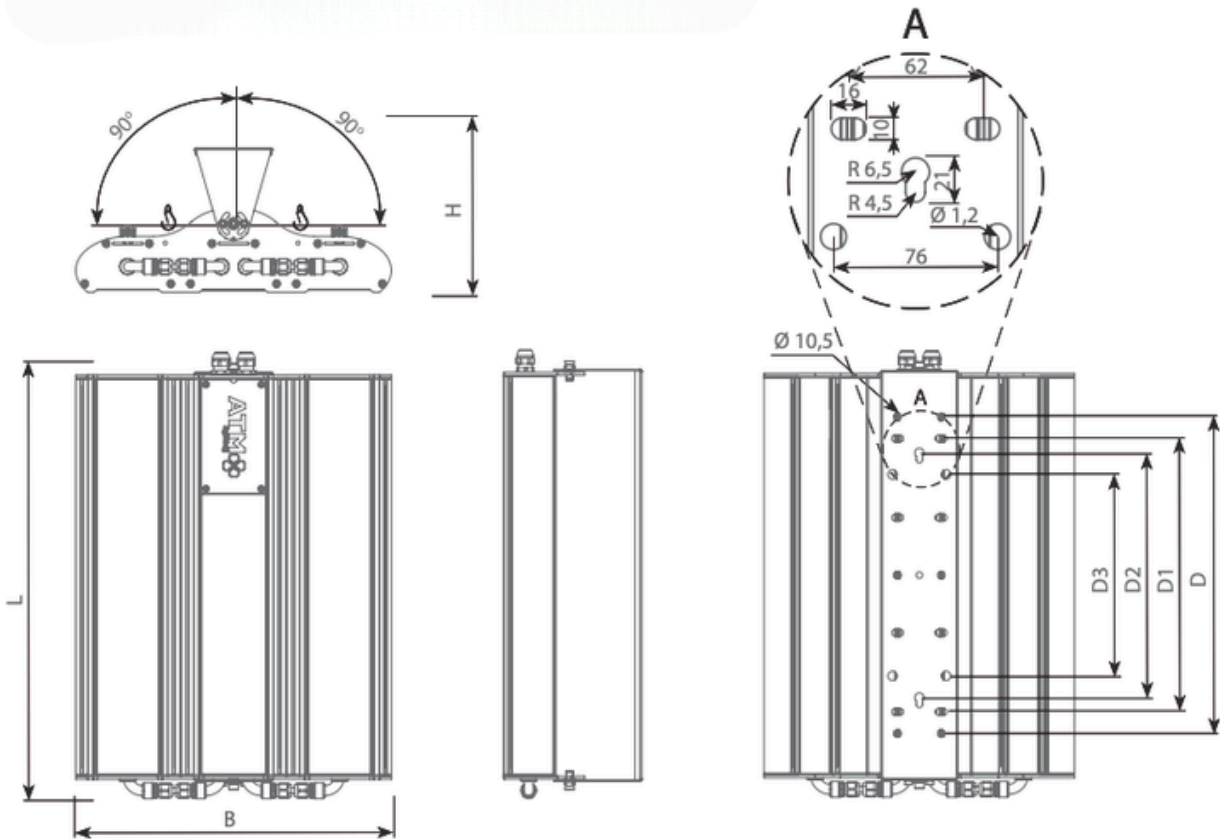
3F

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

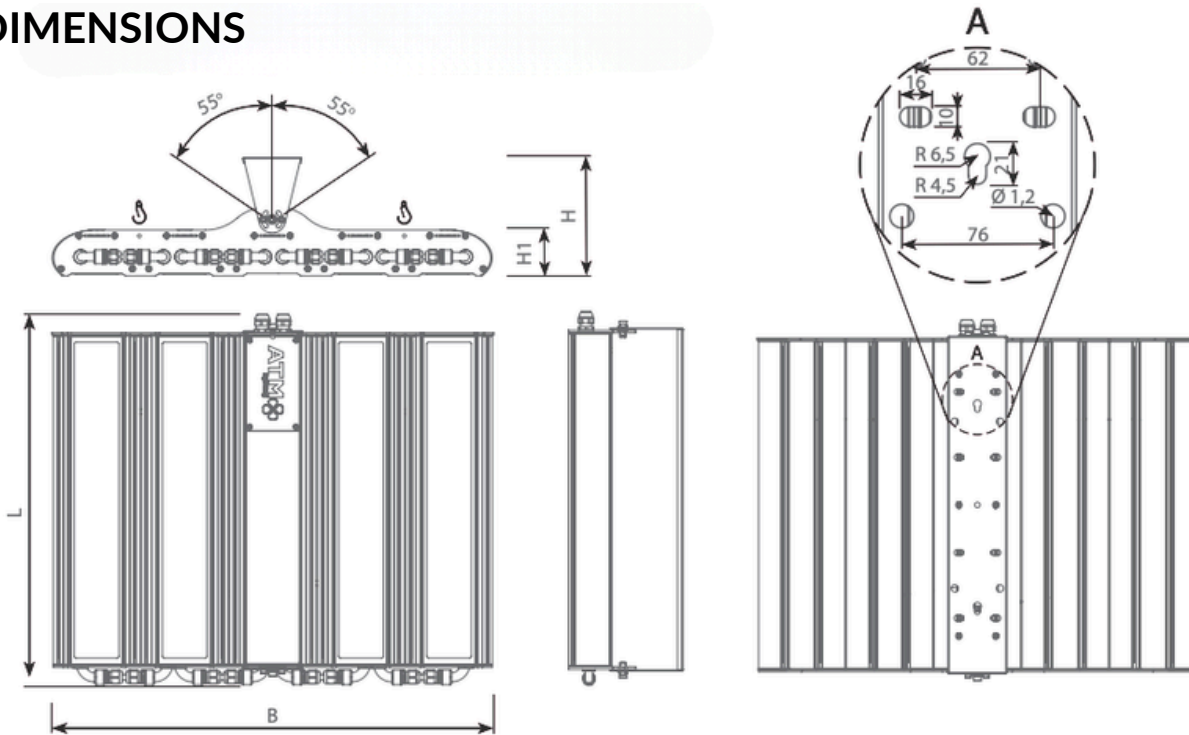


Optional version equipped with a wireless module operating in the Thread® network

DIMENSIONS

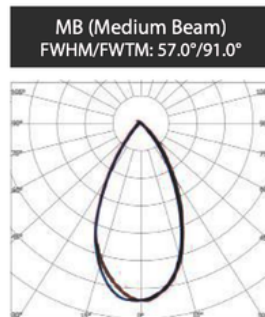


DIMENSIONS

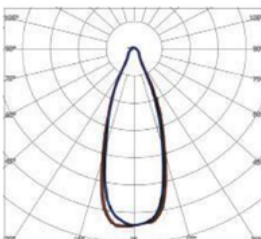


Type	L	B	H	H1	D	D1	D2	D3	Weight [kg]
HPL450LED-HE2	620	435	202	78	440	380	340	280	10
HPL450LED-HE3	620	585	202	78	440	380	340	280	13
HPL450LED-HE4	620	735	202	78	440	380	340	280	16

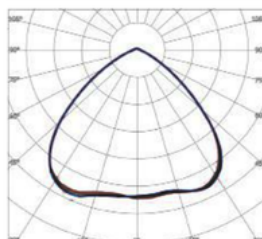
PHOTOMETRY



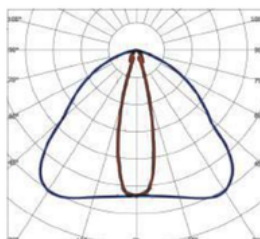
NB (Narrow Beam)
FWHM/FWTM: 38.0°/68.0°



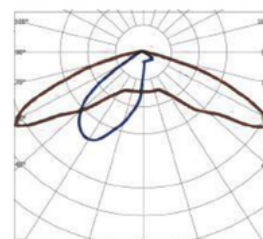
WB (Wide Beam)
FWHM/FWTM: 100.0°/125.0°



OB (Oval Beam)
FWHM/FWTM: 25.0°/95.0°



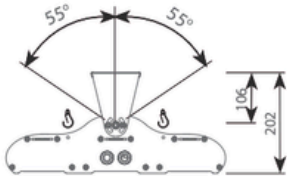
ASY (Asymmetric Beam)
FWHM: Asymmetric



MOUNTING

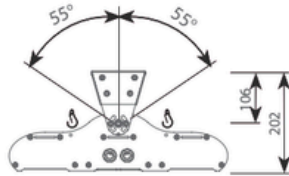
AMO90

standard



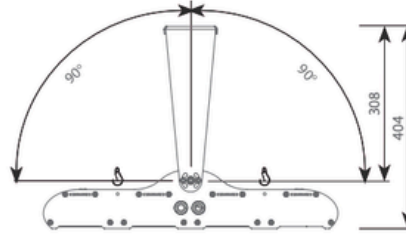
AMO90S

optional



AMO180

optional



AMO360

optional

