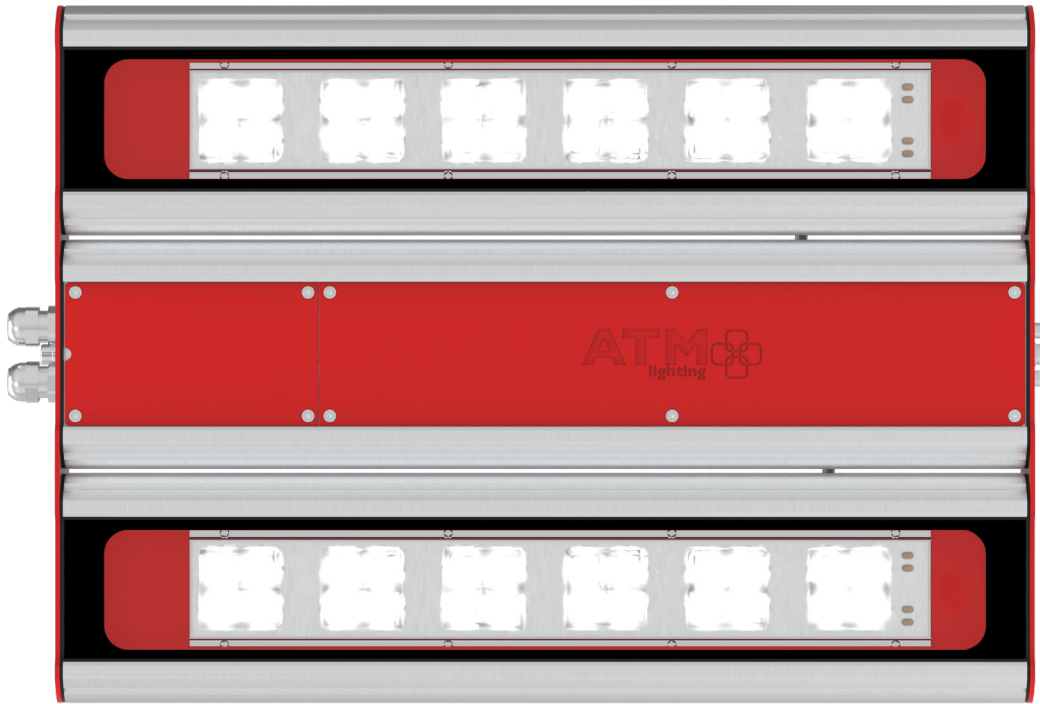
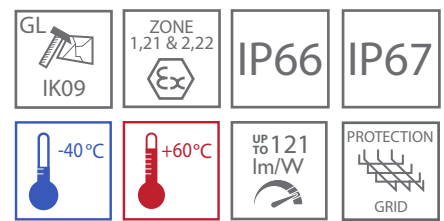
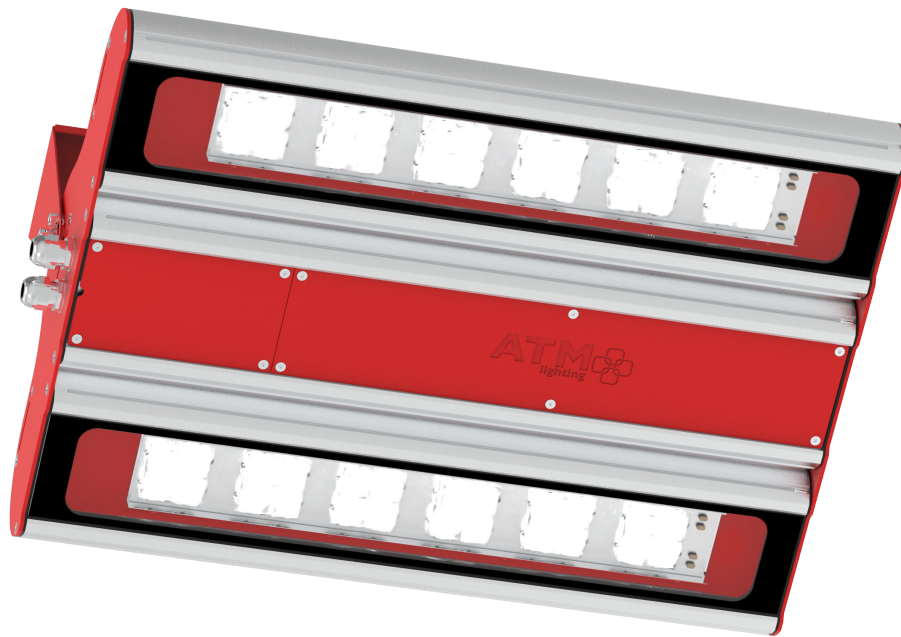


ZONE 1,21 & 2,22



EXF450LED





EX MARKING:



II 2G Ex eb mb IIC T4/T5 Gb
II 2D Ex tb IIIC T85...115°C Db

CERTIFICATES:

OBAC 23 ATEX 0129

EXEMPLARY APPLICATIONS



REFINERIES



OFFSHORE

CHEMICAL
PLANTSCHEMICAL
WAREHOUSES










Explosion-proof floodlight with **LED** modules with very high luminous flux. Designed to be used in the zones **1,21&2,22** of the explosion hazard of gases, vapors and mists of flammable liquids with air, as well as of flammable dusts and fibers.

The housing is made of anodized aluminum. The diffuser is made of tempered glass.



Versions **3F** compatible with 3-phase network.
Additional accessories as protection grid **PRG**.

FEATURES







MECHANICAL PARAMETERS

	housing	anodized aluminum
	diffuser	tempered glass,
	ingress protection	IP66, IP67
	protection class	I
	shock resistance	IK09
	mounting	on the bracket
	mounting accessories	check: <i>mountings</i>
	optional accessories	protection grid,
	wires between the fitting modules	high temperature resistant silicone wires





WORK PARAMETERS

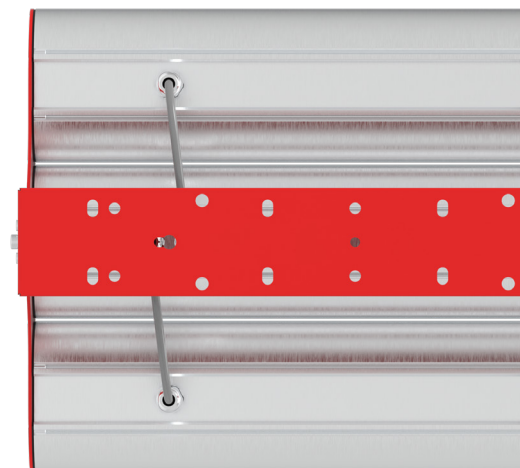
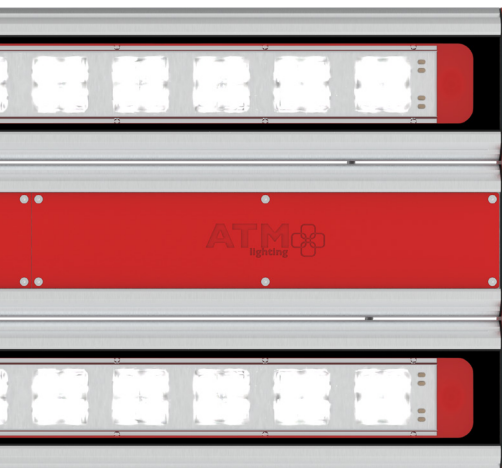
	ambient temperature	-40°C up to +60°C check: <i>types comparison</i>
	lifetime	>50.000h L ₈₀ B ₁₀ >70.000h L ₇₀ B ₁₀

ELECTRICAL PARAMETERS

2,5 mm ² 6,0 mm ² - <i>optionally</i>	connection terminals	
100-277 V, 50-60 Hz voltage ± 10%	input voltage	
intrinsically safe LED modules	light source	
>0,98	power factor	
Ø20 Ø25	cable inlets	
L-N 6kV, L-PE 10kV	overvoltage protection	

PHOTOMETRICAL PARAMETERS

>80 >90 - <i>optionally</i>	CRI	
4000K 6000K - <i>optionally</i>	colour temperature	
SVM < 0,01 <i>acc. with IEC TR 61547-1:2020</i>	light pulsation	
PstLM < 0,3 <i>acc. with IEC TR 61547-1:2020</i>	flicker indicator	



TYPES COMPARISON

TYPE OF THE FITTING	LUMINOUS FLUX* [lm]	POWER CONSUMP. [W]	EFFICIENCY [lm/W]	AMBIENT TEMPERATURE [°C]	TEMP. CLASS / MAX. AMBIENT TEMPERATURE
EXF450LED-EY2-1	12500	103	121	-40°C ÷ +60 -40°C ÷ +50	T4 / T90 °C T5 / T80 °C
EXF450LED-EY2-2	17500	158	111	-40°C ÷ +50	T4 / T95 °C
EXF450LED-EY3-1	19000	160	119	-40°C ÷ +55 -40°C ÷ +50	T4 / T85 °C T5 / T80 °C
EXF450LED-EY3-2	22500	198	114	-40°C ÷ +55 -40°C ÷ +45	T4 / T100 °C T5 / T90 °C
EXF450LED-EY3-3	26100	238	110	-40°C ÷ +50	T4 / T115 °C
EXF450LED-EY4-1	25000	207	121	-40°C ÷ +55 -40°C ÷ +45	T4 / T90 °C T5 / T80 °C

* - Luminous flux is indicated for LED modules CRI 80 and STD optics.



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

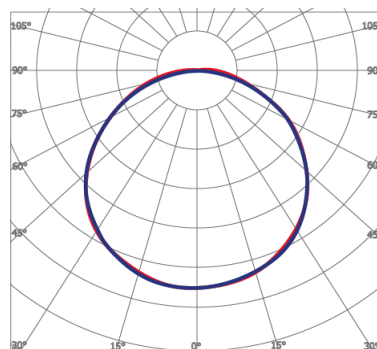
MAXIMAL QUANTITY OF FITTINGS THAT MAY BE CONNECTED ACCORDING TO THE USED CIRCUIT BRAKER

LUMINOUS FLUX	B16	C16
EXF450LED-EY2-1	11	21
EXF450LED-EY2-2	6	11
EXF450LED-EY3-1	6	11
EXF450LED-EY3-2	3	6
EXF450LED-EY3-3	4	7
EXF450LED-EY4-1	3	6

Above values are indicated for the power supply voltage 230 VAC.

PHOTOMETRY

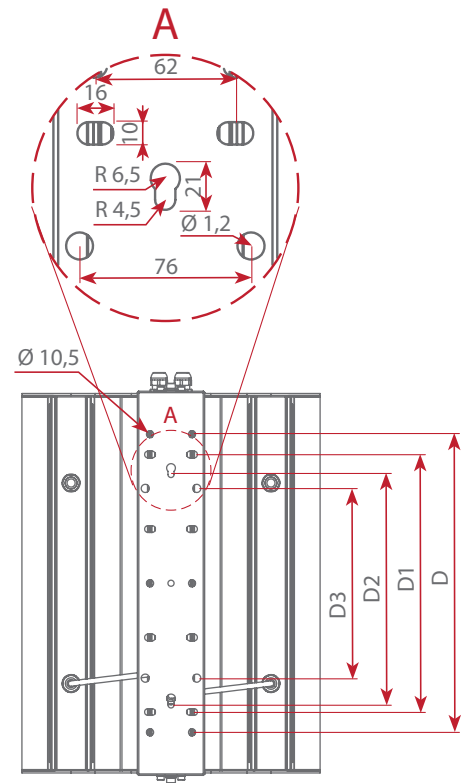
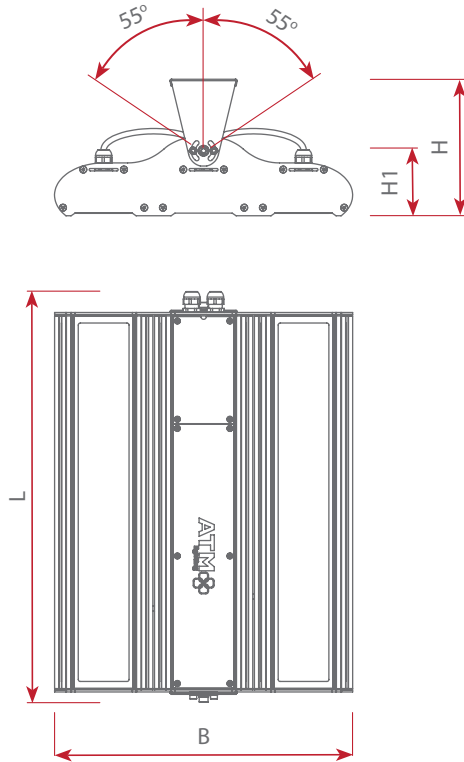
STD (Standard)
no additional optics



DIMENSIONS

VERSION EY2

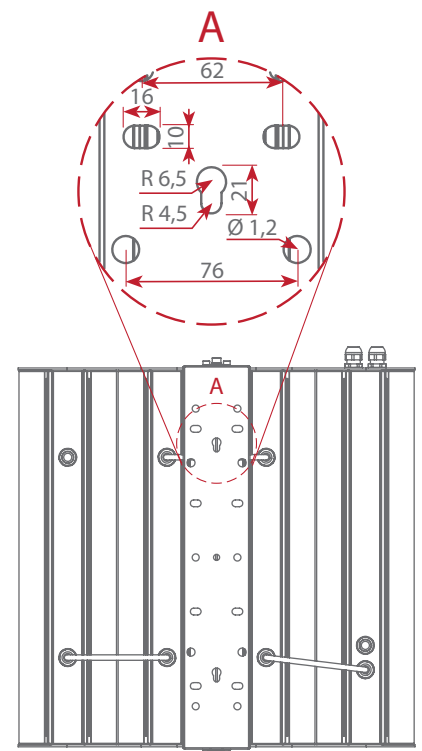
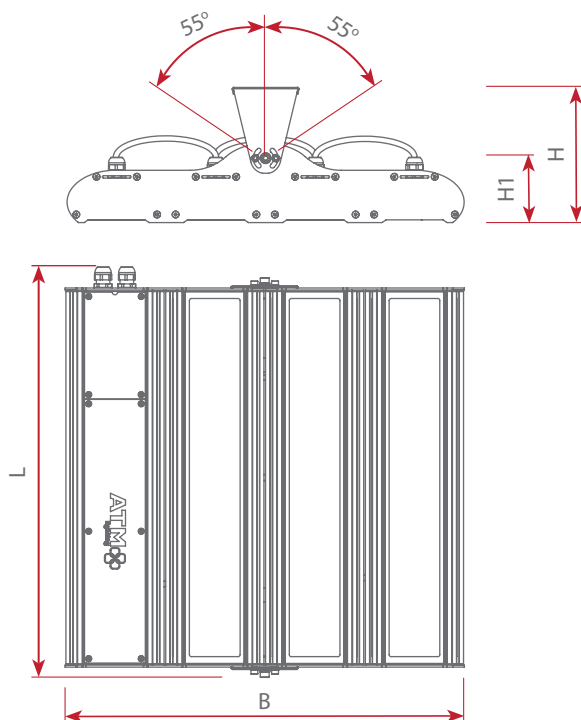
standard bracket AMO90



TYP	L	B	H	H1	D	D1	D2	D3	Weight
EXF450LED-EY2	656	435	202	97	490	430	390	330	11 kg

VERSION EY3

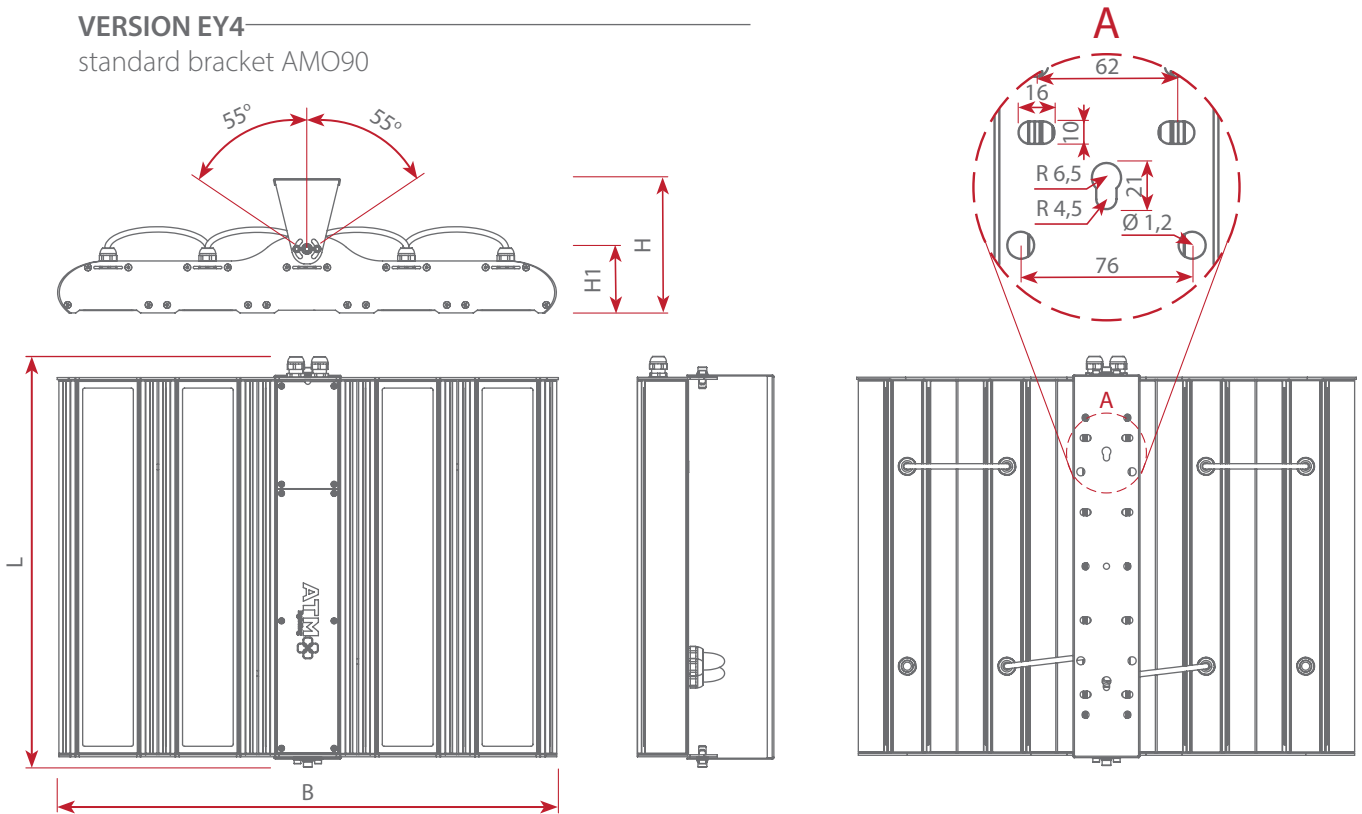
standard bracket AMO90



TYPE	L	B	H	H1	D	D1	D2	D3	Weight
EXF450LED-EY3	656	585	202	97	490	430	390	330	14 kg

VERSION EY4

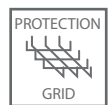
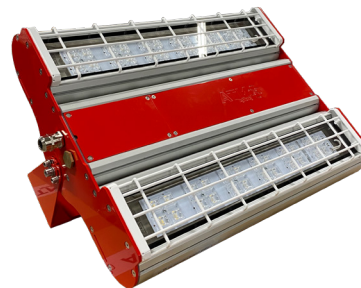
standard bracket AMO90



TYPE	L	B	H	H1	D	D1	D2	D3	Weight
EXF450LED-EY4	656	735	202	97	490	430	390	330	17 kg

ADDITIONAL EQUIPMENT

PROTECTION GRID (PRG)

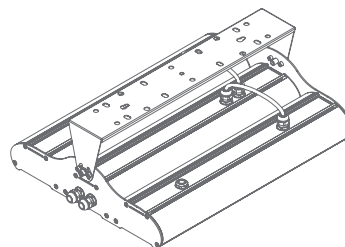
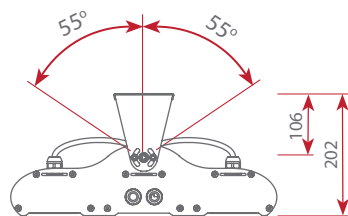


ADDITIONAL INFORMATION:
Light fitting equipped with additional grid which protects from the accidental damages.

MOUNTING

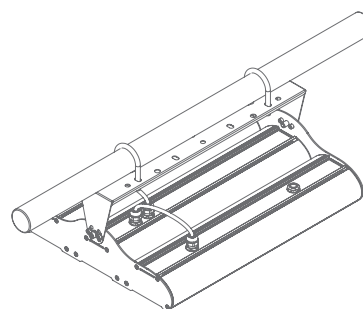
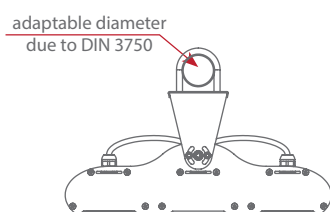
AMO90

standard



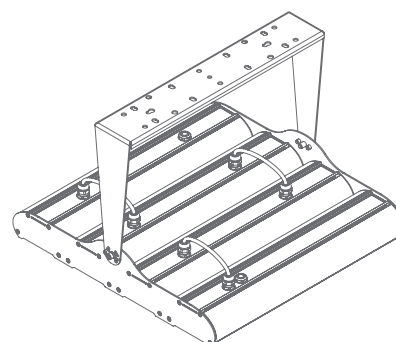
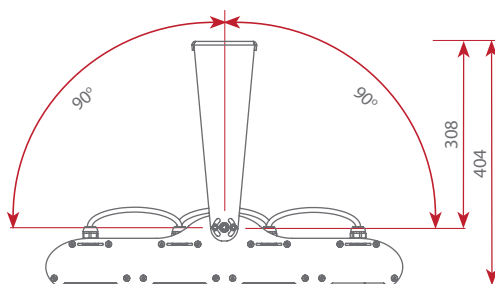
AMO360

optional



AMO180

optional



CONFIGURATIONS

EXF450LED-EY	-	-	2	4	E	-	-	-	-	ALU	GL	STD	AMO90	-	-	
group explosion-proof lighting			2	1		30	10	M	20				AMO180		3F	PRG
type type 450			3	2		50	20	P	25				AMO360			
light source LED modules			4	3		70										
LED modules type																
LED modules quantity																
version																
power supply 24E - 100÷277V, 50-60Hz																
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 housin → <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																
optics STD - standard beam																
mounting check: mountings																
additional versions 3F - version adated to work in 3-phase network - 5x2,5mm ² (L1, L2, L3, PE, N)																
additional equipment PRG - protection grid on the diffuser																


 DOWNLOADS

LDT



CE

ATEX