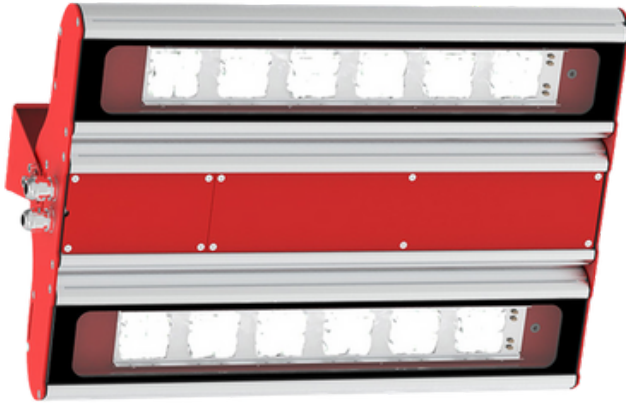




Hazardous
Lighting Solutions LTD



EXL450LED



Explosionproof floodlight with
LED modules



OFFSHORE



CHEMICAL
WAREHOUSES



CHEMICAL



REFINERIES

 II 3G Ex ec IIC T6...T4 Gc
II 2D Ex tb IIIC T80°C...T105°C Db



MECHANICAL FEATURES

- Housing:** Anodized aluminum
- Diffuser:** Hardened glass
- Ingress protection:** IP66, IP67
- Protection class:** I
- Shock resistance:** GL: IK09, PC: IK10
- Mounting:** On the bracket
- Mounting accessories:** Variable
- Optional accessories:** Protection grid, vent plugs

ELECTRICAL FEATURES

- Connection terminals:** 2,5mm² | 6,0mm²-optional
- Input voltage 24E:** 100-277 V, 50-60 Hz voltage ± 10%
- Input voltage 35E:** 230-305 V, 50-60 Hz + 230-431 V, 0 Hz voltage ± 10%
- Light source:** Intrinsically safe LED modules
- Power factor:** >0,98
- Cable inlets:** Ø20, Ø25

WORK PARAMETERS

- Ambient Temperatures:** -40°C up to +65°C
- Lifetime:** >50.000h L80 B10
>70.000h L70 B10

PHOTOMETRICAL PARAMETERS

- CRI:** >70 (>80 optionally)
- Colour temperature:** 4000K, 6500K (optional)

TYPE COMPARISONS

NB OPTICS (NARROW BEAM):

TYPE	LUMINOUS FLUX [lm]	POWER CONSUM. [W]	EFFICIENCY [lm/W]	MIN. AMB. TEMP.	MAX. AMB. TEMPERATURE 24E	35E	PC diffuser	TEMP. CLASS / MAX. SURFACE TEMPERATURE
EXL450LED-EX2-1	15200	103	148	-40°C	+65°C	+60°C	+50°C	T6 / T80°C
EXL450LED-EX2-2	21500	153	141	-40°C	+55°C	+50°C	+45°C	T5 / T80°C
EXL450LED-EX3-1	22800	155	147	-40°C	+65°C	+60°C	+50°C	T5 / T80°C
EXL450LED-EX3-2	32200	238	135	-40°C	+50°C	+45°C	+45°C	T4 / T105°C
EXL450LED-EX4-1	30300	207	146	-40°C	+55°C	+50°C	+50°C	T5 / T80°C

MB OPTICS (MEDIUM BEAM):

TYPE	LUMINOUS FLUX [lm]	POWER CONSUM. [W]	EFFICIENCY [lm/W]	MIN. AMB. TEMP.	MAX. AMB. TEMPERATURE 24E	35E	PC diffuser	TEMP. CLASS / MAX. SURFACE TEMPERATURE
EXL450LED-EX2-1	16000	103	155	-40°C	+65°C	+60°C	+50°C	T6 / T80 °C
EXL450LED-EX2-2	23000	153	150	-40°C	+55°C	+50°C	+45°C	T5 / T80 °C
EXL450LED-EX3-1	24000	155	155	-40°C	+65°C	+60°C	+50°C	T5 / T80 °C
EXL450LED-EX3-2	34000	238	143	-40°C	+50°C	+45°C	+45°C	T4 / T105 °C
EXL450LED-EX4-1	31500	207	152	-40°C	+55°C	+50°C	+50°C	T5 / T80 °C

WB OPTICS (WIDE BEAM):

TYPE	LUMINOUS FLUX [lm]	POWER CONSUM. [W]	EFFICIENCY [lm/W]	MIN. AMB. TEMP.	MAX. AMB. TEMPERATURE 24E	35E	PC diffuser	TEMP. CLASS / MAX. SURFACE TEMPERATURE
EXL450LED-EX2-1	15250	103	148	-40°C	+65°C	+60°C	+50°C	T6 / T80 °C
EXL450LED-EX2-2	21500	153	141	-40°C	+55°C	+50°C	+45°C	T5 / T80 °C
EXL450LED-EX3-1	23500	155	152	-40°C	+65°C	+60°C	+50°C	T5 / T80 °C
EXL450LED-EX3-2	33000	238	139	-40°C	+50°C	+45°C	+45°C	T4 / T105 °C
EXL450LED-EX4-1	30500	207	147	-40°C	+55°C	+50°C	+50°C	T5 / T80 °C

TYPE COMPARISONS

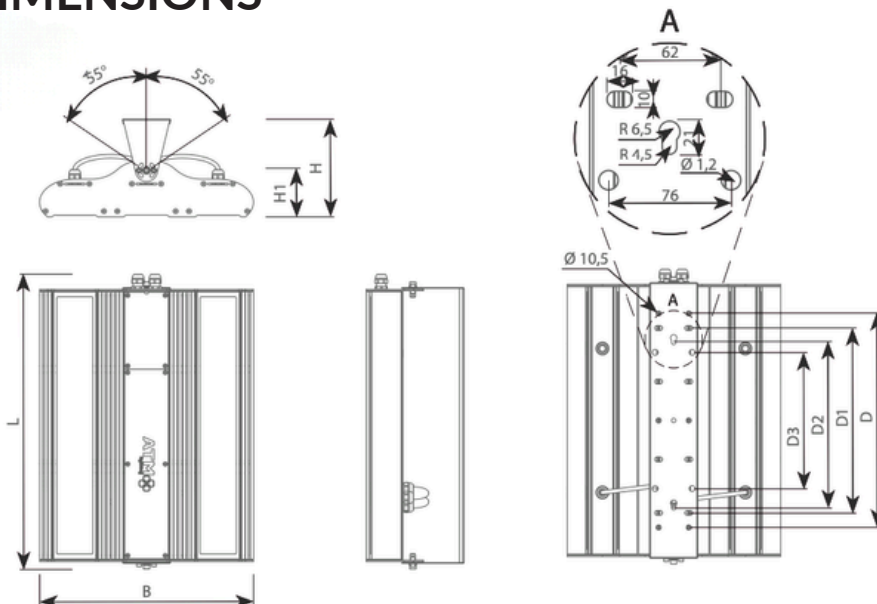
OB OPTICS (OVAL BEAM):

TYPE	LUMINOUS FLUX [lm]	POWER CONSUM. [W]	EFFICIENCY [lm/W]	MIN. AMB. TEMP.	MAX. AMB. TEMPERATURE 24E	35E	PC diffuser	TEMP. CLASS / MAX. SURFACE TEMPERATURE
EXL450LED-EX2-1	15100	103	140	-40°C	+65°C	+60°C	+50°C	T6 / T80 °C
EXL450LED-EX2-2	21500	153	141	-40°C	+55°C	+50°C	+45°C	T5 / T80 °C
EXL450LED-EX3-1	22600	155	146	-40°C	+65°C	+60°C	+50°C	T5 / T80 °C
EXL450LED-EX3-2	32200	238	135	-40°C	+50°C	+45°C	+45°C	T4 / T105 °C
EXL450LED-EX4-1	30200	207	146	-40°C	+55°C	+50°C	+50°C	T5 / T80 °C

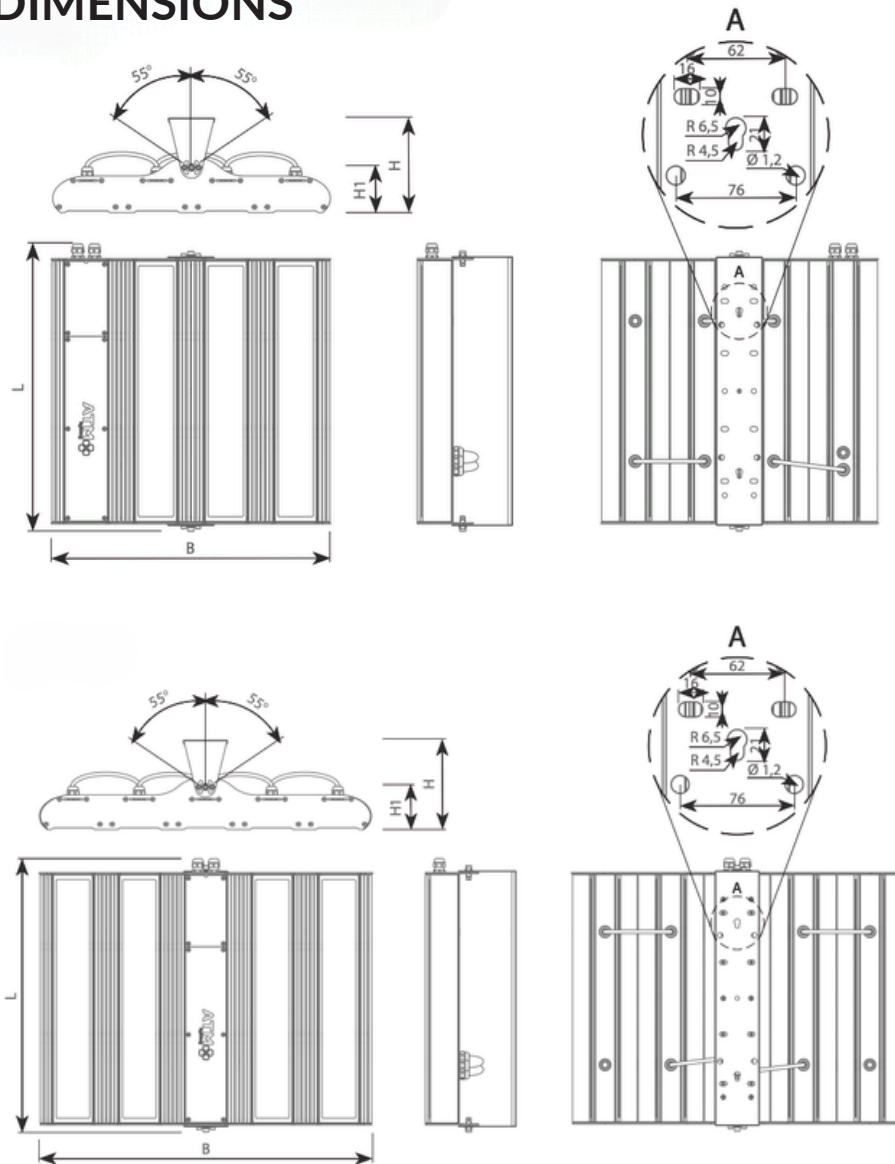
ASY OPTICS (ASYMETRICAL BEAM):

TYPE	LUMINOUS FLUX [lm]	POWER CONSUM. [W]	EFFICIENCY [lm/W]	MIN. AMB. TEMP.	MAX. AMB. TEMPERATURE E 24E	35E	PC diffuser	TEMP. CLASS / MAX. SURFACE TEMPERATURE
EXL450LED-EX2-1	14390	103	140	-40°C	+65°C	+60°C	+50°C	T6 / T80 °C
EXL450LED-EX2-2	20680	153	135	-40°C	+55°C	+50°C	+45°C	T5 / T80 °C
EXL450LED-EX3-1	21580	155	139	-40°C	+65°C	+60°C	+50°C	T5 / T80 °C
EXL450LED-EX3-2	30570	238	128	-40°C	+50°C	+45°C	+45°C	T4 / T105 °C
EXL450LED-EX4-1	28320	207	137	-40°C	+55°C	+50°C	+50°C	T5 / T80 °C

DIMENSIONS



DIMENSIONS

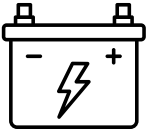


TYPE	L	B	H	H1	D	D1	D2	D3	Weight [kg]
EXL450LED-EX2	606	435	202	97	440	380	340	280	10
EXL450LED-EX3	606	585	202	97	440	380	340	280	13
EXL450LED-EX4	606	735	202	97	440	380	340	280	16

OPTIONAL VERSIONS



DALI-2 DRIVER: VERSION EQUIPPED WITH DALI 2 DRIVER



CENTRAL BATTERY: VERSION WITH A DRIVER FOR CENTRAL BATTERY

3H

3-PHASE POWER SUPPLY: OPTIONAL VERSION ADAPTED TO 3-PHASE POWER SUPPLY

MAXIMAL NUMBER OF LUMINAIRES CONNECTED IN LINE

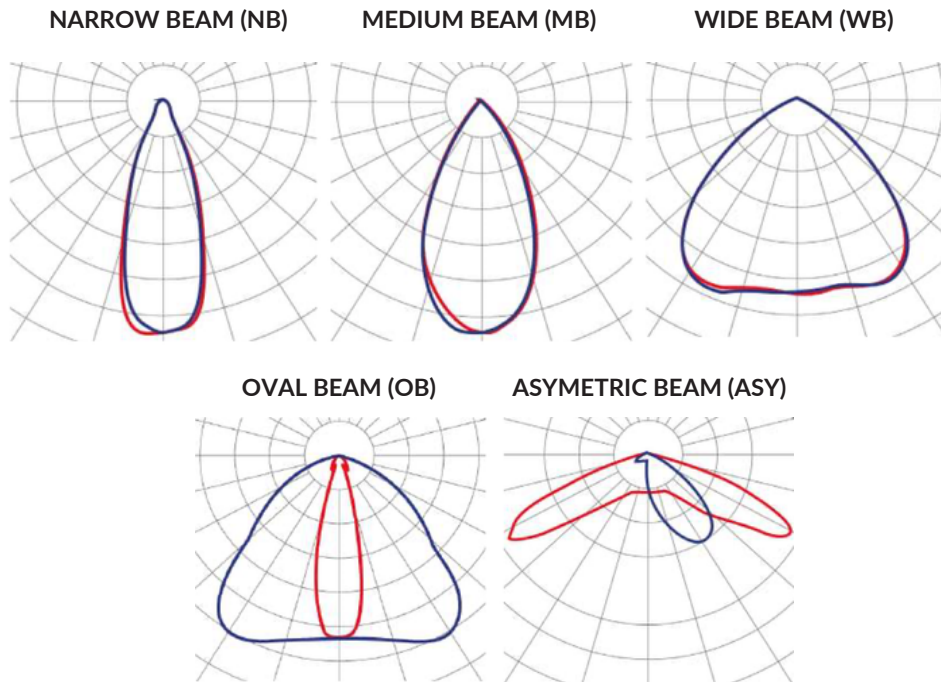
POWER SUPPLY 24E

Type	B16	C16	Max. starting current	Starting time
EXL450LED-EX2-1	6	11	112A	<140µs
EXL450LED-EX2-2	3	6	177A	<140µs
EXL450LED-EX3-1	3	6	177A	<140µs
EXL450LED-EX3-2	4	7	171A	<140µs
EXL450LED-EX4-1	4	7	171A	<140µs

POWER SUPPLY 35E

Type	B16	C16	Max. starting current	Starting time
EXL450LED-EX2-1	3	6	40A	<760µs
EXL450LED-EX2-2	3	6	65A	<485µs
EXL450LED-EX3-1	3	6	65A	<485µs
EXL450LED-EX3-2	2	4	75A	<450µs
EXL450LED-EX4-1	2	4	65A	<680µs

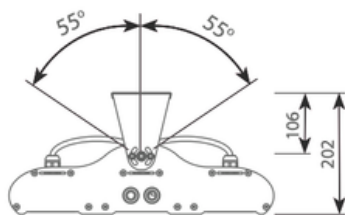
PHOTOMETRY



MOUNTINGS

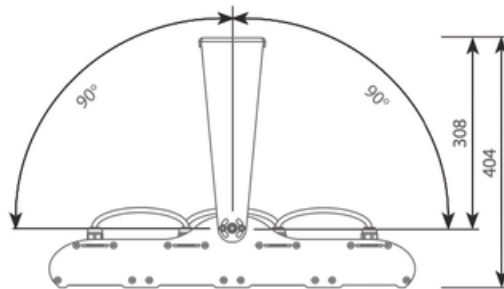
AMO90

standard



AMO180

optional



AMO360

optional

adaptable diameter
due to DIN 3750

