

ZONE 1, 21 & 2, 22



Petroleum refineries



Chemical and petrochemical facilities



Anti-light pollution



Offshore facilities



Onshore facilities



Perimeter zone lighting



Petroleum loading/unloading pontoons

MECHANICAL FEATURES

- Body:** Aluminium alloy with low copper content. With cooling fins for high levels of heat dissipation
- Front glass:** Tempered glass, resistant to high temperatures and impacts
- Seals:** Silicone resistant to acids, hydrocarbons and high temperatures
- Fastening bracket:** Galvanized steel
- Screws:** Stainless steel
- Entry points:** 1xØ20 entry point. Fixture complete with a NAV20SIB cable gland
- Coating:** Polyester RAL 7035 (Light grey)
- Corrosion resistant:** The standard of the aluminium alloy used has passed the tests required by the Standard EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)

FIXTURE IN DETAIL

Aluminium alloy lighting fixture lid painted in RAL7035 light grey

Internally they house:
L, N, PE connection terminals, Max. 4sqmm cross-section.

Resin electronic power unit in accordance with
EN/IEC 60079-0 and EN/IEC 60079-18



Tempered glass, resistant to impacts and high temperatures, sealed in the aluminium body

Aluminium alloy lighting fixture body painted in RAL7035 light grey

CERTIFICATE DATA

- Classification:** Group II, category 2GD/3G
- Installation:** Zone 1, 21, 2, 22 (GlowEx-Z1), Zone 21, 2, 22 (GlowEx-Z1)
- Certificate:** ATEX CML 21 ATEX 4607X(GlowEx-Z1),
ATEX CML 21 ATEX 3610X(GlowEx-Z2)
IEC Ex CML 21.0070X, UKEX available

- Degree of protection:** IP66
- Temperature class:** Please see 'selection table' for all permitted ambient temperature classes
- Ambient temperature:** -60C to +60C (please see 'selection table' for all permitted ambient temperature ranges)
- Ex Markings:** GlowEx-Z1
GlowEx-Z2

CE 0722 Ex II 2GD - Ex db eb mb IIC T.. Gb - Ex tb IIIC T..°C Db - IP66

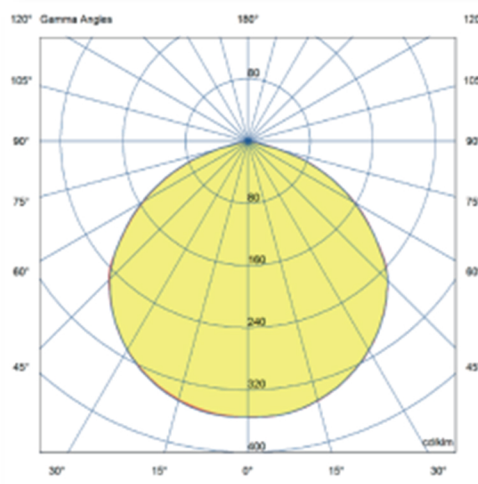
CE Ex II 3G - Ex nR IIC T.. Gc
CE 0722 Ex II 2D - Ex tb IIIC T..°C Db - IP66

ELECTRICAL FEATURES

	GlowEx-..060..	GlowEx-..080..	GlowEx-..100..
-Supply voltage:	100-277 Vac	100-277 Vac	100-277 Vac
-Rated frequency:	50-60Hz +5% ..030 30W ..040 40 W ..050 50 W	50-60Hz +5% ..70 70W ..080 80 W ..090 90 W	50-60Hz +5% ..120 120 W ..140 140 W ..160 160 W
-Rated power consumption*:	..060 60W - -	..100 100 W - -	..180 180 W ..200 200 W ..220 220 W
-THD (Total Harmonic Distortion):		<10%	
-Over-voltage protection:	4kV	4kV	4kV
-Driver performance levels:	over-voltage protection, over-current protection, short circuit protection		
-Dimming (request only for Z2): (0-10 V) or PWM or resistor	(0-10 V) or PWM or resistor	(0-10 V) or PWM or resistor	(0-10 V) or PWM or resistor

PHOTOMETRIC FEATURES	GlowEx-..060..	GlowEx-..080..	GlowEx-..100..
-Multiple LED:	High power LED	High power LED	High power LED
-Viewing angle:	120°	120°	120°
-Colour temperature:	5000K	5000K	5000K
-CRI:	>70	>70	>70
-Instant restrike:	YES	YES	YES
-L90:	>60000h	>60000h	>60000h




PHOTOMETRY



ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

- Different rated voltages
- Dimming only in the ..- Z2 version (code example GLOWEX-Z2-100180-D)
- Lighting fixture with dimming and different holes for cable entry:
 - GLOWEX-Z2-080080-DB N°2 entries Ø20
 - GLOWEX-Z2-080080-DC N°1 entry Ø25
 - GLOWEX-Z2-080080-DF N°2 entries Ø25
- Additional U-bolts for assembly to a pole
- Eye bolt
- Special lid for direct installation on pole (code example GLOWEX-Z1-080080-T)
- Threaded pole attachment with fixed 25° orientation
- Fastening brackets in stainless steel AISI 304 or AISI 3016L
- Unpainted lighting fixtures for shorter lead times
(code example: GLOWEX-Z2-080080-DB-NP, GLOWEX-Z1-080080-T-NP)

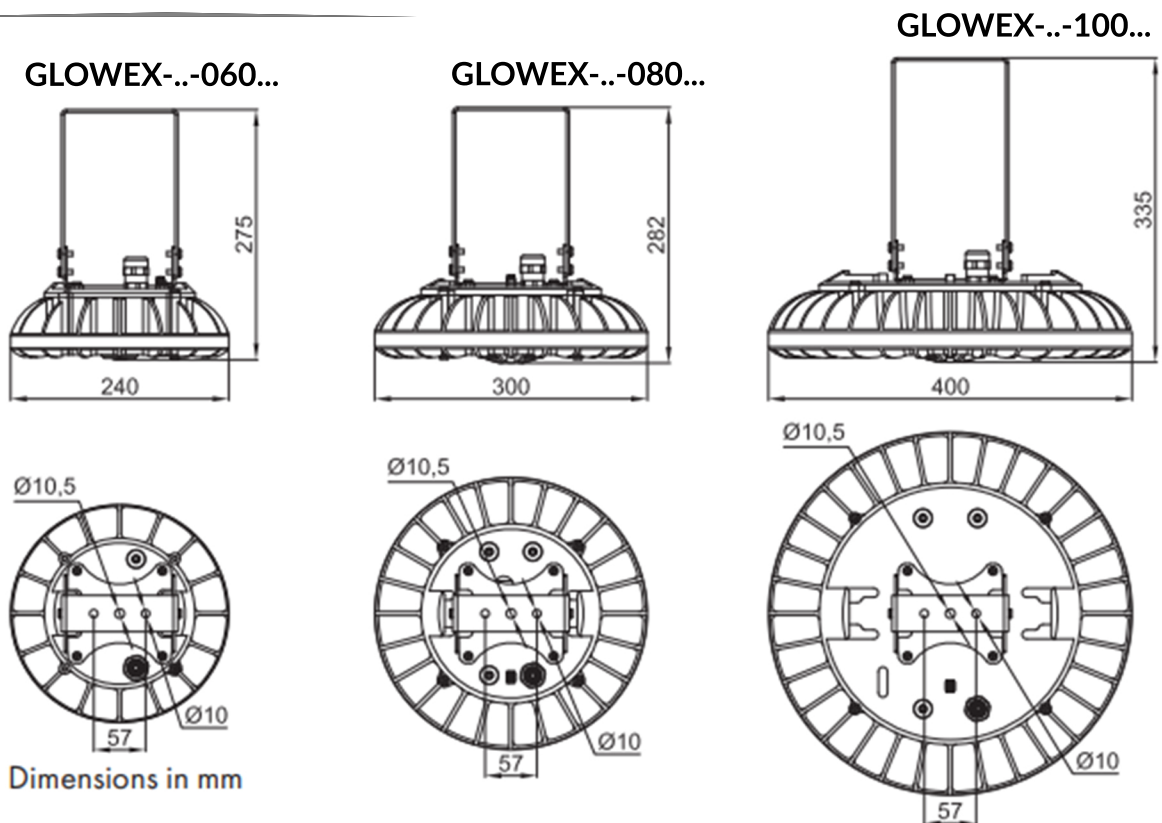
ACCESSORIES

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES
	Electronic power unit	GLOWEX-Z1-060030	100-277 Vac
		GLOWEX-Z1-060040	
		GLOWEX-Z1-060050	
		GLOWEX-Z1-060060	
		GLOWEX-Z1-080070	
		GLOWEX-Z1-080080	
		GLOWEX-Z1-080090	
		GLOWEX-Z1-080100	
		GLOWEX-Z1-100120	
		GLOWEX-Z1-100140	
		GLOWEX -Z1-100160	
		GLOWEX-Z1-100180	
		GLOWEX-Z1-100200	
		GLOWEX-Z1-100220	
	Electronic power unit	GLOWEX-Z2-060030	100-277 Vac
		GLOWEX-Z2-060040	
		GLOWEX-Z2-060050	
		GLOWEX-Z2-060060	
		GLOWEX-Z2-080070	
		GLOWEX-Z2-080080	
		GLOWEX-Z2-080090	
		GLOWEX-Z2-080100	
		GLOWEX-Z2-100120	
		GLOWEX-Z2-100140	
		GLOWEX-Z2-100160	
		GLOWEX-Z2-100180	
		GLOWEX-Z2-100200	
		GLOWEX-Z2-100220	
	U-bolt for assembly on a pole	for poles Ø1 1/2"	Material: stainless steel AISI 316L




	<p>Adjustable pole fixing bracket for Ø1 1/2" poles</p>	GLOWEX-...060.. GLOWEX-...080..	Galvanized steel
		GLOWEX-...100..	
		GLOWEX-...060.. GLOWEX-...080..	Stainless steel AISI 304
		GLOWEX-...100..	
		GLOWEX-...060.. GLOWEX-...080..	Stainless steel AISI 316L
		GLOWEX-...100..	
	<p>Fastening bracket</p>	GLOWEX-...060.. GLOWEX-...080..	Stainless steel AISI 304
		GLOWEX-...060.. GLOWEX-...080..	Stainless steel AISI 316L
		GLOWEX-...100..	Stainless steel AISI 304
			Stainless steel AISI 316L

DIMENSIONAL DRAWINGS



GLOWEX SERIES SELECTION TABLE

Code	Real power Watt	Rated power Watt	Temperature class / Maximum surface temperature				Lumen lm	Light intensity cd	Overall efficiency Lm/W	Weight kg	 mm	
			TA=+40°C	TA=+50°C	TA=+55°C	TA=+60°C						
Zone 1, 2, 21, 22	GLOWEX-Z1-060030	32,8	30	T6 / 73°C	T5 / 83°C	T5 / 88°C	T5 / 93°C	4785	1700	146	3,2	285x245x135
	GLOWEX-Z1-060040	38,8	40	T6 / 73°C	T5 / 83°C	T5 / 88°C	T5 / 93°C	5531	1966	143	3,2	285x245x135
	GLOWEX-Z1-060050	46,7	50	T6 / 73°C	T5 / 83°C	T5 / 88°C	T5 / 93°C	6389	2273	137	3,2	285x245x135
	GLOWEX-Z1-060060	55,6	60	T6 / 73°C	T5 / 83°C	T5 / 88°C	T5 / 93°C	7285	2592	131	3,2	285x245x135
	GLOWEX-Z1-080070	69,1	70	T5 / 86°C	T4 / 96°C	T4 / 101°C	T4 / 106°C	9547	3438	138	4,2	305x305x140
	GLOWEX-Z1-080080	79,4	80	T5 / 86°C	T4 / 96°C	T4 / 101°C	T4 / 106°C	10646	3834	134	4,2	305x305x140
	GLOWEX-Z1-080090	89,2	90	T5 / 86°C	T4 / 96°C	T4 / 101°C	T4 / 106°C	11641	4197	129	4,2	305x305x140
	GLOWEX-Z1-080100	101,7	100	T5 / 86°C	T4 / 96°C	T4 / 101°C	T4 / 106°C	12708	4582	125	4,2	305x305x140
	GLOWEX-Z1-100120	117,0	120	T6 / 74°C	T5 / 84°C	T5 / 89°C	T5 / 94°C	17687	6221	151	7,8	405x405x145
	GLOWEX-Z1-100140	136,5	140	T6 / 74°C	T5 / 84°C	T5 / 89°C	T5 / 94°C	20154	7086	148	7,8	405x405x145
	GLOWEX-Z1-100160	156,6	160	T6 / 74°C	T5 / 84°C	T5 / 89°C	T5 / 94°C	22422	7882	143	7,8	405x405x145
	GLOWEX-Z1-100180	173,6	180	T5 / 85°C	T5 / 95°C	T4 / 100°C	T4 / 105°C	24218	8513	140	7,8	405x405x145
GLOWEX-Z1-100200	190,1	200	T5 / 85°C	T5 / 95°C	T4 / 100°C	T4 / 105°C	25709	9040	135	7,8	405x405x145	
GLOWEX-Z1-100220	214,2	220	T5 / 85°C	T5 / 95°C	T4 / 100°C	T4 / 105°C	27961	9837	131	7,8	405x405x145	
Zone 2, 21, 22	GLOWEX-Z2-060030	32,8	30	T6 / 73°C	T5 / 83°C	T5 / 88°C	T5 / 93°C	4784	1700	146	3,2	285x245x135
	GLOWEX-Z2-060040	38,8	40	T6 / 73°C	T5 / 83°C	T5 / 88°C	T5 / 93°C	5531	1966	143	3,2	285x245x135
	GLOWEX-Z2-060050	46,7	50	T6 / 73°C	T5 / 83°C	T5 / 88°C	T5 / 93°C	6389	2273	137	3,2	285x245x135
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