

The GEN 3 ALED is the latest development of our highly efficient, lightweight Area Floodlight luminaire boasting class leading light outputs and efficacy.

Certified for use in Zones 1, 21, & 2, 22 this is a modern and versatile luminaire. The high-quality, corrosion resistant, marine grade aluminium body gives excellent durability even in harsh marine applications. The GEN 3 LED light engine provides worry-free, long service life with no maintenance burden. All products in the range are offered with a 5-year warranty.

- ✓ Zero maintenance LED light source
- ✓ Industry leading performance in terms of lumen per watt efficacy
- ✓ Rated to IK10 (polycarbonate lens)
- ✓ High quality corrosion resistant aluminium body
- ✓ Durable construction
- ✓ Long service life with 5-year warranty
- ✓ Virtually maintenance free
- ✓ Stainless Steel swivel mounting bracket and hardware
- ✓ Lightweight and easy to install and use
- ✓ Toughened and tempered glass lens option
- ✓ Chemical and abrasion resistant polycarbonate lens option



Specifications & Options

Label Marking Zone 1/21	II 2G Ex eb mb IIC T4 Gb II 2D Ex tb IIIC T135°C Db	Certificates Zone 1/21	CML 17ATEX3027X CML 21UKEX31015X IECEX CML 17.0018X
Label Marking Zone 2/22	II 3G Ex ec mc IIC T4/T5 Gc II 3D Ex tc IIIC T135/100°C Dc Ta +55°C = T4 / Ta +49°C = T5	Certificates Zone 2/22	CML 17ATEX3036X CML 21UKEX31016X IECEX CML 17.0018X
Zoned Area	Zone 1,21, & 2,22	IP Rating	IP66 & IP67
Ambient Temp Range	-40°C to +55°C Z1/21 -40°C to +55°C Z2/22 Ta max +55°C -40°C to +49°C Z2/22 Ta max +49°C	IK Rating	IK8+ Glass Lens IK10 Polycarbonate Lens
Material	Marine grade aluminium with tempered glass lens or polycarbonate lens option (Stainless hardware)		
Cable Entries / Connection	2 x M20 as standard (M25 option available or order), up to 4mm ² single or multi stranded conductor		
Light Source	High efficacy, long-life, maintenance free, bespoke array with premium LEDs		
CCT (°K)	4000K Zone 2/22 / 4750K Zone 1/21		
CRI	80+ (Zone 1/21 may reach 90, however 85+ is reported)		
Luminaire Output (lm)	Up to 13,500 (Zone 2/22 Glass) (See Ordering Information chart for all options)		
SDCM Colour Consistency	3-step MacAdam ellipse		
L70/B50 Lifetime	>140,000 hours (>15 years continuous use)		
Input Voltage / Frequency	230VAC (+/-10%), 50-60Hz		
Inrush Current	Cold start 50A (twidth=250µs, measured at 50% Ipeak) at 230VAC		
Installation / Mounting	SS316 Swivel stirrup bracket (No limitations to mounting orientation. Indoor and outdoor suitable)		
Control Gear / Driver	Petrel Ex mb/mc integral driver with over temperature protection (>50k hrs expected life)		
Total Circuit Power	86 watt max		
Weight (kg)	8		

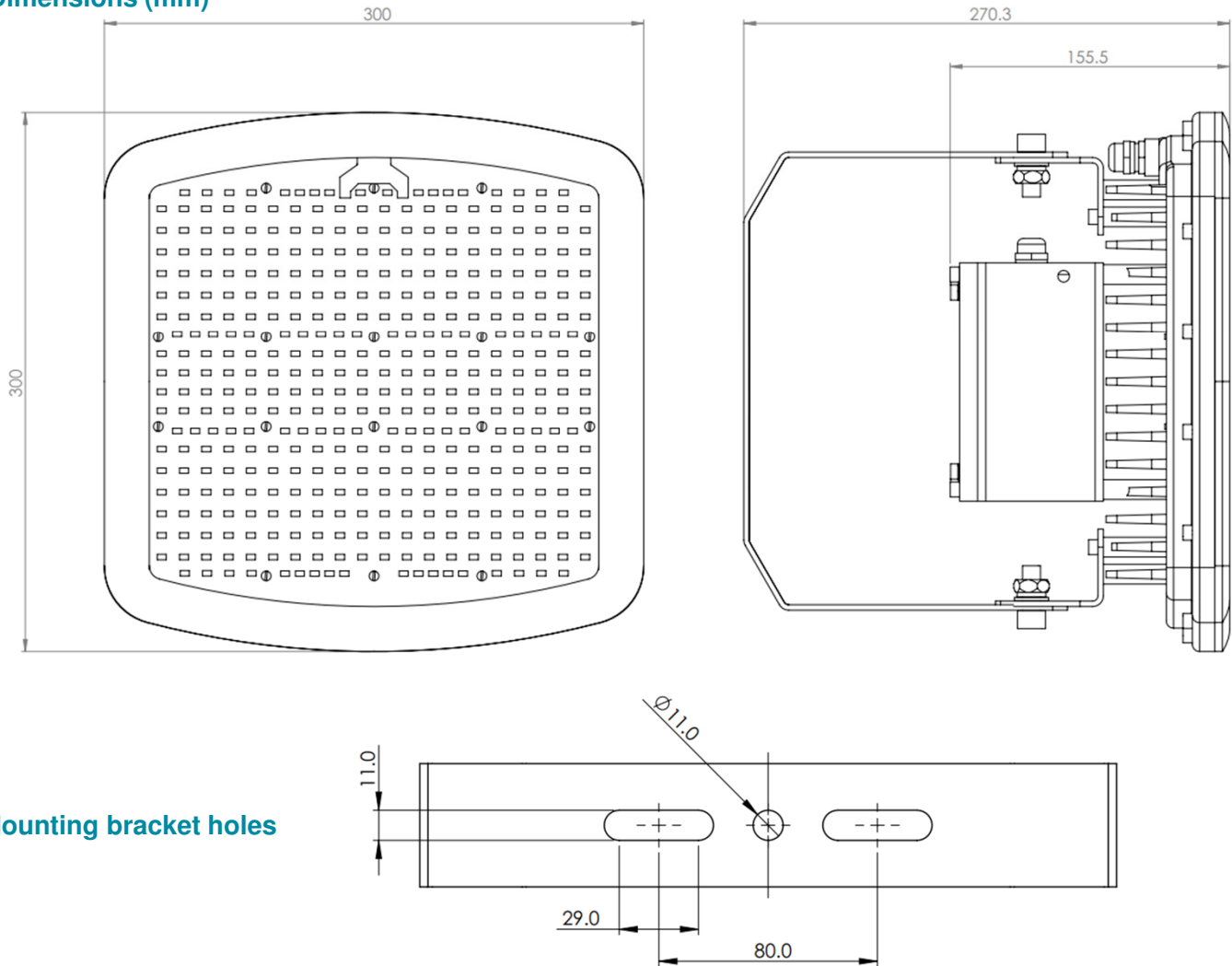
Circuit Breaker Selection / Loading Guide



Number of luminaires per single pole circuit Breaker				
Type	10A	16A	20A	25A
B	6	9	11	14
C	9	15	18	23

Guide based on 230 VAC supply. Mains impedance and circuit conditions will affect actual results. For multi-pole CBs, the maximum number is reduced by 20%.
Follow good practice for breaker loading for continuous use (<80%). The maximum number may differ between CB manufacturers. Please consult with the manufacturer.
CBs with a C rating are recommended for LED lighting.

Dimensions (mm)



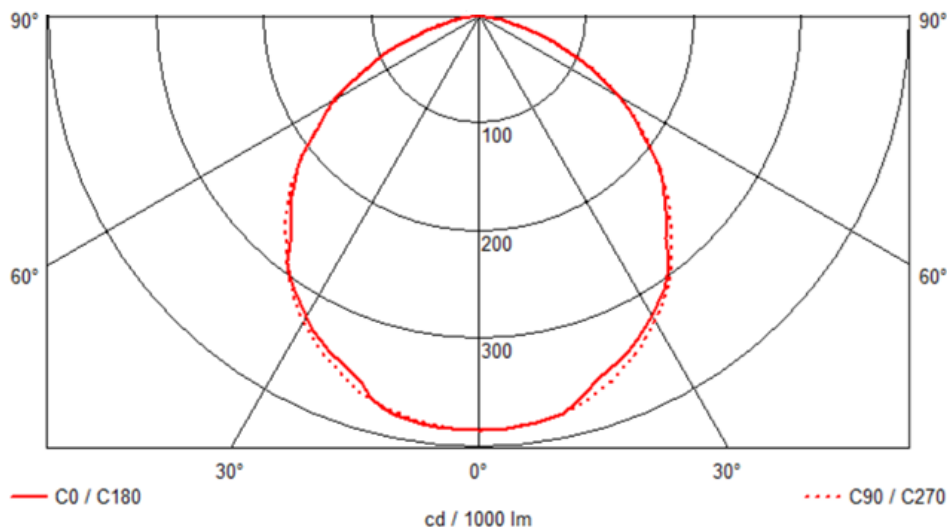
Mounting bracket holes

Ordering Information

Part Number	Zone 1/21	Zone 2/22	Front Lens	Power (W)	Light Output (lm)	Efficacy (lm/W)	CCT (°K)	CRI
ALED3/G/3Z1/086E	✓		Glass	86	11,500	134	4750	85+
ALED3/P/3Z1/086E	✓		Polycarbonate	86	11,000	128	4750	85+
ALED3/G/3Z2/086E		✓	Glass lens	86	14,000	163	4000	80+
ALED3/P/3Z2/086E		✓	Polycarbonate	86	13,000	151	4000	80+

Optical Information Guide – Glass Zone 2

Polar plot

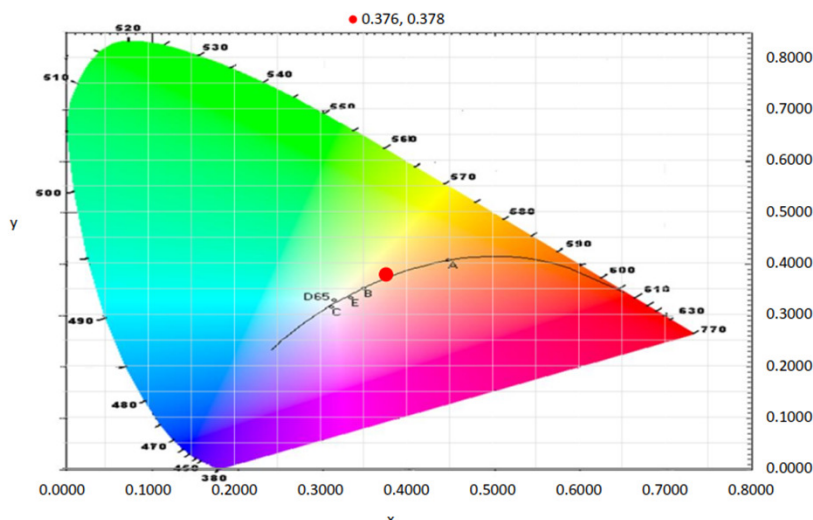
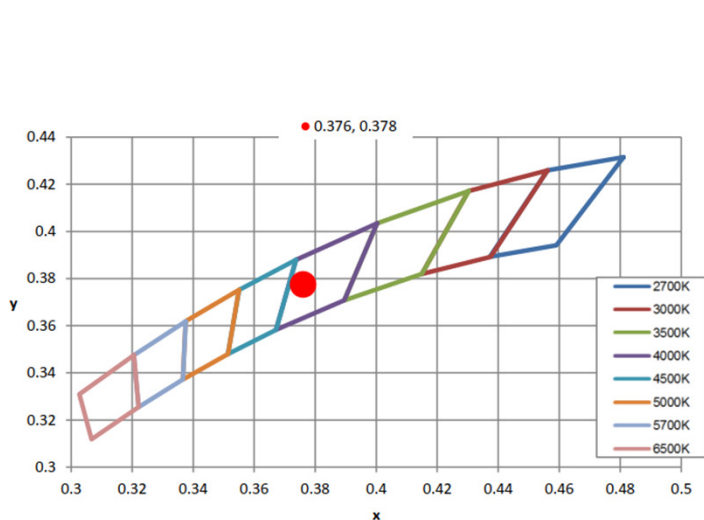


Beam Angle & Intensities

Beam Angle	Horizontal	107°
	Vertical	108°
On-axis Intensity		5098 cd
Peak Intensity		5103 cd
Peak Direction	Horizontal	45°
	Vertical	3°

Mounting Height (m)	Beam Width (m)		Projected Illuminance (lux)
	C0-C180 plane	C90-270 plane	
0.5	1.4	1.4	20390
1	2.7	2.8	5098
2	5.4	5.5	1274
3	8.1	8.3	566
4	10.8	11.0	319
5	13.6	13.8	204
7.5	20.3	20.7	91
10	27.1	27.6	51
20	54.2	55.2	13

Colorimetric Details: 4000°K, 80 CRI



Colour Rendering Index Detail

R1	80	R8	64
R2	87	R9	3
R3	93	R10	69
R4	81	R11	79
R5	79	R12	54
R6	82	R13	81
R7	86	R14	96



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