

Skipsutstyr A/S

POLARLIGHT marine lighting systems



CE

POLARLIGHT LFL-SERIES

THE NEW GENERATION LED MARINE FLOODLIGHTS

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The new range of Polarlight LED marine floodlights are pushing boundaries in terms of marine lighting, Designed and manufactured in Norway by Skipsutstyr A/S these lights are developed to withstand the harshest environment at sea and to provide cost effective lighting solutions, reduced CAPEX/OPEX and increased durability through the ships whole life cycle.

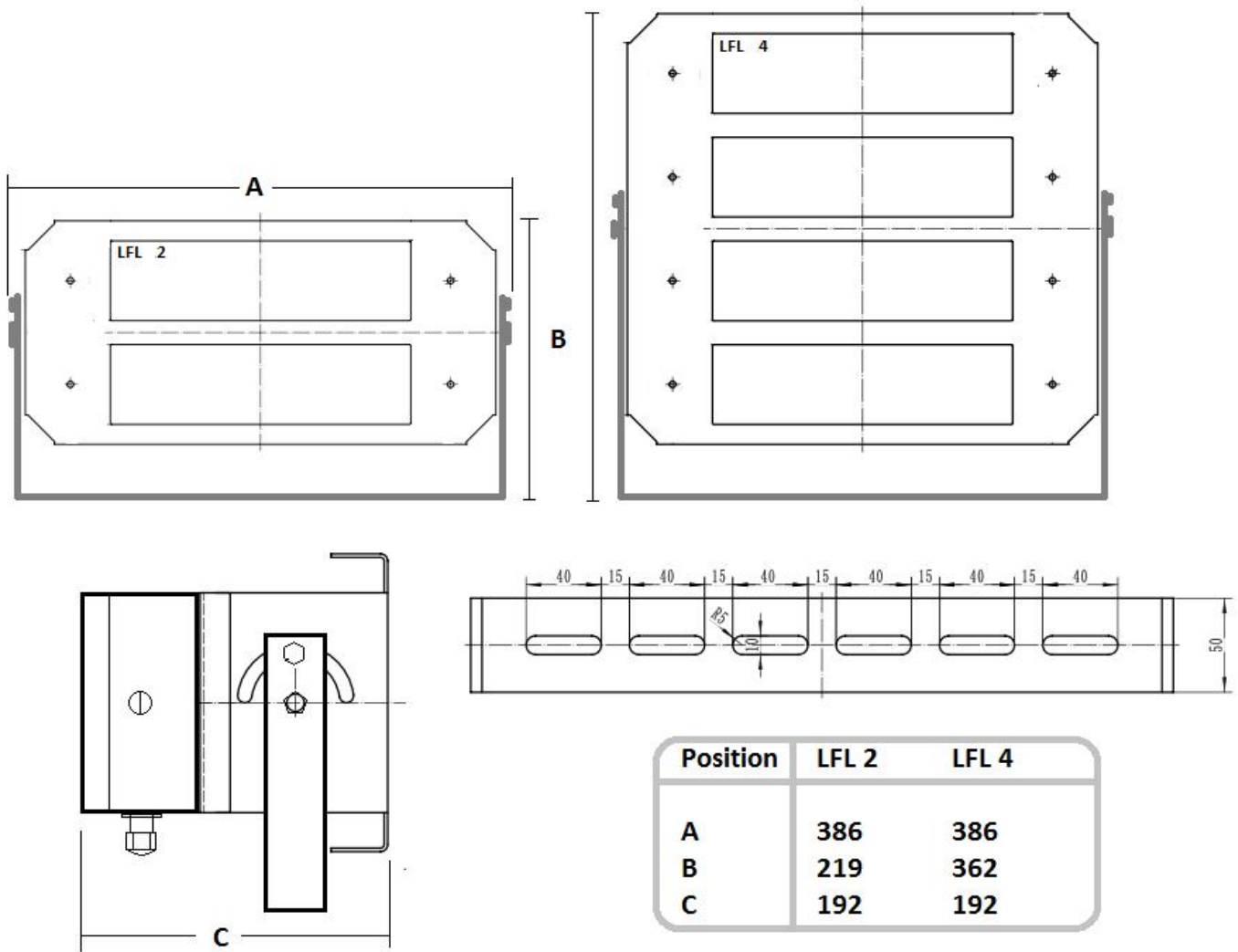
The LFL serie is manufactured with housing and bracket from AISI 316, acid proof stainless steel, white coated finish and includes replaceable LED modules powered from dimmable LED drivers through 3 different dimming standards allowing the lights to be controlled from a central light management system (HMI) thus providing the yards and the shipowners with unique opportunities to control different zones onboard independently to different levels of illumination.

The LFL-series are based on a module principle design, which means that the complete floodlight consist of several separate components assembled together to one unit. This allows for cost efficient replacement of component independently in case of damage and ensure a lifetime as long as the ship itself.

Features:

- Housing and bracket manufactured of Stainless Steel AISI 316
- LED modules has a corrosion class C5-M
- Very low weight
- Module based, all parts are replacable independently
- Flicker free
- All versions are dimmable
- Narrow or wide beam versions 25°/40°/60°/90°
- For 24 VDC or 230 VAC main power
- Very high lumen /watt raito
- High lumen output
- Excellent EMC characteristics, no disturbance to other equipment
- Easy to fit
- Maintenance free
- Designed and manufactured in Norway

Technical measurements:



Technical specifications:

Electrical specifications:

	LFL 2	LFL 4
Rated power:	120 Watt	240 Watt
Current draw (230V)	0,52 A	1,04 A
Frequency range:	47-63 Hz	47-63 Hz
Input voltage range:	100-277 VAC	100-277 VAC
Leakage current:	<0,75 mA at 277VAC/50 Hz	<0,75 mA at 277VAC/50 Hz
Dim control options:	0-100 kΩ / 0-10 VDC / PWM	0-100 kΩ / 0-10 VDC / PWM
Dim range	10-100%	10-100%

Optional version for 24 VDC is 90W (LFL 2) and 180W (LFL 4)

Light specifications:

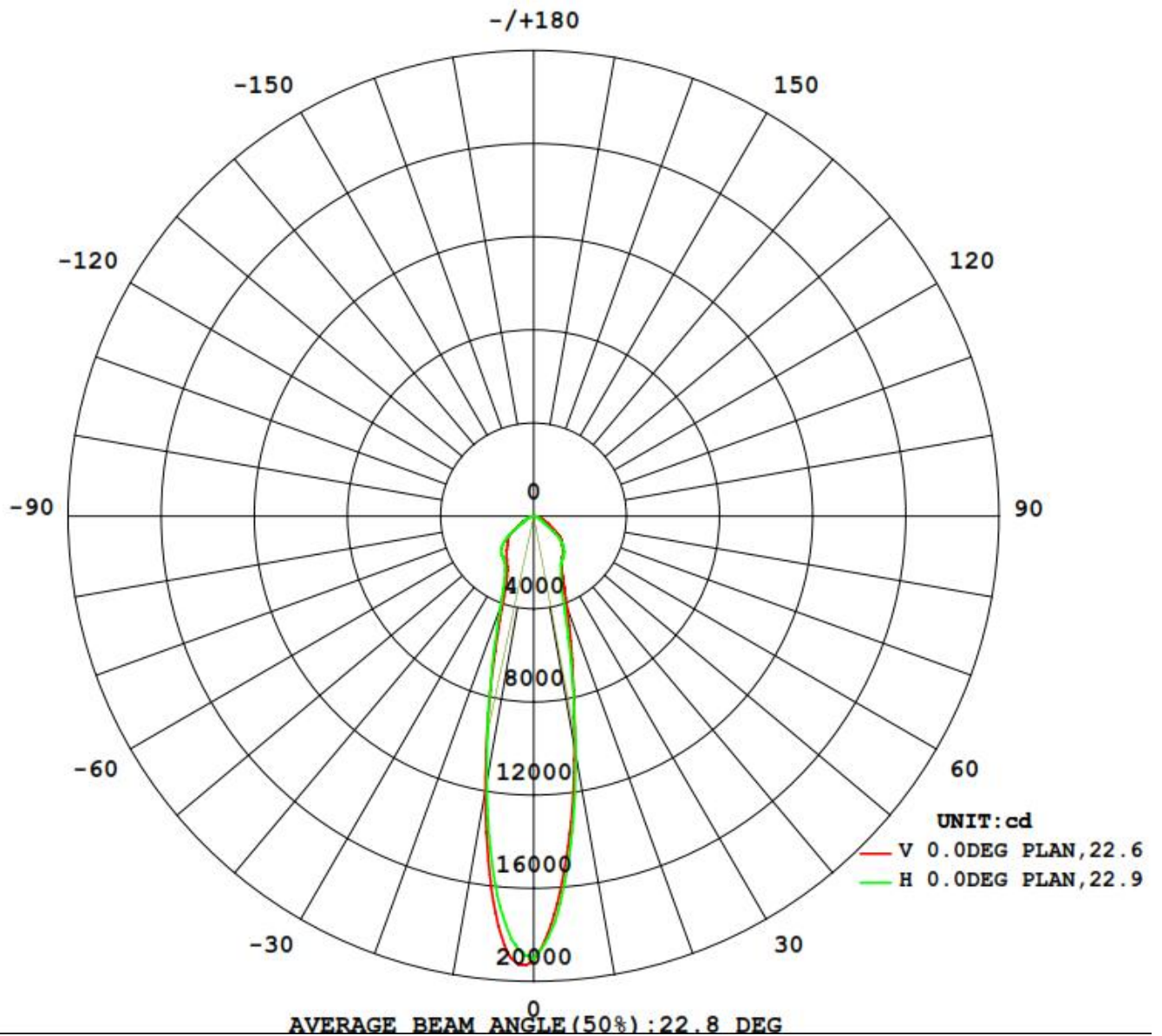
	LFL 2	LFL 4
Initial luminous flux@ Ta 25°C	18454 lm	36908 lm
Lumen per watt	154	154
Color rendering index (CRI)	> 70	> 70
Color temperature	5000 K	5000 K
Spread angles (degrees)	25° / 40° / 60° / 90° (narrow / wide)	25° / 40° / 60° / 90° (narrow / wide)

General specifications:

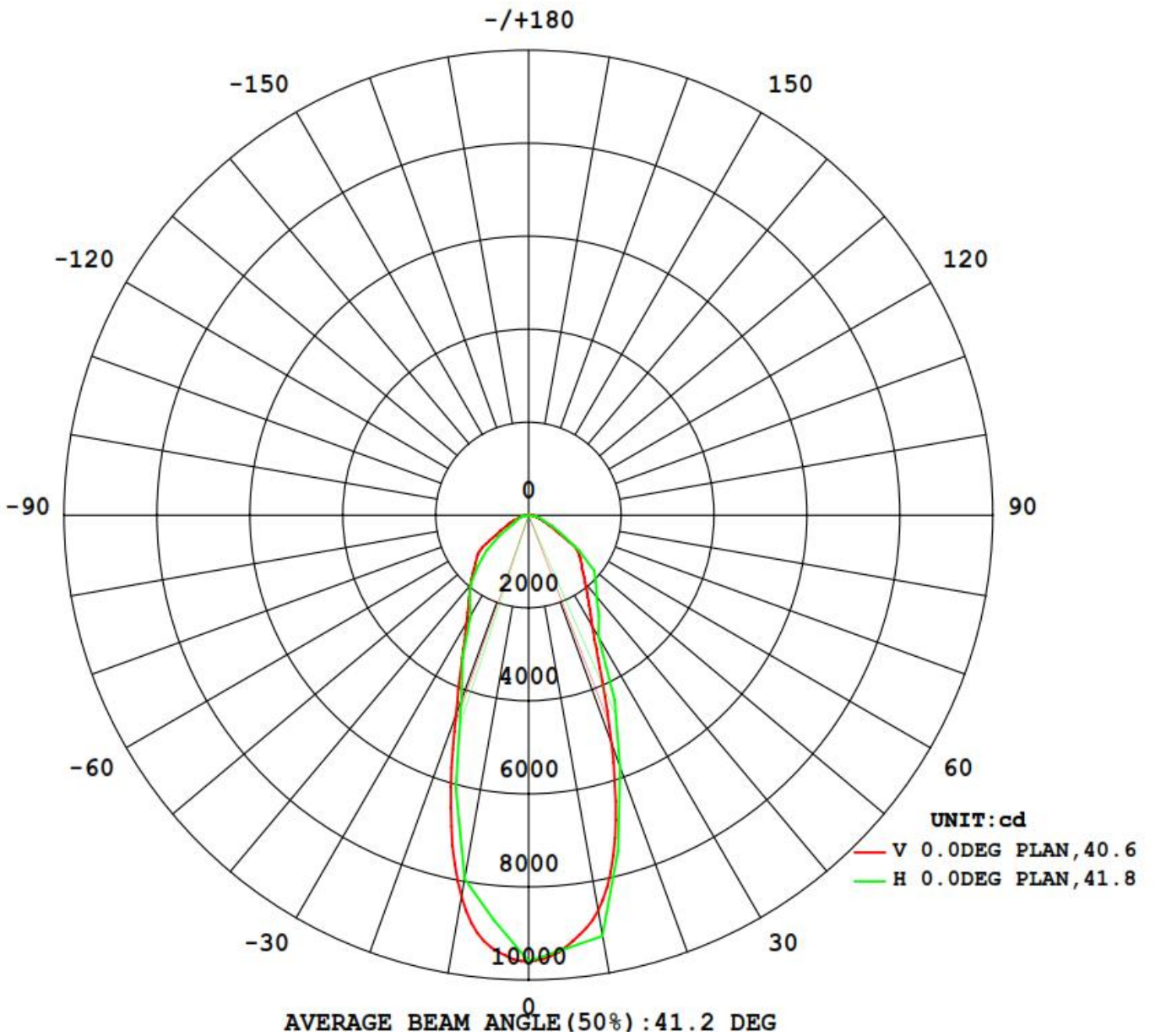
	LFL 2	LFL 4
Operating ambient temperature	-40°C to +55°C	-40°C to +55°C
Weight	7,2 kg	10,7 kg
Protection class	IP 66/67	IP 66/67
Startup time	1 sec.	1 sec.
MTBF	200 000 hrs	200 000 hrs
Cable penetration	2 x M20 (6-13mm)	2 x M20 (6-13mm)
Housing material	AISI 316L	AISI 316L
Bracket	AISI 316L	AISI 316L
Lenses material	Casted, anodized aluminium	Casted, anodized, aluminium
Paint finish	Powder coated white C5-M	Powder coated white C5-M

Light distribution diagrams (diagram show single module):

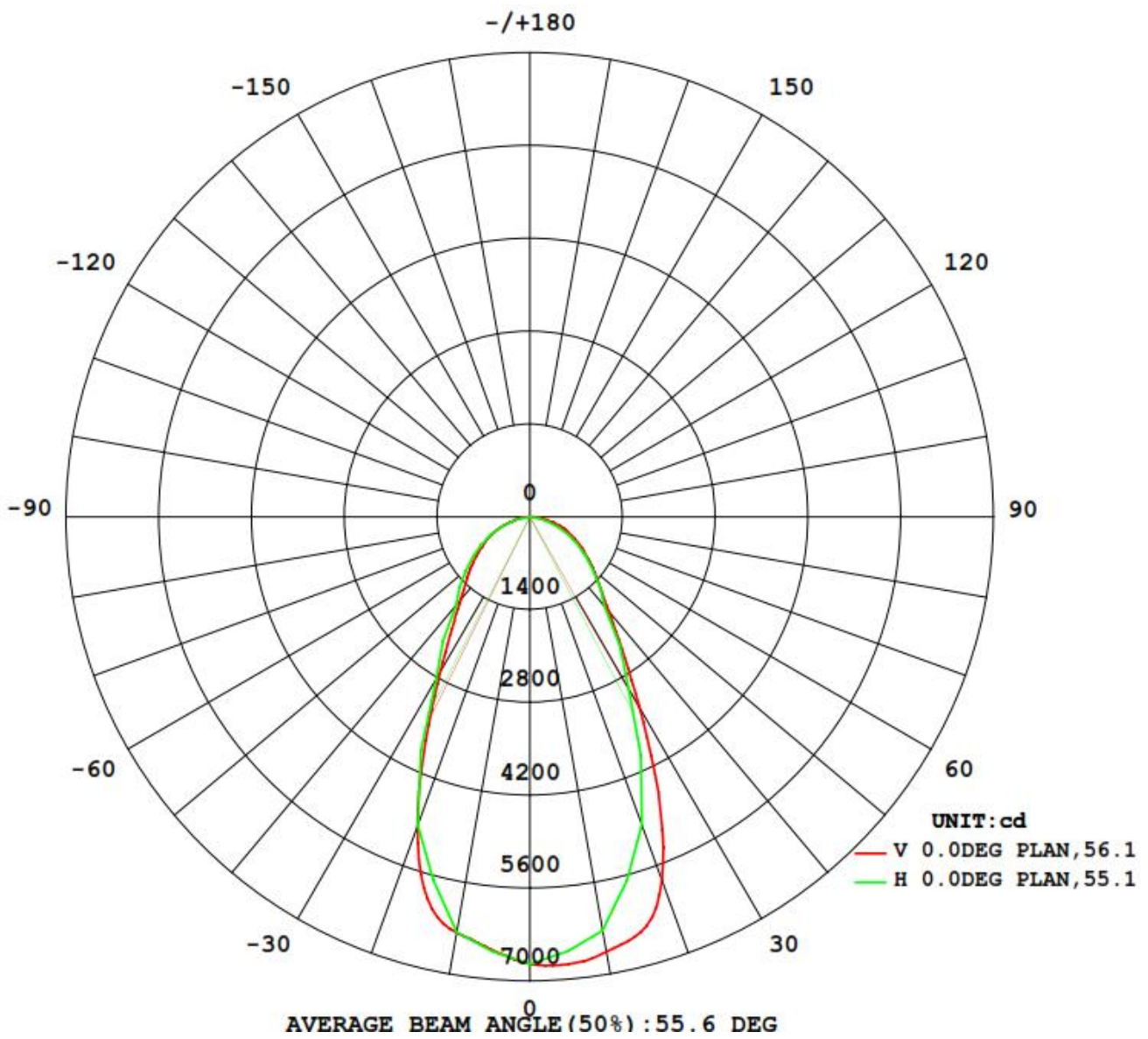
Narrow beam 25°



Medium beam 40°



Wide beam 60°



Extra wide beam 90°

