



## VLS-46 Ultra

21 - 25NM by night @ 0.74T  
3.9 - 6.2NM by day @ 0.74T

The VLS-46 Ultra is ideal for harbours with narrow or difficult approaches. The modular design allows up to seven projectors to be placed side by side. This can be used to create unique sector angles, flash patterns and intensities.

The VLS-46 Ultra has been designed to take advantage of the latest LED technology. The key features include:

- Peak intensity up to 169000cd
- 1 minute of arc boundary precision when viewed from 5,000 metres
- Large vertical divergence for visibility by all types of vessels
- Only one tower is required, compared with range lights. This reduces the installation and maintenance cost by half
- Sectors are adjustable. Each projector can be individually adjusted to the width required for the application, within the limits defined in this brochure and product manual
- Energy-efficient LED technology is ideal for solar-powered sites
- Maintenance-free design (no moving parts) will save money and time
- Lightweight marine-grade aluminium construction makes the unit light and easy to handle. For example, three 5° projectors including mounting plate weigh approximately 21.8kg



## Optical Performance

### Maximum peak intensity

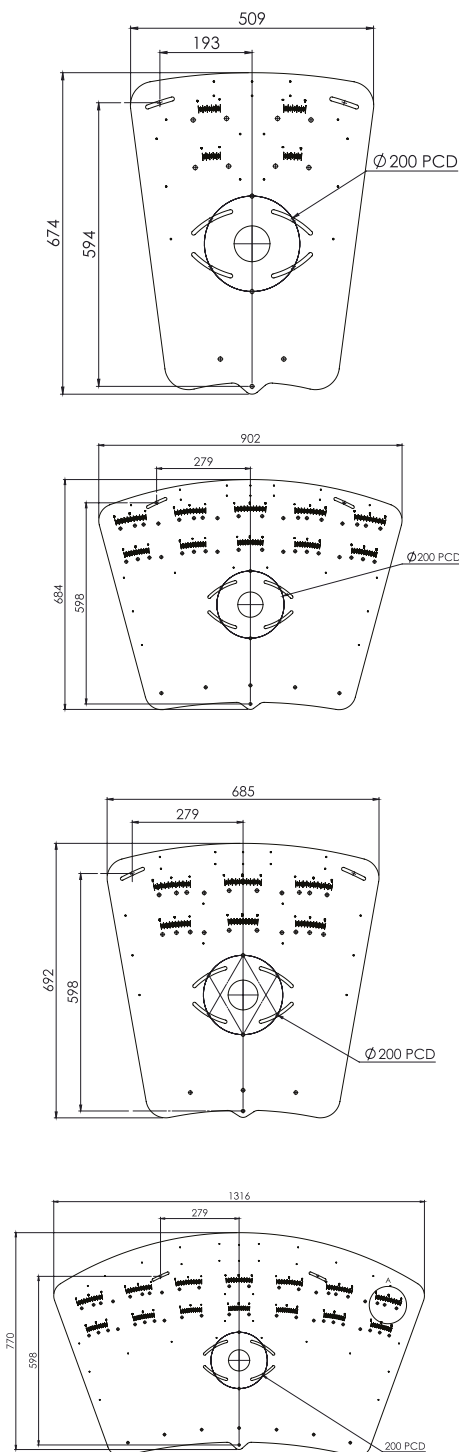
5°	40000cd	169000cd	167000cd
10°	10780cd	47000cd	45500cd

## Optical specification

<b>Light source</b>	High Power Light Emitting Diode (LED)
<b>Horizontal divergence</b>	5°, adjustable from 0.5° – 5° (linear adjustment) 1°, adjustable from 1.0° (linear adjustment)
<b>Vertical divergence</b>	±1.8° @ 50% intensity ±1.9° @ 10% intensity ±3.6° @ 50% intensity ±3.7° @ 10% intensity
<b>Temperature control</b>	LEDs monitored for constant intensity control and over temperature protection

## Main Technical Specification

<b>Nominal Range</b>	5 degrees, up to 21.0 NM 10 degrees, up to 17.8 NM
<b>Lens</b>	Acrylic and glass
<b>Base</b>	Marine grade aluminium
<b>Body</b>	Marine grade aluminium and injection moulded UV stable plastic
<b>Designed service life</b>	10 years
<b>Weight</b>	2.4 - 19.1 kg
<b>Temperature range</b>	-30° – +50°C
<b>Voltage</b>	10-30 VDC
<b>Solar charger</b>	N/A
<b>Degree of protection</b>	IP 67
<b>Cable length</b>	2 m / 6 m



## Order Overview VLS-46 Ultra

### Product code

Code	Note
VLS-46U-D-Cc(-Cc)(-Cc)(-GS)-BPY	
D	Divergence
C	Color (R, G, W)
c	Quantity of projectors in that colour (1-7)
BPY	Base plate (BP2, BP3, BP5, BP7)

### Option matrix

GS	Internal GPS sync module as factory option
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