



## VLS-46 Ultra

**Adjustable LED sector light**  
**25 NM by night, 6,2 NM by day**

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.

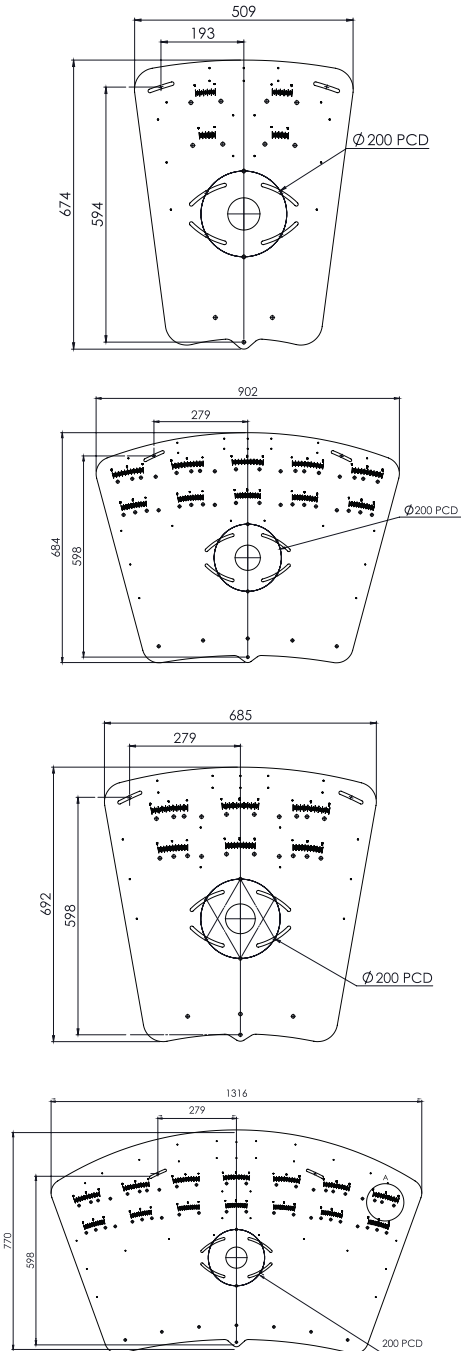
The VLS-46 Ultra has been designed to take advantage of the latest LED technology. The key features include:

- **Peak intensity up to 167000 cd**
- **1 minute of arc boundary precision when viewed from 5000 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**
- **Range 33,2 NM by night and 4,7 NM by day @ 0,85T**
- **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 21.8 kg**



Performance

| Product                                   | Horizontal divergence | Vertical divergence @ peak intensity | Peak intensity red | Peak intensity green | Peak intensity white |
|---|-----------------------|--------------------------------------|--------------------|----------------------|----------------------|
| VLS-46U-5D                                | 5°                    | 3.6°                                 | 42 000 cd          | 140 777 cd           | 167 000 cd           |
| VLS-46U-10D                               | 10°                   | 7.2°                                 | 11 320 cd          | 39 151 cd            | 45 500 cd            |
| <b>Power consumption @ peak intensity</b> |                       |                                      | 58 W               | 85 W                 | 67 W                 |



Optical specification

|                       |  |
|-----------------------|--|
| Light source          | High Power Light Emitting Diode (LED)  |
| Horizontal divergence | 5°, adjustable from 0.5° – 5° (linear adjustment)<br>10°, adjustable from 1.0° – 10° (linear adjustment) |
| Temperature control   | LEDs monitored for constant intensity control and over temperature protection                            |

Main technical specification

|                       |  |
|-----------------------|--|
| Nominal range         | 5 degrees, up to 21,0 NM<br>10 degrees, up to 17,8 NM          |
| Lens                  | Acrylic and glass  |
| Base                  | Marine grade aluminium   |
| Body                  | Marine grade aluminium and injection moulded UV stable plastic |
| Designed service life | 10 years   |
| Weight                | 2.4 - 19.1 kg  |
| Temperature range     | -30° to +50°C / -22° to +122°F                                 |
| Voltage               | 10 - 30 VDC  |
| Solar charger         | N/A  |
| Degree of protection  | IP67   |
| Cable length          | 1.5 m  |

Order Overview VLS-46 Ultra

Product code

| Code                                 | Note  |
|--------------------------------------|---|
| VLS-46U-D-Cc(-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 |
|----|--|