Features:

- State-of-the-art LED technology.
- High-efficiency luminous system.
  Up to 20 nm (T=0.74), 31 nm (T=0.85).
- Vertical divergence up to 2° (50%Io).
- Shock-resistant acrylic lens cover.
- Average operation lifetime over 15 years.
- Photocell adjustable in lux.
- IP 67 watertightness degree (immersion resistant).
- Linear adjustment of luminous intensity.
- Double RS-232 serial port for setting adjustments by PC and remote monitoring system.
- Programming, configuration and operating status via PC, IR programmer or Bluetooth.
- Short-circuit, reverse-polarity, over-temperature and transient over-voltage protections.
**Light source:**
36 nos. ultra-bright LED diodes, with high-precision acrylic lens per level (up to 5 levels).

**Luminous range:**
Up to 20 nm (T=0.74) 31 nm (T=0.85).

**Colours available:**
White, green, red, amber and blue.

**Vertical divergence:**
Up to 2° (50% Io).

**LED average life:**
More than 100,000 hours.

**Power supply:**
From 9 to 36V.

**Lantern consumption:**
From 36 to 600W.

**Flash rhythms:**
256 (6 nos. user selectable).

**Day/night threshold:**
Adjustable between 10 and 400 lux.

**Settings:**
PC / IR programmer / Bluetooth.

**Luminous intensity adjustment:**
Linear, between 10 and 100%.

**Light intensity reduction due to low battery:**
Configurable by the user.

**Base:**
Marine aluminium, with polyurethane finishing.

**Lens cover:**
Acrylic, UV stabilised.

**Shock resistance:**
MIL-STD-202G, Method 213B.

**Watertightness degree:**
IP 67.

**Fixings:**
4 bolts in a 355mm diameter.

**Humidity resistance:**
100%. Pressure-compensation valve to avoid condensation.

**Temperature range:**
From -30º to 70ºC.

**Inside hardware:**
Stainless steel.

**Materials and environment**

**Peak intensities (Cd)**

<table>
<thead>
<tr>
<th>Levels</th>
<th>P(W) White(Cd)</th>
<th>P(W) Green(Cd)</th>
<th>P(W) Red(Cd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>120W 20,000</td>
<td>130W 16,000</td>
<td>65W 10,500</td>
</tr>
<tr>
<td>2(*)</td>
<td>120W 40,000</td>
<td>192W 24,000</td>
<td>130W 21,000</td>
</tr>
<tr>
<td>3(*)</td>
<td>360W 60,000</td>
<td>360W 44,340</td>
<td>195W 31,500</td>
</tr>
<tr>
<td>4(*)</td>
<td>480W 80,000</td>
<td>480W 59,120</td>
<td>260W 42,000</td>
</tr>
<tr>
<td>5(*)</td>
<td>600W 100,000</td>
<td>600W 73,900</td>
<td>325W 52,500</td>
</tr>
</tbody>
</table>

* Maximum duty cycle up to 35%.

**Options**

- Infrared (IR) programmer.
- PC programming kit.
- RS-485 MODBUS serial port.
- Other specifications available under request.
- MBB 500-SYNC (GPS synchronisation).
- MBB 500-TG (GSM remote monitoring).
- MBB 500-TR (Radio remote monitoring).
- MBB 500-TS (Satellite remote monitoring).
- MBB 500-AIS (AIS AtoN).