LED 155
Marine LED light for buoys and minor beacons

LED 155 is a general purpose LED lantern commonly used on both fixed and floating structures. The lantern is modular in design. It can be configured with two different vertical divergencies and 1-3 tiers depending on operational requirements.

- Range up to 8 nm at Tc = 0.74 (12 at Tc = 0.85)
- Standard IALA colours Red, Green, White, Yellow and Blue/Yellow
- Rugged aluminium housing for installation in harsh marine environment
- Extremely low power consumption, suitable for solar and battery operation
- Integrated flasher with daylight switch and solar charger
- Integrated solar panel charger using pulse width modulation
- Adjustable intensity and range
- Available with narrow (6°) or wide (10°) vertical divergence
- Programming with wireless Sabik PDA Programmer
- Integrated event log for 365 days
- Optionally integrated GPS synchronization
- Optionally integrated GSM Remote monitoring

Bird spikes
Stainless steel as standard. Easy to replace. Special spikes for protection against comorants and other large birds on request.

GPS
GPS unit and antennas integrated in the lantern for wireless synchronization and for position monitoring.

Light Guard GSM
GSM unit and antennas integrated in the lantern for remote monitoring and control.

Additional cable entry
Equipped as standard with two cable entries. If the second entry is needed e.g. for a solar module standard M20 cable gland can be fitted.

Light Guard GSM
GSM unit and antennas integrated in the lantern for remote monitoring and control.

Installation
The bottom plate supports installation on structure with 3 x M12 bolts on a 200 mm radius. The mounting holes are galvanic isolated with plastic isolators. PTFE breathing vent for pressure release.

PDA Programmer
Wireless two way infra red communication with Sabik PDA Programmer to set flash code, range, photocell, switch level etc. The event log data is also readable with the Programmer.

OFBS
The optional Optical Feedback System (OFBS) enables built-in monitoring of LED degradation over time.

Simplex
Duplex
Triplex

Simplex
Duplex
Triplex

White
Red
Green
Yellow

Marine Lanterns
**Order Overview LED 155**

**Option matrix**

- **LightGuard GSM**: Integrated GSM based monitoring with GSM antenna
- **LightGuard GPS**: Integrated GSM based monitoring with GSM/GPS antennas
- **GPS sync**: Integrated GPS sync only unit with GPS antenna in lantern top
- **Optical Feedback System**: Integrated LED performance measurement
- **Shock & Tilt Sensor**: Integrated 3-axis G sensor for tilt and shock sensing

<table>
<thead>
<tr>
<th>Lens Option</th>
<th>Additional Options (several can be selected)</th>
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<tbody>
<tr>
<td>N = Narrow  (6° @ 50 % of peak intensity)</td>
<td>1: Optical Feedback System (OFBS)</td>
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<tr>
<td>W = Wide (10° @ 50 % of peak intensity)</td>
<td>4: GPS sync with integrated GPS antenna</td>
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<td>7: External GPS antenna</td>
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<td></td>
<td>8: Shock and Tilt sensor</td>
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<td></td>
<td>9: LightGuard SMC + GPS (integrated antennas included)</td>
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<td></td>
<td>10: LightGuard SMC (integrated antennas included)</td>
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</table>

**Product code example:** 980124SMC-N-1.9

- 980124 is Sabik code for a single tier LED 155 R
- N = Narrow lens
- 1 stands for the option 1 Optical feedback system
- 9 indicates that option 2 Light Guard SMC is chosen

**Order Overview LED 155 B/Y**

**Wreck marking lantern**

**Option matrix**

- **GPS sync**: GPS Syncrony unit with GPS antenna integrated in the top of the lantern

**Product codes**

- **LED-155 BLUE/YELLOW WRECK MARK**: 980106

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**Technical Specification LED 155**

- **Lens visual/Mechanical diameter**: 160 mm
- **Lens material**: UV stabilized Polycarbonate
- **Light source**: Light Emitting Diodes (LEDs)
- **Vertical divergence**: 6° @ 50% (±1°) and 10° @ 10% (±2°) of peak intensity
- **Unit lifetime**: Up to 10 years
- **Weight**: 4.2 kg
- **Temperature range**: -40°...+60°C
- **Supply Voltage**: 8 – 30 VDC
- **Power consumption**: 6 watts

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**Optical performance LED 155**

- **Maximum fixed intensity, narrow lens (fixed structures)**
  - Simplex, 6 W: 110 cd, 270 cd, 450 cd, 200 cd
  - Duplex, 12 W: 220 cd, 513 cd, 720 cd, 380 cd
  - Triplex, 18 W: 339 cd, 756 cd, 1080 cd, 560 cd

- **Maximum fixed intensity, wide lens (floating structures)**
  - Simplex, 6 W: 129 cd, 250 cd, 450 cd, 200 cd
  - Duplex, 12 W: 259 cd, 513 cd, 720 cd, 380 cd
  - Triplex, 18 W: 356 cd, 756 cd, 1080 cd, 560 cd

**Optical performance LED 155 B/Y**

- **Nominal 5 W**: 45 cd

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**Main Technical Specification LED 155 B/Y**

- **Lens visual/Mechanical diameter**: 160 mm
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