



OPTIONAL

## MLP2000

### Extensive luminous system

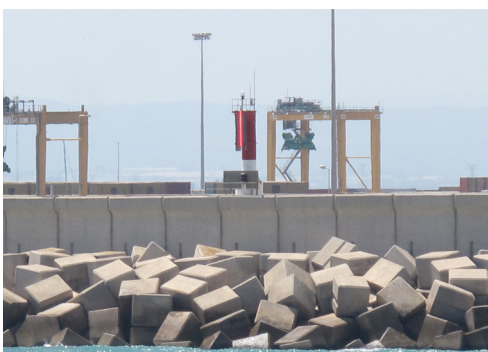
The MLP2000 Lite Pipe is an extensive luminous system, consisting of optical elements with high-intensity LED diodes arranged vertically, which reinforces the identification of an aid to navigation.

### Increase the conspicuity of port entrance lights

This system is designed to increase the conspicuity of port entrance lights, thus avoiding to be confused with other lights in locations with strong background lighting. It can also be used in places where two-light leading stations are needed, or as an emergency beacon in big lighthouses.

### Modular design

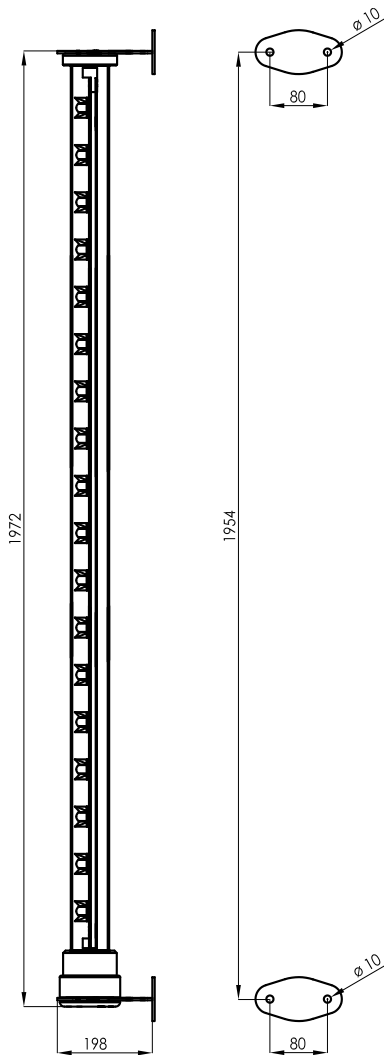
With just 36 W of power it can be identified at 22 nautical miles. Its modular construction allows multiple configurations and different heights. Designed according to IALA Recommendations.



## FEATURES

- *State-of-the-art LED technology.*
- *Modular and flexible conception.*
- *High-efficiency luminous system and minimum consumption. Up to 15 nm ( $T=0.74$ ), 22 nm ( $T=0.85$ ).*
- *Vertical divergence up to 5° (50%  $I_0$ ).*
- *Horizontal divergence up to 120° (50%  $I_0$ ).*
- *Average operation lifetime over 10 years.*
- *IP 67 watertightness degree (immersion resistant).*
- *Anti-humidity device to avoid condensation.*
- *Double RS-232 serial port for setting adjustments by PC an remote monitoring system.*
- *Anodised marine-aluminium housing and acrylic lens cover.*
- *Minimum-maintenance.*
- *PATENTED OPTICAL SYSTEM.*

# MLP2000



## Optical system (2m height)

<b>Light source:</b>	18 nos. ultra-bright LED diodes, with high-precision acrylic lens.
<b>Luminous range:</b>	Up to 15 nm (T=0.74) 22 nm (T=0.85).
<b>Power supply:</b>	Up to 36 W, adjustable.
<b>Vertical divergence:</b>	Up to 5° (50% I <sub>0</sub> ).
<b>Horizontal divergence:</b>	Up to 120° (50% I <sub>0</sub> ).

## External electronic control unit

<b>Flash rhythms:</b>	256 (6 nos. user selectable).
<b>Day/night threshold:</b>	Adjustable between 10 and 400 lux.
<b>Settings:</b>	- PC. - Bluetooth.

Reverse-polarity, short-circuit and transient overvoltage protections.

## Materials and environment

<b>Housing:</b>	Anodised marine aluminium.
<b>Lens:</b>	Acrylic, UV stabilised.
<b>Lens cover</b>	Acrylic.
<b>Watertightness degree:</b>	IP 67.
<b>Humidity resistance:</b>	100%. Pressure-compensation valve to avoid condensation.
<b>Temperature range:</b>	From -30° to 70°C.
<b>Fixings:</b>	Wall-mounted, 4 nos. M10 bolts.

## Options

Other heights and powers available.  
 Custom-made sectorising.  
 Modular manufacturing allowing heights in 2 m increments up to 6 m.  
 Synchronization by cable or GPS module.  
 Remote monitoring module via GSM, radio or satellite.  
 RS-485 MODBUS serial port.  
 Pole mounting.

## Peak intensities (Cd)

Model	Power	White	Green	Red	Yellow
MLP1000	18 W	6,840	4,550	2,714	2,050
	36 W	11,502	7,900	4,122	3,100
MLP2000	18 W	6,840	4,550	2,714	2,050
	36 W	11,502	7,900	4,122	3,100
MLP4000	36 W	12,960	9,100	5,428	4,100
	72 W	23,000	15,800	8,244	6,200
MLP6000	54 W	20,520	13,650	8,142	6,150
	108 W	34,506	23,700	12,366	9,300

! Specifications subject to change without previous notice.