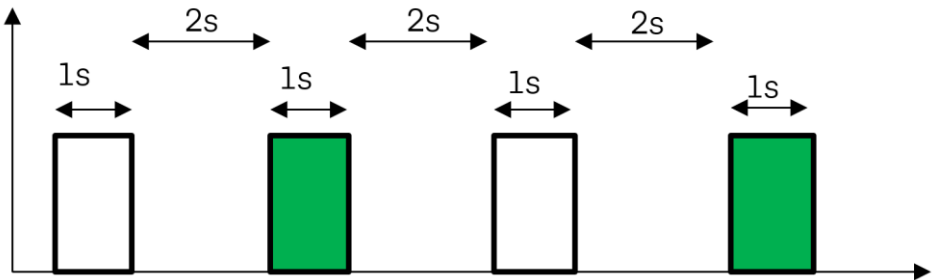
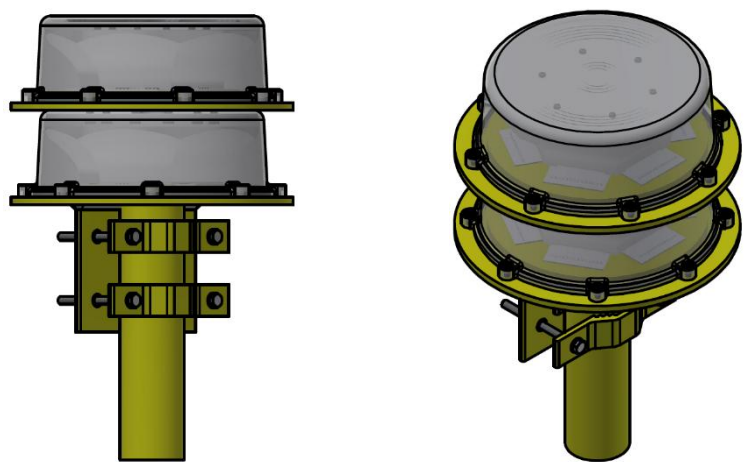


Aerodrome Beacon ABN



Compliance To Standards	ICAO: Annex 14, Volume I - Aerodrome Design and Operations IEC TS 61827: Electrical installations for lighting and beaconing of aerodromes. Characteristics of inset and elevated luminaires used on aerodromes and heliports
Application	The Aerodrome Beacon is a powerful, omnidirectional white and green light intended to signal the presence of an Airport.
Features	Designed and built with simplicity and ease of maintenance in mind. High power LED technology. Lightweight, low-energy and environment friendly lighting fitting. Extensive use of aluminum alloys reduces fitting weight and eases handling in the field. ABN Signals: Alternating white and green flashes of 1 s with 2 s between flashes  The diagram illustrates the timing of the ABN (Aerodrome Beacon) signals. It shows a sequence of four rectangular pulses on a horizontal timeline. The first and third pulses are white, while the second and fourth are green. Each pulse is labeled with '1s' above it, indicating a 1-second duration. Between each pulse, there is a double-headed arrow labeled '2s', indicating a 2-second interval between the start of consecutive flashes. The timeline starts and ends with an arrowhead, suggesting a continuous sequence.

Product Code	AL - 082 - 84 - WH - 84 - GR Series Indicator (Airfield Lighting) AL Product Indicator 082 LEDs Number 84 LEDs Light Color (WH) WH LEDs Number 84 LEDs Light Color (GR) GR
Description	Light fixture body - Powder coated aluminum RAL 1004 (aviation yellow)  Dispenser - clear polycarbonate Cable gland - nickel plated brass Fasteners - stainless steel Light fixtures are provided with anti-condensation valve. Light fixtures are UV protected.
Environment	Temperature range: -20° to +55° Degree of protection: IP65 Ka tested: in accordance with IEC 60068-2-11 and IEC 60068-2-25
Mounting	The ABN can be mounted on a metal tube with a diameter ranging from 32 mm to 80 mm and should be positioned at a height that ensures visibility from any direction. 

Electrical Characteristics

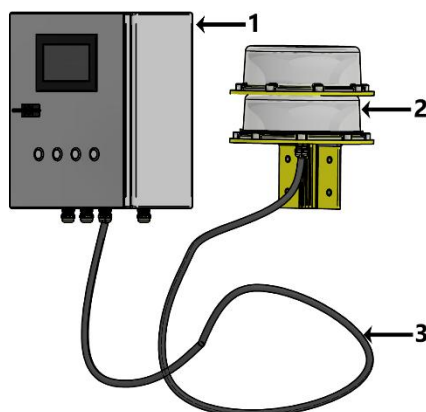
Average power:

50 W including the controller

Peak power:

Max 150 W including the controller

Electrical connections:



1. Controller
2. Beacon pre cabled
3. Flexible cable

Power supply directly from controller with 3 core cable:

V+ (Red)

V - (Black)

GND (Green / Yellow)

Mechanical Characteristics

Diameter:

220 mm

Total height:

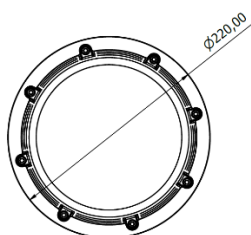
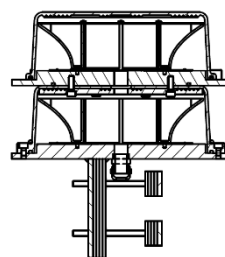
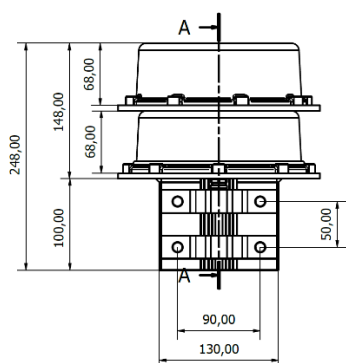
248 mm

Weight:

4.4 kg

Fastening system:

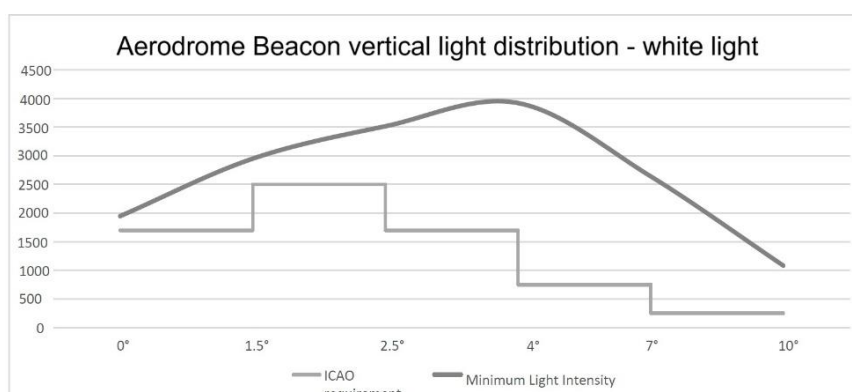
from $\Phi 32$ mm up to $\Phi 80$ mm pipe



Photometric Characteristics

Intensity level: 100%, 10%, 3% with controller in 48 V DC
Horizontal output: 360°
Light color: White and green light

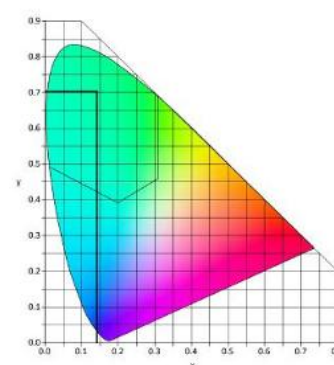
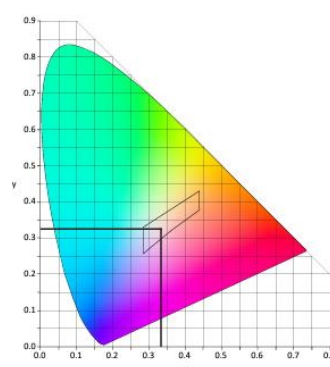
Vertical elevation angle	0°	1.5°	2.5°	4°	7°	10°
Required minimum intensity [cd]	1700	2500	2500	1700	750	250
Measured minimum intensity [cd]	1947	3951	3517	3922	2642	1083



Minimum 2000 effective cd.

The brightness intensity values comply with:
ICAO Annex 14 Vol.2 fig.5-11/1

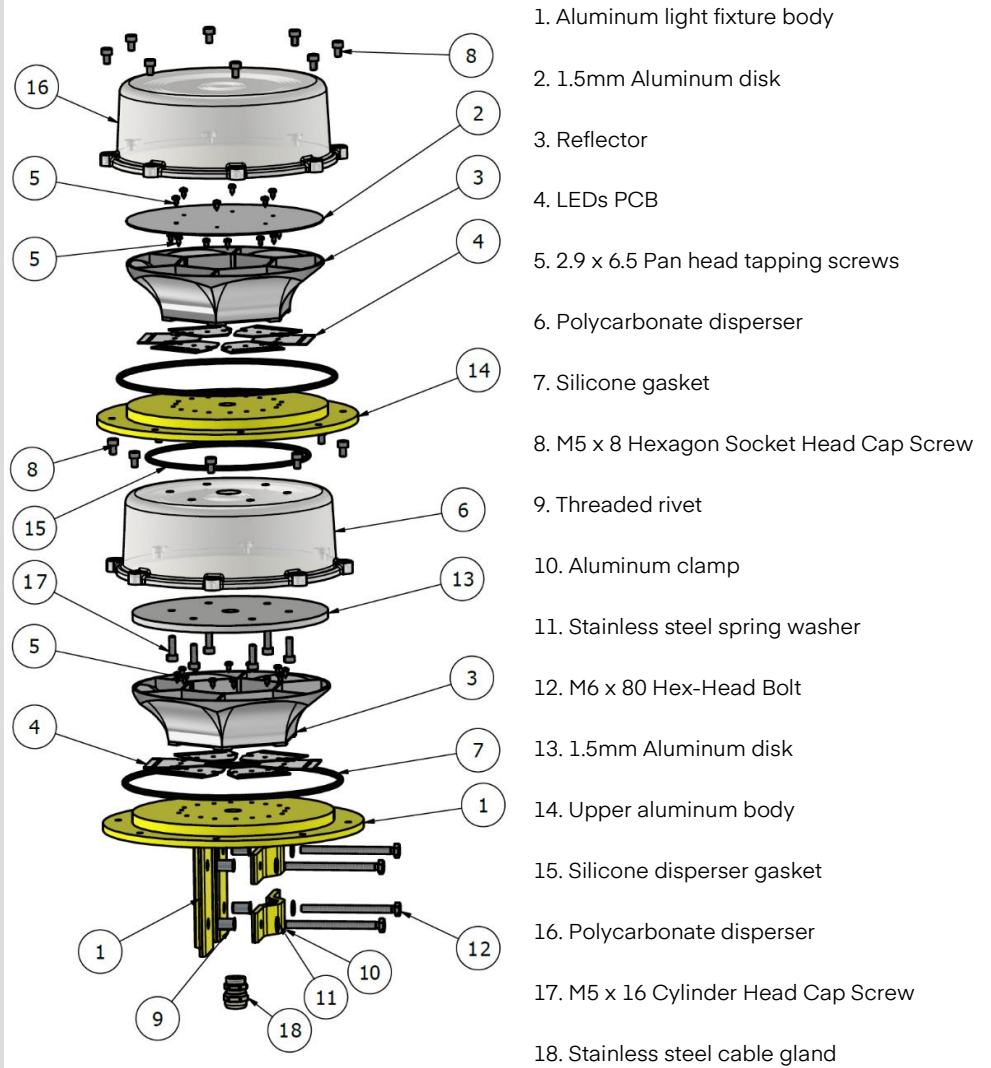
The light colors emitted by the light fixture are white and green, with the trichromatic coordinates:



The measured trichromatic coordinates correspond to color range requirements in:

ICAO Annex 14 - Aerodromes Vol.1, fig. A1-1b.
Colors for aeronautical ground lights (solid state lighting)

Spare Parts



Accessory

To order accessories please call our customer support.
For contact details please refer to our website - www.signalight.com



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