SP-401 PORTABLE TAXIWAY LIGHT, TURNING PAD LIGHT

Compliance:
ICAO Annex 14 Vol. I (7th. Edition, July 2016)

FEATURES

- 600 hrs of autonomy
- Remote activation
- Convertible to solar airfield light

APPLICATION

Mobile airfield light designed to quickly illuminate temporary airfield in accordance with ICAO:

- Temporary taxiway
- Backup taxiway lighting

TECHNICAL SPECIFICATIONS

Optics

- 11 cd light output (tested by accredited laboratory)
- Omnidirectional type
- LED lifespan: 100.000 hrs
- Maximum power consumption: 0,6W
- NVG-compatible (optional)
- Color: blue
- User-replaceable

Battery

- 2 x built-in batteries
- Autonomy: 600 hrs (minimum intensity)
- Total capacity: 216W (2x9Ah/12V)
- Deep-cycle VRLA, 12V/9Ah (available worldwide)
- Lifespan: 1.200 cycles (designed for 4-5 years)
- User-replaceable, air transportable

Charging

- Via OCT-401 Charger (charging time: 8 hrs)
- Contactless charging in a Trailer (charging time: 8 hrs)
- Optional: solar power supply

Remote Activation & Control

- Wireless mesh type network
- Operating frequency: 868 MHz (optional 2.4GHz or 433 Mhz)
- Operating range: up to 1.5 km, relayed (each light is a repeater)

Operating Modes:
- Steady / Flashing / Dusk till dawn
- Visible / Infrared (optional) / Visible + Infrared (optional)

Remote activation:
- Via UR-101 Handheld Controller
- Via UR-201 Control & Monitoring Unit
  GSM activation (Cell Phone)
  VHF activation (Air-band Radio)
- Via ALCMS Computer Interface (requires UR-201)

Casing & Components

- Materials
  Dome: glass, UV-resistant
  Casing: Lexan polycarbonate, UV-stabilized
  Carrying handle: stainless steel
- Detachable antenna
- Pressure stabilizing valve
- Battery level indicator
- Transport circuit breaker
- Casing lifespan: 15 years
- Optional: frangible mounting (tested by accredited laboratory)
- Dimensions (LxWxH): 244 mm x 185 mm x 297 mm
- Weight: 7 kg

Safety & Reliability

- Five levels of protection against system failure
- Secondary power supply: backup battery
- Failure auto reporting via SMS (requires UR-201 Unit)
- Emergency ON/OFF button

Environmental Conditions

- Temperature range: -20 to 50 °C (-4 to 122 °F)
  Optional: -40 to 80 °C (-40 to 176 °F)
- Ingress protection: IP-67 (tested by accredited laboratory)
- Jet blast resistance: 240 kph (tested by accredited laboratory)

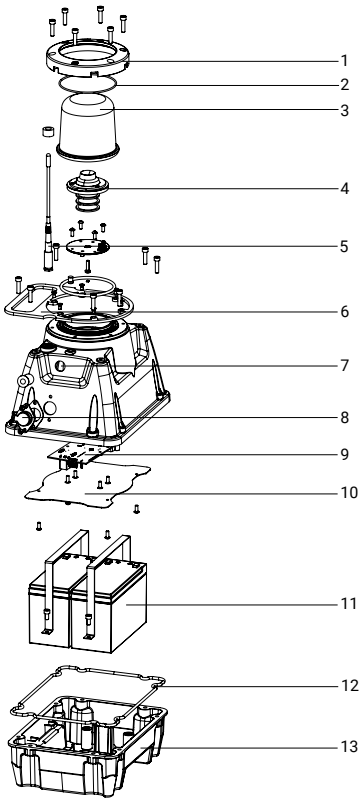
Compliance

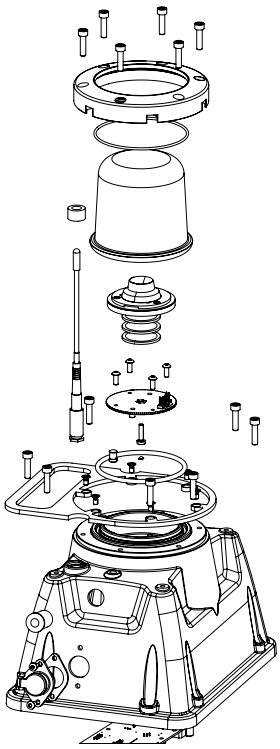
Photometric & Chromaticity	ICAO, Annex 14th, Volume I, 7th Edition dated July 2016, clause 5.3.18.7 & clause 5.3.18.8, Appendix 1, Figure A1-1b
Jet Blast Resistance	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018. Doc 9157, Part 6, clause 3.2.2 & clause 4.9.1.
	FAA AC 150/5345-50B dated September 2007, clause 3.2.2
Frangibility	ICAO Doc 9157 AN901 Aerodrome Design Manual Part 6, 1st Edition dated 2006, clause 4.9
	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 5.3.1.3
	FAA AC 150-5345-46E clause 3.4.2.1
	FAA AC 150/5220-23, clause 3.2
Secondary Power Supply	ICAO, Annex 14th, Volume I, 7th Edition dated July 2016, clause 8.1.8-8.1.9 & clause 8.1.11
CE Declaration of Conformity	2014/53/EU RED Directive, clauses 3.1a, 3.1b, 3.2
	2011/65/EU ROHS Directive, clause 4.1

Accredited Laboratory Testing

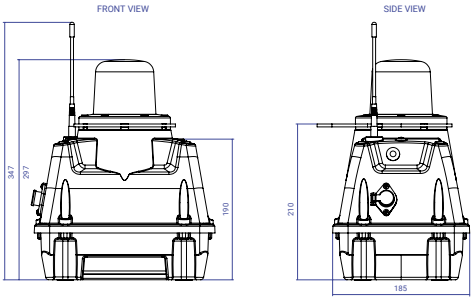
Photometric & Chromaticity	Intertek Laboratory
Jet Blast Resistance	Warsaw Institute of Aviation The Laboratory of Aerodynamics
Frangibility	Laborex Research Laboratory
Ingress Protection	EMAG Institute of Innovative Technologies
Electromagnetic Compatibility	Military Institute of Armament Technology

TECHNICAL DRAWING

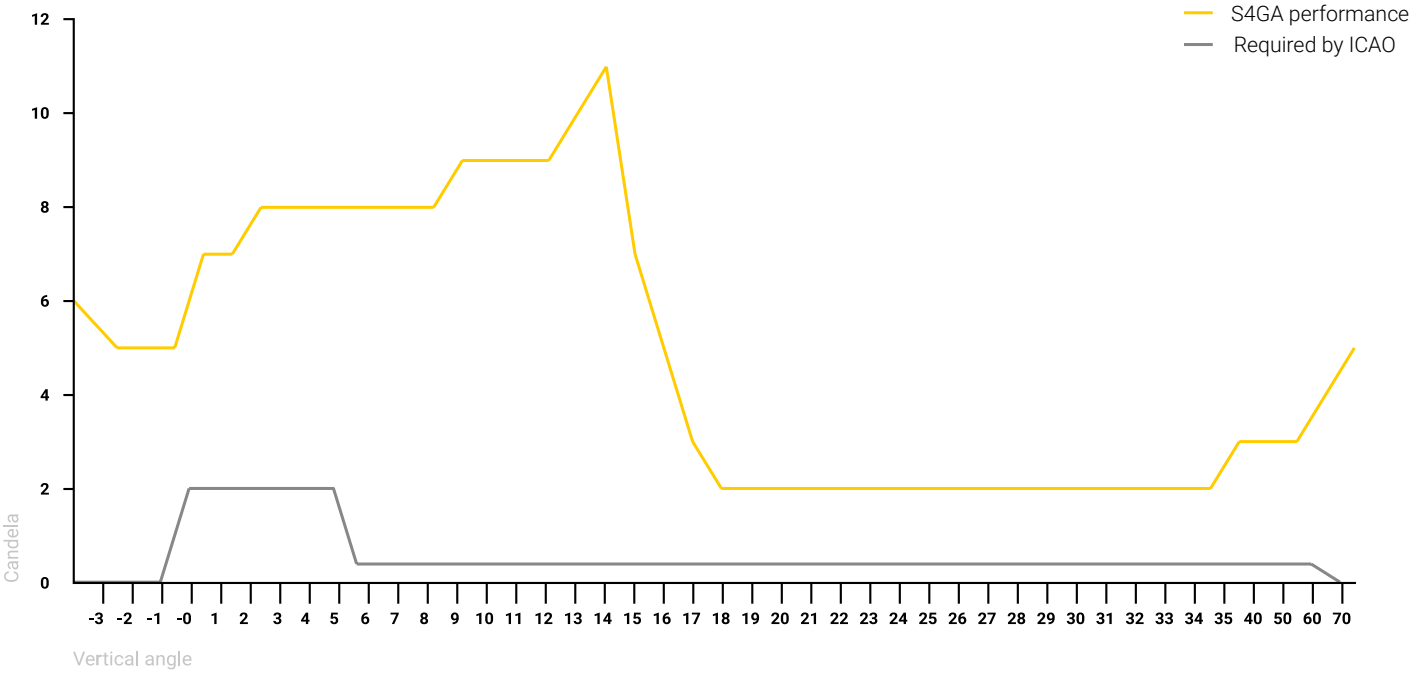




1.	Aluminum adapter for glass dome
2.	Rubber seal
3.	Glass dome
4.	LED optics, omnidirectional type
5.	Radio antenna for wireless control & monitoring
6.	Carrying handle
7.	Emergency ON/OFF button
8.	Charging port for backup charging via cable
9.	Micro-computer with integrated radio transceiver
10.	Protective plate
11.	2 × batteries built-in, VRLA type 12V/9Ah
12.	Rubber seal
13.	UV-stabilized Lexan polycarbonate casing



PHOTOMETRIC PERFORMANCE



SHIPPING DATA

Item	Dimensions of Package (L×W×H)	Gross Weight
SP-401 Lighting Unit	350 mm × 250 mm × 210 mm	8,2 kg
SP-401 Lighting Unit, NO batteries	350 mm × 250 mm × 210 mm	3 kg