SP-401 LED ELEVATED RUNWAY EDGE LIGHT

MEDIUM INTENSITY

TECHNICAL SPECIFICATIONS

Optics
- 1.200 cd light output
- Combined type, omnidirectional and bidirectional
- LED lifespan: 100,000 hrs
- Maximum power consumption: 9W
- NVG-compatible (optional)
- Color: white / white, white / yellow, white / red, red / yellow
- User-replaceable

Battery
- 2 x built-in batteries
- Autonomy: 180 hrs (minimum intensity)
- Total capacity: 216W (2x9Ah/12V)
- Deep-cycle VRLA, 12V/9Ah
- Lifespan: 1,200 cycles
- Designed for 4-5 years
- Air transportable
- User-replaceable
- Standard type, available worldwide

Solar Power Supply
- 20W solar panel, separately installed
- Poly- or monocrystalline type
- Standard optimal inclination (upon request)
- Lifespan: 15 years
- Built-in inverter 12-36V/2A

Certification
- ICAO, Annex 14th, Volume I, 7th Edition dated July 2016, clause 5.3.9.9 & Appendix 1, Figure A1-1b

APPLICATION

Medium intensity, combined optics (bi- and omnidirectional); designed for permanent usage at Non-Precision Runways located in regions without access to electricity and high photovoltaic potential.

FEATURES
- Operates 365 days on solar energy
- Wireless mesh control
- 180 hrs of light autonomy
- 1,200 cd light output

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

Control & Monitoring
- Wireless mesh type network
- Up to 1.5 km operating range
- Activation options:
  - Via UR-201 Control & Monitoring Unit
  - Via ALCMS Computer Interface
  - Via UR-101 Handheld Controller
- Emergency ON/OFF button
- Self-diagnostics
- Real-time monitoring via ALCMS (Airfield Lighting Control and Monitoring System)

Environmental Conditions
- Temperature range: -20 to 50 ºC (-4 to 122 ºF)
- Ingress protection: IP-67
- Wind Speed: 160 kph

Casing And Components
- Casing made of UV-stabilized Lexan polycarbonate
- Outer UV-resistant glass dome
- Detachable antenna
- Pressure stabilizing valve: yes
- Battery level indicator: yes
- Carrying handle (optional)
- Casing lifespan: 15 years
- Casing color: aviation yellow
- Frangible mounting compliant with ICAO regulations
- Dimensions (LxWxH): 528 mm x 450 mm x 442 mm
- Weight: 12.4 kg
**TECHNICAL DRAWING**

1. Aluminum adapter for glass dome
2. Rubber protection
3. Glass dome
4. LED optics, combined type omni- and bidirectional
5. Radio antenna for wireless control & monitoring
6. Micro-computer with integrated radio transceiver
7. Rubber protection
8. UV-stabilized Lexan polycarbonate casing
9. Emergency ON/OFF button
10. Charging port for solar panel
11. Protective plate
12. 2 x batteries built-in, VRLA type 12V/9Ah
13. 20W Solar panel with standard optimal inclination
14. Frangible mounting
15. Solar holder

**PHOTOMETRIC PERFORMANCE**

- **White Direction 1**
  - Average Intensity 750 cd
  - Average Intensity 950 cd
  - Average Intensity 1,200 cd

- **White Direction 2**
  - Average Intensity 750 cd
  - Average Intensity 950 cd
  - Average Intensity 1,200 cd

**SHIPPING DATA**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions of Package (LxWxH)</th>
<th>Gross Weight</th>
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<tbody>
<tr>
<td>SP-401 Lighting Unit with accessories</td>
<td>600 mm x 400 mm x 360 mm</td>
<td>13 kg</td>
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