

SP-401 SOLAR TAXIWAY EDGE LIGHT, TURNING PAD LIGHT





Compliance:

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



FEATURES

- Operates 365 days on solar energy
- 5-level protection against system failure
- 600 hrs of autonomy

APPLICATION

Omnidirectional optics; designed for permanent usage at airports located in regions without access to electricity and with high photovoltaic potential.

Five levels of protection against system failureSecondary power supply: backup battery

TECHNICAL SPECIFICATIONS

	TECHNICAL S		
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		
	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		
Solar Power Supply			
	20W solar panel, separately installed Poly- or monocrystalline type Lifespan: 15 years MPPT-Temp / Built-in inverter 12-36V/2A		
Control & Monitori	ing		
· ·	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)		
	Activation options: Via ALCMS Computer Interface (requires UR-201) Via UR-201 Control & Monitoring Unit Via UR-101 Handheld Controller		
Casing & Components			
	Materials		

Dome: glass, UV-resistant

Detachable antenna
Pressure stabilizing valve
Battery level indicator
Carrying handle (optional)
Casing lifespan: 15 years

Weight: 12,4 kg

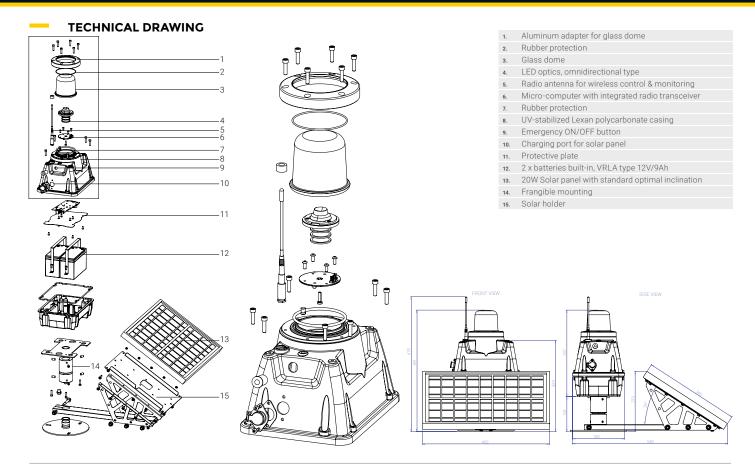
Casing: Lexan polycarbonate, UV-stabilized

• Dimensions (LxWxH): 549 mm x 450 mm x 431 mm

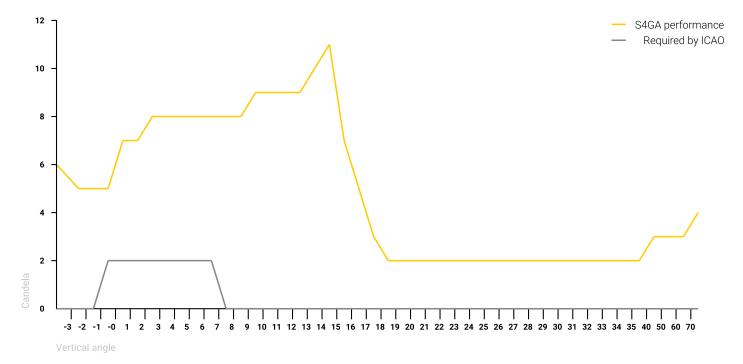
Mounting: galvanized steel (optional: marine grade stainless steel) Frangible mounting: aluminum (tested by accredited laboratory)

Secondary power supply: backup battery					
Real-time monitoring via ALCMS					
(Airfield Lighting Control and Monitoring System)					
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)					
	ce: 240 kph (tested by accredited laboratory)				
Compliance	se. 2 to this (costs of doored to do active)				
Compilation	IOAO Assass 14th Waltures I 7th Edition dated bulk				
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				
Let Diseas Desistance	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018. Doc 9157, Part 6, clause 3.2.2 & clause 4.9.1.				
Jet Blast Resistance	FAA AC 150/5345-50B dated September 2007, clause 3.2.2				
	ICAO Doc 9157 AN901 Aerodrome Design Manual Part 6, 1st Edition dated 2006, clause 4.9				
Frangibility	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/UE RED Directive, clauses 3.1a, 3.1b, 3.2				
of Bedardion of Comornity	2011/65/UE 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				





PHOTOMETRIC PERFORMANCE



SHIPPING DATA

Item	Dimensions of Package (LxWxH)	Gross Weight
SP-401 Lighting Unit	490 mm x 360 mm x 570 mm	14,8 kg
SP-401 Lighting Unit, NO batteries	490 mm x 360 mm x 570 mm	9,6 kg