

LED (IR) PAPI PRECISION APPROACH PATH INDICATOR L-880(L), L-881 (L)

LED TYPE **110-230VAC**



				<p>Compliance: ICAO Annex 14 Vol. I (8th. Edition, July 2018) EASA CS-ADR-DSN FAA 150/5345-28H TP312 (5th Edition, 2015)</p>
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- FEATURES**
- NVG Compatible
 - Replaceable optic elements
 - Automatic Tilt Switch
 - Radio Control Monitoring
 - Multi-lamp PAPI Projector
 - Visibility range: more than 10 km

APPLICATION

LED one-projector PAPI with solar power supply; designed for permanent usage at Airports located in regions with unavailable electrical infrastructure and high photovoltaic potential.

TECHNICAL SPECIFICATIONS

Optics		Safety & Reliability													
<ul style="list-style-type: none"> • One-projector PAPI unit (optional: double projector) • LED Type • NVG capable (optionally) • Vertical adjustment 0-10 • Transition: Better than 3 minutes of arc on beam axis • Maximum power consumption: 80W per unit • Adjustable intensity level: 1, 3, 10, 30, 100% • LED lifespan: 50.000 hrs • Azimuth range: +/- 8 (ICAO) or +/- 10 (FAA) • LED module replacement does not require re-alignment of optical elements 		<ul style="list-style-type: none"> • Real-time monitoring (requires ALCMS) • Short-circuit protection • Emergency ON/OFF button • Tilt-fail detection • Individual PCU per PAPI unit (optionally equipped with double power supply) 													
Power Supply		Casing & Components													
<ul style="list-style-type: none"> • 6.6 A • 110 - 230 VAC • SE-302 Solar Engine (not included) • S4GA Power Bank (autonomy: 15 hrs for A-PAPI) • 24 VDC 		<ul style="list-style-type: none"> • Cabinet and body material: stainless steel • Base frame, breakable coupling • Lens heater • Set of 3 anchor bolts for PAPI: yes • PCU included • Dimensions (LxW): 1055 x 980 mm • Height: 980 - 1120 mm • Weight: 47 kg 													
Power Control Unit		Compliance													
<ul style="list-style-type: none"> • Single Power Supply • Double Power Supply (optional) 		<table border="1"> <tr> <td rowspan="3">Photometric</td> <td>ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, Figure A2-23</td> </tr> <tr> <td>EASA CS ADR-DSN, Figure U-26</td> </tr> <tr> <td>FAA AC 150/5345-28H, Figure 3-1 TP312, 5th Edition dated 2015, clause 5.2.16.12, Figure B-19</td> </tr> <tr> <td rowspan="3">Chromaticity</td> <td>ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 5.3.5.30, Figure A1-1b</td> </tr> <tr> <td>EASA CS ADR-DSN.M.645.c.2.i, Figure U-1B</td> </tr> <tr> <td>FAA AC 150/5345-28H, clauses 3.2.1 & 4.9.1 TP312, 5th Edition dated 2015, clause 5.3.16.13</td> </tr> <tr> <td>Multi-lamp PAPI projector</td> <td>EASA CS ADR-DSN.M.645</td> </tr> <tr> <td>Infrared</td> <td>FAA "Infrared Specifications for Aviation Obstruction Light Compatibility with Night Vision Goggles (NVGs)" Engineering Brief No. 98, dated December 2017, clause 8.3</td> </tr> </table>		Photometric	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, Figure A2-23	EASA CS ADR-DSN, Figure U-26	FAA AC 150/5345-28H, Figure 3-1 TP312, 5th Edition dated 2015, clause 5.2.16.12, Figure B-19	Chromaticity	ICAO, Annex 14th, Volume I, 8th Edition dated July 2018, clause 5.3.5.30, Figure A1-1b	EASA CS ADR-DSN.M.645.c.2.i, Figure U-1B	FAA AC 150/5345-28H, clauses 3.2.1 & 4.9.1 TP312, 5th Edition dated 2015, clause 5.3.16.13	Multi-lamp PAPI projector	EASA CS ADR-DSN.M.645	Infrared	FAA "Infrared Specifications for Aviation Obstruction Light Compatibility with Night Vision Goggles (NVGs)" Engineering Brief No. 98, dated December 2017, clause 8.3
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Wireless Control		Accredited Laboratory Testing													
<ul style="list-style-type: none"> • Wireless mesh type network • Operating frequency: 868 MHz (optional 2.4GHz or 433 Mhz) • Operating range: up to 1.5 km, relayed • Remote activation: <ul style="list-style-type: none"> • Via UR-101 Handheld Controller • Via UR-201 Control & Monitoring Unit <ul style="list-style-type: none"> • VHF activation (Air-band Radio) • Via ALCMS Computer Interface (requires UR-201) • Photoelectric intensity control capable 		<table border="1"> <tr> <td>Photometric & Chromaticity</td> <td>TÜV Rheinland</td> </tr> </table>		Photometric & Chromaticity	TÜV Rheinland										
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Environmental Conditions															
<ul style="list-style-type: none"> • Temperature range: -35 to 55°C (-31 to 131 °F) Optional: -55 to 55°C (-67 to 131 °F) • Ingress protection: IP-65 • Resistant to accumulation of rain and snow on lenses surface 															

ORDERING CODES

S4GA PAPI - X - X - X - X - X - XXXXX

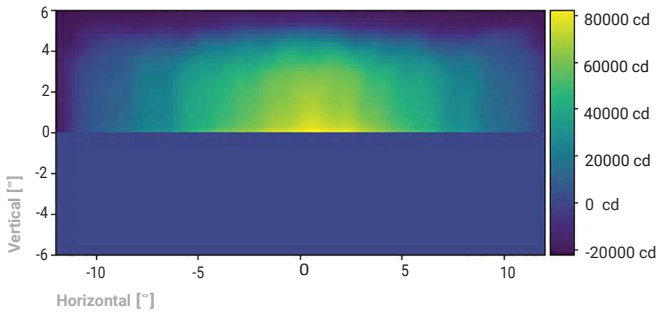
Projector	1 - One projector 2 - Double projector (NATO)
Photometrical Compliance	2 - L-881(L) / Abbreviated PAPI (2x Lighthouse Assemblies) 4 - L-880(L) / PAPI (4x Lighthouse Assemblies)
Power Supply	1 - 6.6 Amp CCR supply (Style B) 2 - 110-230 VAC 50/60 Hz (Style A) 3 - Solar Engine 4 - 24 VDC
Power Control Unit	1 - Single Power Supply 2 - Dual Power Supply
Color	1 - ICAO Yellow 2 - FAA Orange 3 - Desert Sand 4 - NATO Green

ADDITIONAL FUNCTIONS

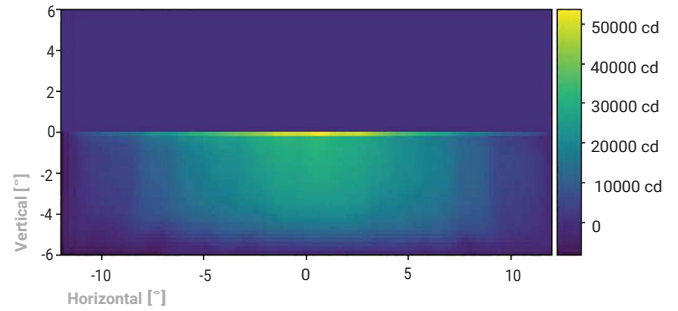
Heated Lens	0 - No 1 - Yes
Infrared	0 - No 1 - Yes
Photo Sensor	0 - No 1 - Yes
Radio Control	0 - No 1 - Yes
Tilt Switch	0 - No 1 - Yes

PHOTOMETRIC PERFORMANCE

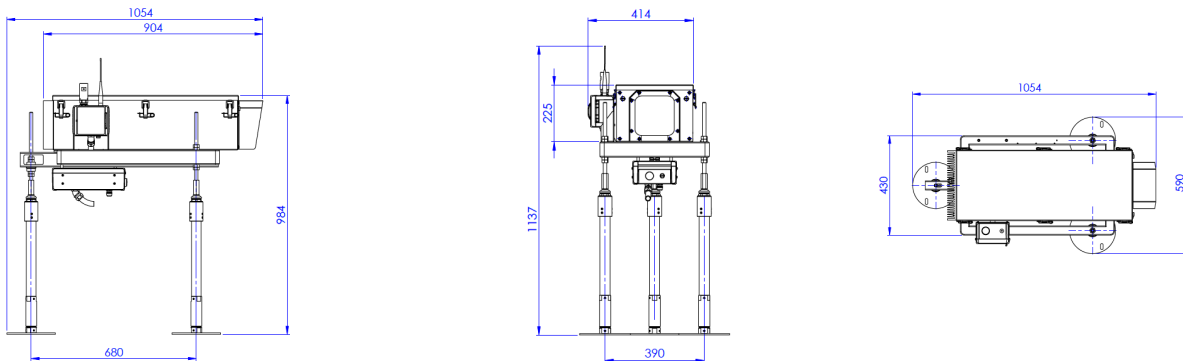
Measured values - white section



Measured values - red section



TECHNICAL DRAWING



SHIPPING DATA

Item	Dimensions of Package (LxWxH)	Gross Weight
LED PAPI (1x LHA)	1070 mm x 980 mm x 500 mm	58 kg