

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



LED TYPE

CCR POWERED

				<p><b>Compliance:</b> 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 single projector PAPI is designed to operate from a constant current regulator (CCR) with a maximum output current of 6.6A.

## TECHNICAL SPECIFICATIONS

<p><b>Optics</b></p> <ul style="list-style-type: none"> <li>• One-projector PAPI unit (optional: double projector)</li> <li>• LED Type</li> <li>• NVG capable (optionally)</li> <li>• Vertical adjustment 0-10</li> <li>• Transition: Better than 3 minutes of arc on beam axis</li> <li>• Maximum power consumption: 80W per unit</li> <li>• Adjustable intensity level: 1, 3, 10, 30, 100%</li> <li>• LED lifespan: 50.000 hrs</li> <li>• Azimuth range: +/- 8 (ICAO) or +/- 10 (FAA)</li> <li>• LED module replacement does not require re-alignment of optical elements</li> </ul>	<p><b>Safety &amp; Reliability</b></p> <ul style="list-style-type: none"> <li>• Real-time monitoring (requires ALCMS)</li> <li>• Short-circuit protection</li> <li>• Emergency ON/OFF button</li> <li>• Tilt-fail detection</li> <li>• Individual PCU per PAPI unit (optionally equipped with double power supply)</li> </ul>								
<p><b>Power Supply</b></p> <ul style="list-style-type: none"> <li>• 6.6 A</li> <li>• 110 - 230 VAC</li> <li>• SE-302 Solar Engine (not included)</li> <li>• S4GA Power Bank (autonomy: 15 hrs for A-PAPI)</li> <li>• 24 VDC</li> </ul>	<p><b>Casing &amp; Components</b></p> <ul style="list-style-type: none"> <li>• Cabinet and body material: stainless steel</li> <li>• Base frame, breakable coupling</li> <li>• Lens heater</li> <li>• L-823 type connector included</li> <li>• PCU included</li> <li>• Dimensions (LxW): 1055 x 980 mm</li> <li>• Height: 980 - 1120 mm</li> <li>• Weight: 47 kg</li> </ul>								
<p><b>Power Control Unit</b></p> <ul style="list-style-type: none"> <li>• Single Power Supply</li> <li>• Double Power Supply (optional)</li> </ul>	<p><b>Compliance</b></p> <table border="1"> <tr> <td data-bbox="815 1518 1043 1697">Photometric</td> <td data-bbox="1043 1518 1505 1697">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</td> </tr> <tr> <td data-bbox="815 1697 1043 1888">Chromaticity</td> <td data-bbox="1043 1697 1505 1888">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 &amp; 4.9.1 TP312, 5th Edition dated 2015, clause 5.3.16.13</td> </tr> <tr> <td data-bbox="815 1888 1043 1933">Multi-lamp PAPI projector</td> <td data-bbox="1043 1888 1505 1933">EASA CS ADR-DSN.M.645</td> </tr> <tr> <td data-bbox="815 1933 1043 2022">Infrared</td> <td data-bbox="1043 1933 1505 2022">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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<p><b>Wireless Control</b></p> <ul style="list-style-type: none"> <li>• Wireless mesh type network</li> <li>• Operating frequency: 868 MHz (optional 2.4GHz or 433 Mhz)</li> <li>• Operating range: up to 1.5 km, relayed</li> <li>• Remote activation: <ul style="list-style-type: none"> <li>• Via UR-101 Handheld Controller</li> <li>• Via UR-201 Control &amp; Monitoring Unit <ul style="list-style-type: none"> <li>• VHF activation (Air-band Radio)</li> </ul> </li> <li>• Via ALCMS Computer Interface (requires UR-201)</li> </ul> </li> <li>• Photoelectric intensity control capable</li> </ul>	<p><b>Accredited Laboratory Testing</b></p> <table border="1"> <tr> <td data-bbox="815 2067 1043 2112">Photometric &amp; Chromaticity</td> <td data-bbox="1043 2067 1505 2112">TÜV Rheinland</td> </tr> </table>	Photometric & Chromaticity	TÜV Rheinland						
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<p><b>Environmental Conditions</b></p> <ul style="list-style-type: none"> <li>• Temperature range: -35 to 55°C (-31 to 131 °F) Optional: -55 to 55°C (-67 to 131 °F)</li> <li>• Ingress protection: IP-65</li> <li>• Resistant to accumulation of rain and snow on lenses surface</li> </ul>									

**ORDERING CODES**

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

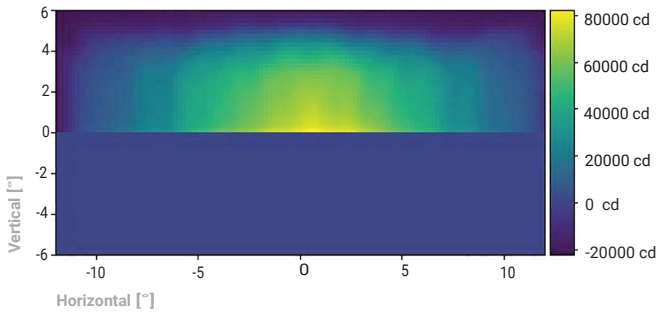
<b>Projector</b>	1 - One projector 2 - Double projector (NATO)
<b>Photometrical Compliance</b>	2 - L-881(L) / Abbreviated PAPI (2x Lighthouse Assemblies) 4 - L-880(L) / PAPI (4x Lighthouse Assemblies)
<b>Power Supply</b>	1 - 6.6 Amp CCR supply (Style B) 2 - 110-230 VAC 50/60 Hz (Style A) 3 - Solar Engine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

**ADDITIONAL FUNCTIONS**

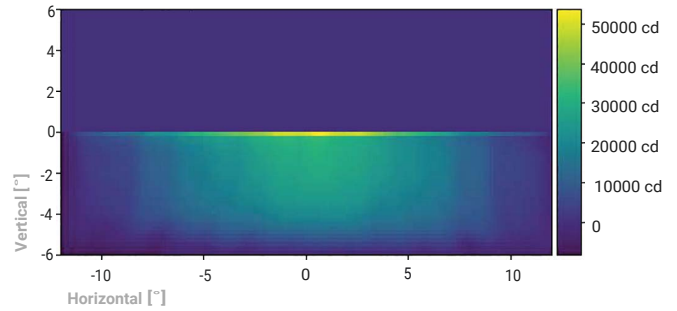
<b>Heated Lens</b>	0 - No 1 - Yes
<b>Infrared</b>	0 - No 1 - Yes
<b>Photo Sensor</b>	0 - No 1 - Yes
<b>Radio Control</b>	0 - No 1 - Yes
<b>Tilt Switch</b>	0 - No 1 - Yes

**PHOTOMETRIC PERFORMANCE**

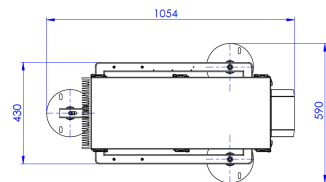
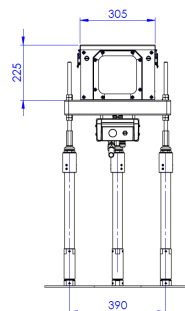
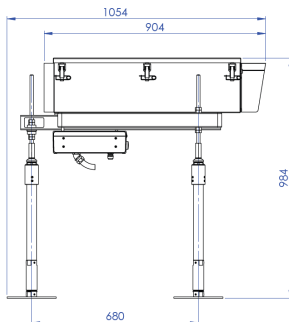
Measured values - white section



Measured values - red section



**TECHNICAL DRAWING**



**SHIPPING DATA**

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