

# LED PAPI / APAPI

## LED Precision Approach Path Indicator

The Avlite LED PAPI is a highly efficient Precision Approach Path Indicator that uses LEDs as a light-source to provide low maintenance, low power consumption and high levels of reliability. The unit operates from 24VDC for energy efficiency and increased safety, and can be supplied with optional solar power supplies, AC input or traditional CCR.



### Patented LED Optics

Innovative optics achieve the industry's lowest power consumption, uniform intensity, and sharpest red/white transition for critically accurate approach slope information to the pilot.

### Field Proven Design

The Avlite LED PAPI was developed by Laser Guidance Inc, a United States designer and manufacturer of high precision aviation lighting products. Now in its 2nd generation, over 100 systems have been deployed globally in regions including the Americas, Europe, Middle East, Asia and Africa.

### Permanent or Portable Operations

Available with permanent frangible or temporary mounting legs, the PAPI is designed to support various usage conditions.

### Designed for Commercial or Military Applications

The Avlite LED PAPI is one of the only PAPIs on the market capable of supporting visual and infrared operational states within the same optic. Switchable by ground operators, the visual PAPI allows pilots to identify approach slope information using traditional means of WHITE/RED light combinations. Infrared mode allows pilots using night vision equipment to approach on the same reference points using a combination of steady and occulting outputs.



### 💰 Cost Effective

- Low power consumption
- Low ongoing maintenance costs

### 📦 Optional Add Ons

- Solar power supplies
- Mounting Solutions

### ✈️ Applications

- Airfield Lighting

### 📈 High Performance

- Fully integratable into an Avlite runway system
- On demand operation

### ✅ Reliable

- No bulbs blown – ever
- Latest LED technology
- No Moving parts

### 📄 Compliance

- Photometrically compliant to ICAO, FAA, STANAG and UFC standards

## Technical Specifications \*\*

### LED PAPI - LED Precision Approach Path Indicator

#### Optics

High power LEDs with proper heat management ensures stable photometrics for life of product

FAA L-880/881 & E-3007 (2 & 4 LHA) compliant

ICAO Annex 14 PAPI (2 & 4 LHA) & APAPI (2 LHA) compliant STANAG 3316 PAPI (2 & 4 LHA) & APAPI (2 LHA) compliant UFC 3-535-01 (4 LHA) compliant

Optical glass lens

#### Physical Characteristics

Height(mm/inches) 737 / 29

Width(mm/inches) 780 / 30.7

Weight(lbs) PAPI-30.5lbs; APAPI-17.5lbs

#### Electrical Characteristics

Current Draw PAPI: 216W; APAPI:45W

#### Power Options

**Solar Station** Solar panels, mounting hardware, batteries, enclosures, air transportable container, AC input for backup

**Generator Kit** Gas or diesel generator, AC output for charging and back up power

**Battery Kit** Batteries & enclosures, AC input for charging and back up power

**AC Only** 100 - 240 VAC 50/60 Hz, 3 & 5 step current input

**CCR** 3 & 5 step current input (65w transformer per LHA)

#### Control Options

**Wired** Wired relay control powerline control

**Wireless** 2.4GHZ Mesh Network

**Photocell** Automatic intensity control day & night

#### Construction

Powder coated aluminum chassis with integrated handles, aviation orange standard, yellow and other colors available

Stainless steel & anodized aluminum hardware

Integrated digital level

#### Temperature

-67 to 131 °F (-55 to +55 °C) - Ambient

-67 to 176 °F (-55 to +80 °C) - Storage

#### Wind Loading

100 mph (45 m/s)

#### Ingress

NEMA 4 & EN 60529 IP 55

#### Intellectual Property

**Patents** U.S. Patent No. US 9,863,601 B2

**Trademarks** AVLITE® is a registered trademark of Sealite Pty Ltd

Ⓒ • Specifications subject to change or variation without notice  
\* Subject to standard terms and conditions

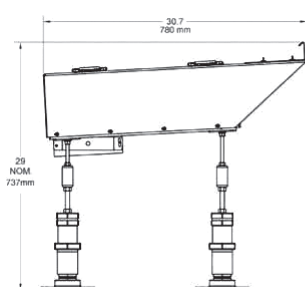
## Standard Configurations

Model	Size	Mounting	Output	Power	Control
PAPI	Abbreviated 2 LHA	Permanent	Visible	Solar Kit	Wired
	Standard 2 LHA	Portable	Visible / IR	Generator Kit	Wireless
	Standard 4 LHA			Battery Kit AC	Photocell

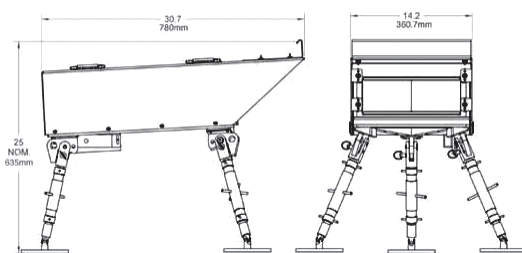
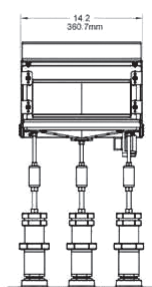
## i Notes

- Tilt switch and heated lens available upon request
- Heated lens with CCR option requires 100W transformer

## Technical Illustration

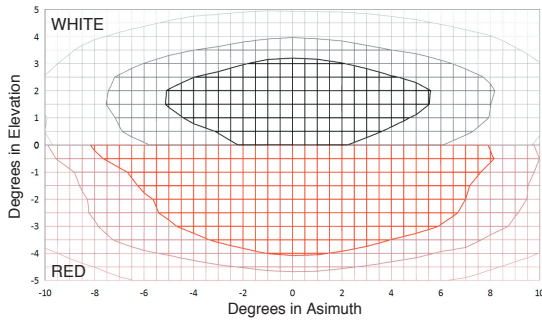


Permanent Mount



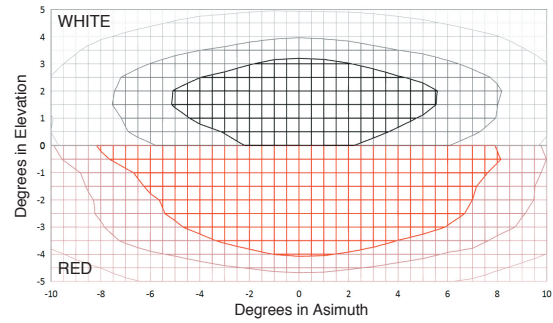
Portable Mount

# Photometric Output



**PAPI Isocandela**

WHITE (cd)	RED (cd)
0-10000	0-10000
10000-20000	10000-20000
20000-30000	20000-30000
30000+	30000+



**APAPI Isocandela**

WHITE (cd)	RED (cd)
0-5000	0-2500
5000-10000	2500-5000
10000-15000	5000-7500
15000+	7500+

# Photometric Chart

## Results - LED PAPI

Sample	CRT1408220953-001	Test	Initial	Powered by	DC	Primary Voltage	24VDC
Type	PAPI	Input	24VDC	Transformer Make	NA	Primary Current	2.251A
Lamp	LED	Color	n/a	Transformer Size	NA	Secondary Current	n/a

White	ICAO Minimum	ICAO Maximum	Red	ICAO Minimum
no req	no req	no req	no req	no req
8000	26000	4000	8000	4000
14000	45500	7000	14000	7000
20000	65000	10000	20000	10000
30000	97500	15000	30000	15000

VERTICAL DEGREES	ICAO HORIZONTAL DEGREES																							
	-11.0	-10.0	-9.0	-8.0	-7.0	-6.0	-5.0	-4.0	-3.0	-2.0	-1.0	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	
5.0	3260	4192	5648	7104	8357	9872	11482	12804	13678	14311	14590	14768	14894	14975	15043	15105	15161	15211	15256	15305	15348	15395	15436	15481
4.5	4183	5408	7164	8981	10615	12421	14351	15965	17104	17753	18145	18249	18296	18335	18368	18396	18419	18437	18451	18461	18468	18473	18476	18478
4.0	4972	6450	8495	10662	12567	14622	16859	18780	20099	21038	21608	21833	21933	22055	22197	22328	22451	22566	22674	22774	22868	22956	23039	23117
3.5	5654	7340	9697	12268	14569	16706	19045	21136	22667	23875	24830	25199	24533	23533	22260	20535	18666	16397	14377	12319	10374	8530	6784	5233
3.0	6304	8220	10814	13799	16519	19003	21364	23659	25388	26833	28181	28899	26047	26650	25078	22914	20950	18584	16373	14101	11913	9718	7669	5840
2.5	6698	8812	11513	14766	17984	20912	23474	25797	27626	29449	31083	32016	31113	29476	27412	25102	23059	20573	18324	15858	13264	10693	8470	6533
2.0	7183	9457	12298	15690	19326	22439	25269	28110	30074	31882	33568	34907	33352	31585	29344	26718	24736	22285	19795	17249	14342	11518	9170	7033
1.5	7386	9763	12748	16203	19907	23189	26511	29716	31902	33948	35385	35844	34729	33198	31095	28555	26274	23638	21236	18485	15362	12218	9782	7633
1.0	7497	9927	12894	16252	20073	23403	27085	30641	32857	35163	36666	36606	35397	34259	32452	29814	27640	24998	22903	19249	16191	12942	10153	7753
0.5	7504	9923	12821	16059	19918	22997	26462	30113	32429	34780	36275	36296	35349	34559	33154	30548	28188	25583	22685	19552	16660	13400	10759	8303
0.0	4875	6004	7436	9003	10562	11932	13101	14503	15475	16553	18081	18436	19704	19936	19106	18685	15862	14731	12174	10378	8935	7187	5904	4808
-0.5	4658	5996	7494	9467	11042	12394	13680	14972	16035	17367	18029	18356	18288	17790	16778	15375	14050	12777	11393	10016	8860	7408	6038	4938
-1.0	4529	5963	7544	9480	11039	12412	13690	14918	15936	17254	17977	18350	18308	17821	16806	15353	13944	12686	11352	10006	8822	7254	5894	4833
-1.5	4329	5694	7196	8964	10419	11655	12784	13939	14803	15995	16729	17123	17090	16616	15687	14358	13121	12001	10817	9829	8432	6981	5481	4581
-2.0	4090	5388	6686	8273	9711	10897	11858	12883	13692	14669	15314	15649	15507	15135	14245	13116	12131	11165	10040	8913	7650	6148	4811	3911
-2.5	3815	4948	6221	7656	9034	10255	11126	12145	12941	13855	14488	14827	14751	14371	13469	12488	11483	10463	9584	8360	6999	5648	4466	3611
-3.0	3652	4856	6059	7329	8586	9765	10635	11711	12524	13479	14221	14678	14627	14094	13124	12089	11156	10194	9112	7937	6646	5391	4299	3499
-3.5	3445	4579	5837	6984	8162	9051	10200	11365	12284	13229	13940	14461	14559	14011	12966	11905	10927	9868	8795	7676	6505	5402	4298	3498
-4.0	3117	4258	5589	6750	7876	9047	9813	10992	11934	12906	13704	14334	14485	13886	12689	11599	10598	9493	8448	7396	6292	5202	4173	3297
-4.5	2707	3818	5091	6204	7220	8247	8891	9912	10778	11800	12752	13449	13545	12953	11859	10841	9871	8836	7878	6932	5883	4901	3919	3297
-5.0	2234	3155	4260	5196	6131	6982	7462	8305	9036	9998	10878	11510	11587	11082	10064	9158	8303	7490	6730	5949	5030	4144	3297	2707

All Measurements Are In Candelas



LED APAPI

## HOW TO ORDER

AV-PAPI/APAPI  
Precision Approach Path Indicator

Product No.: AV-PAPI [?] [??] [??] [??]\*

Standard/Size: A = ICAO Abbreviated-PAPI 2-LHA  
2 = FAA 2-LHA  
4 = FAA/ICAO 4-LHA

Mounting: PO = Permanent  
P1 = Portable

Input Voltage: UM = 120-240VAC  
24 = 24VDC  
66 = 6.6A Constant Current

Options: IR = Infrared  
RF = Radiofrequency Control  
HL = Heated Lens  
TS = Tilt Switch  
PC = Photocell Control

\*Note: Provide required options and exact part number will be provided at time of quote.