

Multi

ELECTRIC



The Quality Approach

PAPI

Precision Approach Path Indicator



COMPLIANT WITH:

FAA AC150/5345-28, L-880 and L-881
FAA-E-2756
ICAO - Annex 14
USAF - AFJMAN 32-1076
US ARMY – TM5-811-5
NATO - STANAG 3316
TP312 Rev.5

GENERAL DESCRIPTION

The Multi Electric 3rd Generation PAPI System consists of a three lamp Light Housing Assembly as the main component. Additional components include Power and Control Unit, Series Circuit Lamp Shorting Devices with integral Tilt Switch and Aiming Instrument Set.

FEATURES CHECKOFF

- ✓ **Low Power Consumption** – The Multi Electric PAPI is a low power consumption, energy efficient system. Each Lamp Housing Assembly draws approximately 300Watts as apposed to others 400 to 600 Watt consumption.
 - ✓ **Physical Size** –The size and weight of the Multi Electric PAPI Lamp Housings is up to 30% less than other systems.
 - ✓ **Tool-Less Maintenance** – Most routine service components can be changed without the use of hand tools.
 - ✓ **Universal Mounting** – The Lamp Housing Assembly can be mounted on wide range of 3 leg mounting patterns. Standard mounting is on a 22" across the front and 16" front to back. Four additional mounting configurations are available for retrofit on most 3-leg PAPI existing foundations.
 - ✓ **Experience** – Support of one of the oldest and most experienced companies in the United States for approach lighting systems.
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ORDERING INFORMATION

Basic PAPI System:

5900-2 X X - XX

Type: L-880 - 0
L-881 - 1

Style: A - Voltage Powered - 0
B - Series Circuit - 1

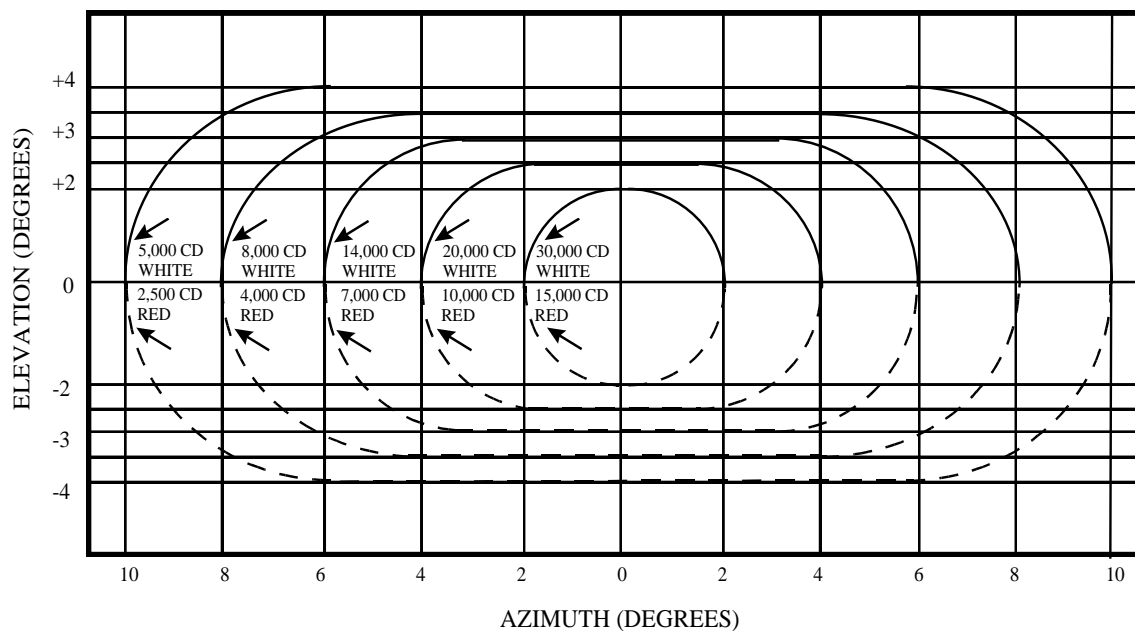
Option: No-Shorting Device, Style B - 10
Night Sentinel, Style A (series circuit control) - 20
Long Mount (28" Tee Bar) - 01

Example:

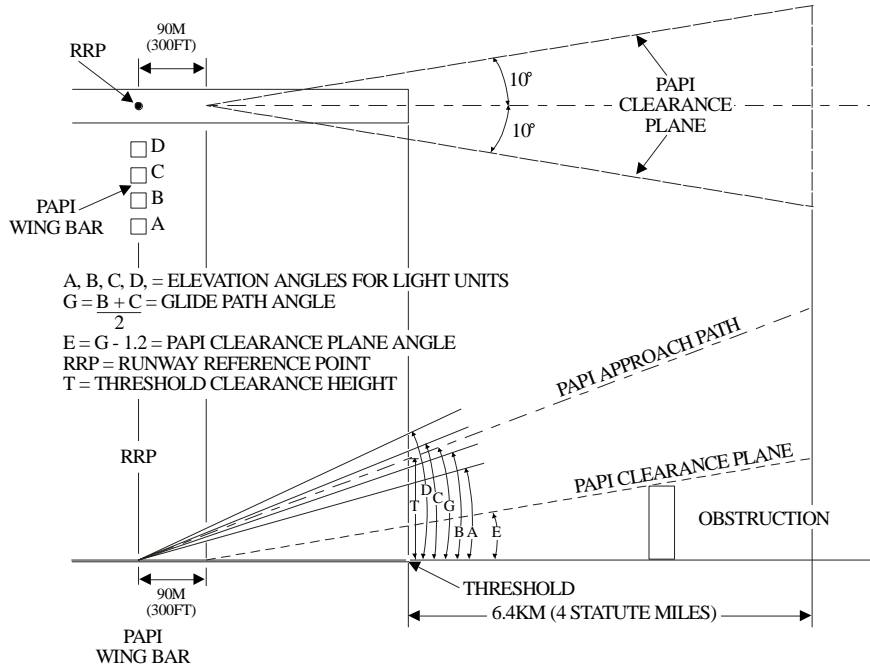
- 1) 4 LHA L- 880 Voltage Powered PAPI on standard mount — 5900-200
- 2) 2 LHA L- 881 Series Circuit with Shorting Device Long Mount — 5900-211-01
- 3) 4 LHA L- 880 Series Circuit without shorting device on long mount — 5900-201-11
- 4) 2 LHA L- 881 Voltage Powered Standard Mount with Night Sentinel — 5900-210-20

Other options are available. Contact factory for more information.

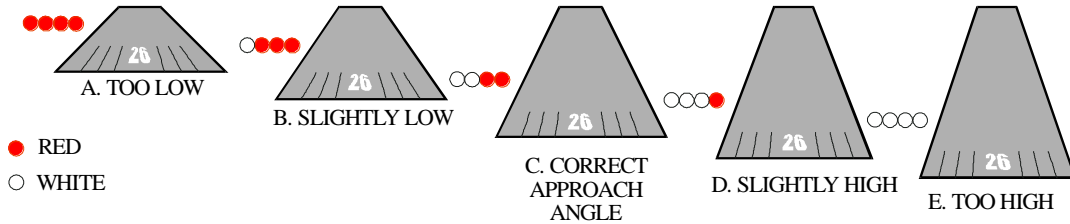
PHOTOMETRICS



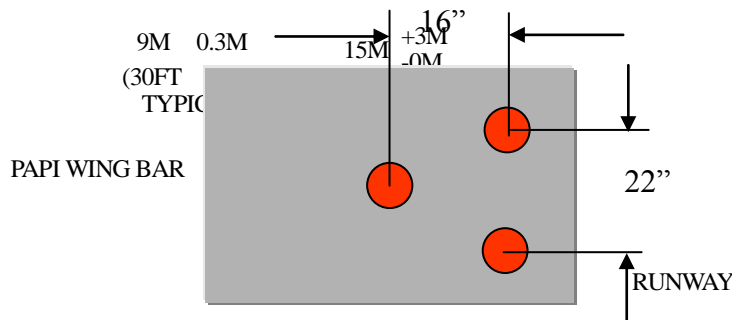
TYPICAL AIMING CRITERIA



TYPICAL LIGHT PATTERNS AS SEEN ON APPROACH



PAPI PATTERNS AS SEEN FROM THE APPROACH ZONE



Standard Mounting Footprint 22in. W 16in. L

L = DISTANCE OF PAPI WING BAR FROM RUNWAY THRESHOLD

= 285M (950FT) FOR IDEAL 3 DEGREE APPROACH SLOPE ANGLE (954 FEET GIVES A 50 FOOT EYE-TO-THRESHOLD HEIGHT - 19/1 RATIO)

= PAPI LIGHT SOURCE UNIT

THRESHOLD

SPECIFICATIONS

Electrical:

Style A Input Power

Voltage	Nominal 240 / 120 VAC 50-60Hz
Current	L-880 Less than 5.5 Amps L-881 Less than 3.0 Amps

Style B

6.6A – 315W per LHA Secondary Load
6.6A or 20A 330W Maximum Regulator Load

Optics:

Split Beam White over Red
Transition of less than 3 min of arc.
Optical Quality Glass Bi-Convex Lens Ground Red Filters

Operating Temperature:

– 55°C to + 55°C (-67°F to + 168°F) Standard

SPARE / RENEWAL PARTS

Part Number	Description	Part Number	Description
5903-100A	Lamp Housing Style A	9637-05	Lamp
5903-100B	Lamp Housing Style B	961-AT	Frangible Coupling – 2in
5903-100ICAO	Lamp Housing - ICAO	964-P	Frangible Coupling – 1.5in
5920-101	Power Control Unit	5556-19	Floor Flange
5900-77	Tilt Switch	5900-158	Leg Cap Assembly
5910-185	Master Control PCB - Style A	5903-185	Tilt Sensor and Lamp Control PCB - Style B
5900-186	Tilt Driver PCB – Style A	5903-196	Tilt Buffer – Style B
5920-200	Night Sentinel PCB – Style A	5900-166	Aiming Instrument with Carrying Case
5900-105	Red Filter	5900-09	Aiming Instrument
5910-10	Photocell	5910-06	Circuit Breaker
5900-150	Transformer	5910-04	Contactore