



# **AMGLO KEMLITE LABORATORIES**

## **SPECIALTY LAMP MANUFACTURER**

### **AIRPORT LIGHTING CATALOGUE**



**“MAKING LIGHT BEHAVE SINCE 1935”**

# HISTORY

While Amglo's current management team has been in place since 1978, its foundation has been "Making Light Behave" since 1935. Amglo's success is attributed to its continued investment in lamp technologies for specific industries that require a custom-engineered product. Amglo entered the Airfield Lighting market early with its capability of manufacturing specialty Xenon Flash Lamps. In the late 1980's, Amglo began manufacturing its specialty Halogen Lamps at the Largo, Florida plant, and early-on supplied the FAA directly with Amglo's Flame-Sealed PAR-Lamps, passing rigorous Intertek Testing Services, Inc. testing. In addition, to ensure full customization of the lamp product, Amglo continued to invest in technology and in the manufacture of its own lamp filaments and production equipment.

In the late 1990's, Amglo invested in the **Metal Halide (HID) technology**. Combining this with its **Halogen** manufacturing and assembly capabilities in Largo, Florida and Shenzhen, China; and its **Xenon Flash Lamp** manufacturing and assembly capabilities in Bensenville, Illinois and Juarez, Mexico, Amglo is the only manufacturer in the world supplying Specialty Airport Lighting incorporating these three technologies.

To ensure production of the highest quality lamp product, Amglo's laboratory is equipped with state-of-the-art testing equipment for all photometric and spectral light measurements. Vibration and environmental tests are performed to replicate actual field conditions of Airfield Lighting.

## HALOGEN AIRFIELD LAMPS PRE-FOCUS PK30D, CABLE CONNECTION, DCR MADE IN USA



Figure 1



Figure 2



Figure 3

### HALOGEN AIRFIELD LAMPS PRE-FOCUS PK30D, CABLE CONNECTION , OCR

Fig	ANSI Description	Philips	OSRAM	GE	Amglo Part Number	Current A	Wattage W	Base	Connector	luminous flux (LM)	AVG Life (hrs)	Filament	LCL MM
1	6.6A 30W PK30D				AHQ4V-6.6A-30WJ-90WX	6.6	30	PK30D	Male	400	1,000	C-8	20
1	6.6A 30W PK30D				AHQ4V-6.6A-30WJ-90WY	6.6	30	PK30D	Female	400	1,000	C-8	20
1	6.6A 45W PK30D	6303 6131	64317 C 64318 Z	80583	AHQ4V-1G-6.6A-45WJ-90WX	6.6	45	PK30D	Male	800	1,000	C-8	16
1	6.6A 45W PK30D	6130	64318 A 64319 A	80587	AHQ4V-1G-6.6A-45WJ-90WY	6.6	45	PK30D	Female	800	1,000	C-8	16
1	6.6A 45W PK30D	6115 6133	64319 Z	80583	AHQ4V-6.6A-45WJ-90WX	6.6	45	PK30D	Male	800	1,000	C-8	20
2	6.6A 65W PK30D	6304	64328 HLX Z		AHQ4V-6.6A-65WN-90WX	6.6	65	PK30D	Male	1,450	1,000	C-6	20
2	6.6A 65W PK30D	6125	64328 HLX A		AHQ4V-6.6A-65WN-90WY	6.6	65	PK30D	Female	1,450	1,000	C-6	20
2	6.6A 100W PK30D	6116 6122 6312	64342 HLX Z 64342 HLX C	80584	AHQ4C-6.6A-100WT-90WX	6.6	100	PK30D	Male	2,700	1,000	C-bar 6	20
2	6.6A 100W PK30D	6120 6121	64341 HLX A	80588	AHQ4C-6.6A-100WT-90WY	6.6	100	PK30D	Female	2,700	1,000	C-bar 6	20
2	6.6A 150W PK30D	6392	64361 HLX Z	80585	AHQ4C-6.6A-150WQ-90WX	6.6	150	PK30D	Male	3,600	1,000	C-bar 6	20
2	6.6A 150W PK30D	6118	64361 HLX A	80589	AHQ4C-6.6A-150WQ-90WY	6.6	150	PK30D	Female	3,600	1,000	C-bar 6	20
2	6.6A 200W PK30D	6117 6313	64382 HLX C	80586	AHQ4H-6.6A-200WP-90WX	6.6	200	PK30D	Male	4,800	1,000	CC-6	20
2	6.6A 200W PK30D	6139	64382 HLX A	80590	AHQ4H-6.6A-200WP-90WY	6.6	200	PK30D	Female	4,800	1,000	CC-6	20
3	Q45T4/CU45DCR			14473	AHQ4H-6.6A-45WF-22CM	6.6	45	DCR	DC Bay	845	500	C-6	28
3	Q6.6AT4/200DCR			23860	AHQ4H-6.6A-200WR-22CM	6.6	200	DCR	DC Bay	5,150	500	CC-6	28

- Remarks:**
- Amglo manufactures a variety of PK30D lamps to specific customer requirements.
  - A variety of connectors are available for specific OEM requirements
  - High temperature resistant cable is used on all lamps.
  - Cable lengths vary per customer requirements

# HALOGEN AIRFIELD LAMPS - PAR FLAME SEAL LAMPS

MADE IN USA



Figure 1



Figure 2

Fig	ANSI Description	GE	Amglo Part Number	Current A	Wattage W	Base	Candela kcd	Average Life (hrs.)	Filament
2	Q6.6A / PAR56 / 3	33279	AHQH56-6.6A-200W-CS	6.6A	200	Screw Terminal	200,000	1,000	CC-6
1	Q6.6A / PAR56 / 2	38271	AHQH56-6.6A-200W-PM	6.6A	200	Mogul End Prong	16,000	1,000	CC-6
2	Q20A / PAR56 / 2	32861	AHQH56-20A-300W-CS	20A	300	Screw Terminal	200,000	500	C-6
1	Q20A / PAR56 / C	15482	*AHQH56-20A-300W-PM	20A	300	Mogul End Prong	28,000	500	C-6
2	Q20A / PAR56 / 3	23863	AHQH56-20A-500W-CS	20A	500	Screw Terminal	330,000	500	CC-6
1	Q20A / PAR56 / 1 / C	15485	*AHQH56-20A-500W-PM	20A	500	Mogul End Prong	55,000	500	CC-6
1	Q6.6A / PAR64 / 2P	13224	AHQH64-6.6A-200W-FM	6.6A	200	Mogul End Prong	20,000	2,000	CC-6

Remarks: • \* Product is supplied and qualified directly with the FAA. • Amglo uses the highest quality glass for special flame sealing.

# HALOGEN AIRFIELD LAMPS - BI-PIN

MADE IN USA



Figure 1



Figure 2



Figure 3

Fig	ANSI / Description	Philips	OSRAM	GE	Amglo Part Number	Current A / V	Wattage	Base	Luminous flux (LM)	Average Life (hrs.)	Filament	LCL MM
1	50-12V/20W				FHQ3H-12V-20WN-39CM	12V	20	G5.3	225	2,000	C-6	28.5
1	EXL	6112LL	64322	11478	AHV-6.6A-30WD-40CM	6.6A	30	GZ9.5	375	1,000	C-8	25.4
1	EXM	6134LL	64320	11482	AHV-6.6A-45WH-40CM	6.6A	45	GZ9.5	750	1,000	C-8	25.4
2	EVV	6128	58798	10099	AHQ4C-6.6A-120WS-49CM	6.6A	120	GZ9.5	3,150	500	C-bar-6	39
2	EWR	6292	64354	11427	AHQ4C-6.6A-150WT-49CM	6.6A	150	GZ9.5	4,100	500	C-bar-6	39
2	EWR *LL	6292	64354	11427	AHQ4C-6.6A-150WQ-49CM	6.6A	150	GZ9.5	3,600	1,000	C-bar-6	39
2	EZL	6372LL	58750	15243	AHQ4C-6.6A-200WR-49CM	6.6A	200	GZ9.5	5,000	750	C-bar-6	39
3	6.6A 45W	6123	64321		AHV-6.6A-45WH-00	6.6A	45	G6.35	840	1,200	C-8	33
3	6.6A 100W	6343	64346		AHQ4C-6.6A-100WP-00	6.6A	100	G6.35	2,300	1,200	C-bar-6	33
3	6.6A 200W	6373	64386		AHQ4C-6.6A-200WR-00	6.6A	200	G6.35	4,700	1,200	C-bar-6	33

Remarks: • Other Bi-pin lamp types are available and can be manufactured to customer lamp specifications. • \* LL refers to Long Life lamps.

# HALOGEN AIRFIELD LAMPS - MR11 / MR16 TYPE

MADE IN USA



Figure 1

Fig	ANSI Description	Philips	OSRAM	Anglo Part Number	Current A	Wattage W	Base	Connector	Candela kcd	Average Life (hrs.)	Filament
1	6.6A 40W MR11	6104	64333 C	AHQ11-6.6A-40WA-WCX	6.6	40	Cable	Male	10,500	1,500	C-8
1	6.6A 40W MR11	6110	64333 A	AHQ11-6.6A-40WA-WCY	6.6	40	Cable	Female	10,500	1,500	C-8
1	6.6A 40W MR11	6102	64333, B	AHQ11-6.6A-40WA-WCRY	6.6	40	Cable	Female Round	10,500	1,500	C-8
1	6.6A 48W MR16	6138	64338 AC	AHQ16-6.6A-48WP-WCX	6.6	48	Cable	Male / Female	25,000	1,000	C-8
1	6.6A 48W MR16	6106	64337 C	AHQ16-6.6A-48WP-WCX	6.6	48	Cable	Male	25,000	1,500	C-8
1	6.6A 48W MR16	6107 6109 6129	64337 B	AHQ16-6.6A-48WA-WCRY	6.6	48	Cable	Female Round	25,000	1,500	C-8
1	6.6A 48W MR16	6101	64337 A	AHQ16-6.6A-48WA-WCY	6.6	48	Cable	Female	25,000	1,500	C-8
1	6.6A 60W MR16			AHQ16-6.6A-60WN-WCX	6.6	60	Cable	Male	32,000	500	C-6
1	6.6A 60W MR16			AHQ16-6.6A-60WN-WCY	6.6	60	Cable	Female	32,000	500	C-6
1	6.6A 62W MR16	6142		AHQ16-6.6A-62WN-39M	6.6	62	Cable	GX5.3	22,500	1,000	C-6
1	6.6A 62W MR16	6141	64336 A	AHQ16-6.6A-62WN-WCY	6.6	62	Cable	Female	22,500	1,000	C-6
1	6.6A 62W MR16			AHQ16-6.6A-62WN-WCX	6.6	62	Cable	Male	22,500	1,000	C-6
1	6.6A 105W MR16	6108	64339 C	AHQ16-6.6A-105WR-WCX	6.6	105	Cable	Male	30,000	1,000	C-8
1	6.6A 105W MR16	6103 6105	64339 A	AHQ16-6.6A-105WR-WCY	6.6	105	Cable	Female	30,000	1,000	C-8
1	6.6A 105W MR16		64339 B	AHQ16-6.6A-105WR-WCRY	6.6	105	Cable	Female Round	30,000	1,000	C-8
1	6.6A 150W MR16			AHQ16-6.6A-150WM-WCY	6.6	150	Cable	Female	30,000	1,000	C-8
1	6.6A 150W MR16			AHQ16-6.6A-150WM-WCX	6.6	150	Cable	Male	30,000	1,000	C-8

- Other MR16 types are available per customer request
- A variety of connectors are used for specific OEM's
- High-temperature resistant cable is used on all lamps
- Cable length varies per customer requirements

# XENON AIRPORT RUNWAY FLASHLAMPS

MADE IN USA

\*FOR ALSE - 2/SSALR, MALS/MALSR, ODALS AND REIL SYSTEMS



Figure 1



Figure 2



Figure 3

Fig	TYPE	Anglo Part Number	Max Voltage	Min Voltage	Nom. Voltage	Joules	Flashes (sec)	Life (flashes)	Watts	Min. Trigger
1	ALSE2/SSALR,FA-10048, MALS/ MALSR, FA-10097,98, FA9629, 30: REIL: FA 10229, FA-10096,1 24,125, FA-9628	HVI-734Q Par 56	2250 V	1800 V	2000 V	60 W-S	120 / minute	7,200,00	120W	10.0 KV
2	REIL: FA-87 67,SYLVA NIA CD 2001-A	R-4336	2200 V	1800 V	2000 V	60 W-S	120 / minute	3,600,000	120W	9.0 KV
3	MALS/MALSR,FA-9994, FA9877, FA9425, 26	H5-801Q	2300 V	1900 V	2000 V	60 W-S	120 / minute	18,000,000	118W	10.0 KV

# AMGLO NEW PRODUCT INTRODUCTION

## 6.6A 105W MR16 AIRFIELD LAMP

Amglo is pleased to announce that with our special manufacturing capabilities, we have virtually eliminated cement out-gassing in Amglo-manufactured 105W 6.6A MR16 lamps.



**MADE IN USA**



Historically, the 105W 6.6A MR16 lamp had exhibited reduced operating lamp life in the OEM's Inset Runway Lighting equipment. It was revealed that temperatures in the fixtures holding two lamps or more during lamp operation were measured in excess of 350°C. Under these high temperatures, the cement holding the lamp burner in the reflector would out-gas onto the lamp reflector and the lens in the light fixture.

This phenomenon results in significant issues for:

- **OEM's** when equipment does not perform to the required standard.
- **Airports** incurring excessive costs in maintenance and spare parts (lamps and lenses inside the fixture).
- **Aircrafts** since most are equipped with enhanced flight vision systems for low visibility landings and taxiing operations, which are dependent upon the IR transmissions the lamps produce.

Using a new ceramic material, along with special manufacturing processes, Amglo virtually eliminated the out-gassing on the lamp reflector and fixture lenses. Amglo's comparative testing in the OEM fixture showed significant improvement in lamp life, **up to 3 times longer, than similar competitors' products.**



# Amglo Kemlite Laboratories

A WORLDWIDE LEADER IN ELECTRONIC GAS DYNAMICS SINCE 1935

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