



Aircraft Lighting Catalog



AMGLO

Aircraft Lamps



When it comes to keeping aircraft in the air Amglo has the answer. Amglo's offers highly engineered and reliable exterior lamps for all aircraft types with the goal of reducing operator cost. Amglo's long history in the aviation lighting began with earliest xenon flashlamps designs for aircraft recognition lights. All Amglo lamps are designed and certified in conformance to the ANSI (American National Standard Institute) specification and are also sold as a FAA-PMA approved part ready to export with assigned 8130-3 tags. Additional benefits include: long lamp life reduces operating costs, line processes to eliminate glass stress, reduced vibration ensuring durability, consistent light output over the life of the lamp for improved safety, vibration resistant improves life of product, and 100% Q.C. Inspection.



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Q5559



Amglo has engineered a longer lasting landing light for Aircraft use. With benefits over the typical landing light Q4559X. The design of the Amglo Q5559 encompasses better vibration characteristics and longer life.

- Lowest cost of ownership
- Outperforms legacy Q4559X by 200 hours
- Filament design exceeds ANSI life requirements producing consistent light output that is maintained throughout lamp lifetime ensuring safety requirements are met.
- Specialized filament process that prevents sag and arc-outs
- Minimized weight of the halogen capsule assembly reduces cyclic vibration failures
- Offline annealing process prevents lens cracking
- Drop-in replacement uses the same fixtures as the Q4559X
- Boeing IPC Approved

Q5559

BOEING IPC APPROVED

SPECIFICATIONS

Lamp type	Sealed Beam
Bulb	PAR64
Base	Screw Terminals
Primary Application	Aircraft
Filament	CC-6
Product Technology	Halogen
Rated Life (NOM)	300 hrs.

PHOTOMETRIC CHARACTERISTICS

Beam Spread - Horizontal	11.0 - 10.0 %
Beam Spread - Vertical	7.5 - 10.0 %
Center Beam Candlepower (CBCP) (NOM)	650,000
Max. Beam Candlepower (MBCP) (MAX)	650,000

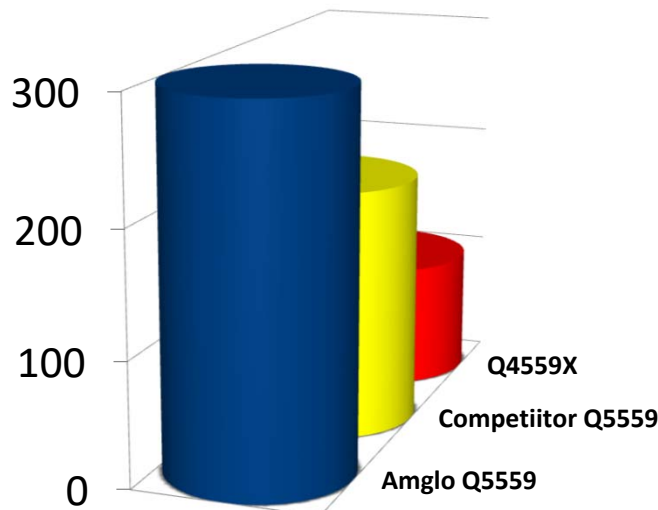
ELECTRICAL CHARACTERISTICS

Wattage (NOM)	600
Voltage (NOM)	28

DIMENSIONS

Maximum Overall Length (NOM)	3.7500 in (95.2 mm)
Bulb Diameter (DIA) (NOM)	8.0000 in (203.2 mm)

Hours





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Q5559

AMGLO VS. COMPETITOR TEST REPORT

Vibration Table Frequency Range: 15 – 2,000 Hz G-Force (G): 2.7 RMS

Amglo's Q4559X Aircraft Lamps are made to better withstand the intense mechanical shock and vibration that an aircraft landing lamp experiences during operation. This is achieved using Amglo's special filament design technology and a tripod-mount of the inner quartz burner.

Test Methodology: Five Amglo-made and Five Competitor-made Q4559X's were tested on Amglo's vibration table for 3 minutes or until failure. PARs are mounted in Amglo's custom-designed fixture where the filament is positioned in the Horizontal plane. All PARs are monitored for failure by measuring open and shorted circuits, broken, distorted, or shorted filaments, and broken or damaged supports. Each batch of Amglo's Aircraft lamps are vibration-tested and monitored to ensure the highest quality lamp and longest operating flight hours are achieved by our customers.

Vibration Test Results

Lamp No	Make	Voltage	Amps	Vibration Level 2.7G (RMS)	Comments
1	Amglo Q5559	28V	20.1A	No Filament Distortion	PASS
2	Amglo Q5559	28V	19.6A	No Filament Distortion	PASS
3	Amglo Q5559	28V	20.0A	No Filament Distortion	PASS
4	Amglo Q5559	28V	19.8A	No Filament Distortion	PASS
5	Amglo Q5559	28V	19.9A	No Filament Distortion	PASS
1	Competitor	28V	21.3A	Distorted Filament: 1 min	FAIL*
2	Competitor	28V	20.7A	Distorted Filament: 1min 18sec	FAIL*
3	Competitor	28V	20.9A	Distorted Filament: 17 sec	FAIL*
4	Competitor	28V	21.4A	Broken Filament: 28 sec	FAIL
5	Competitor	28V	21.3A	Broken Filament: 26 sec	FAIL



Filament after 3 mins: No Distortion



*Failure defined by voltage loss and insufficient light output.

(Left) Distorted Filament after 1 min 18 secs. (Right) Broken Filament after 26 secs.



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Q5551



Q5551:

Amglo engineering has developed a halogen version of the 4551 common taxi light. Offering better vibration characteristics and 12 times longer life than the 4551 lamp offered in the market today.

- Stretched filament technology used to meet extreme beam angle requirements
- Refined filament support to ensure vibration resistance
- Exceeds ANSI life requirements
- Light output meets ANSI safety requirements
- Fit, Form and function drop-in replacement for 4551
- Q5551 offers 12 times the rated life compared to the incandescent 4551
- Boeing IPC Approved

Q5551

BOEING IPC APPROVED

Specifications

Lamp type	Sealed Beam - PAR
Bulb	PAR46
Base	Screw Terminals
Primary Application	Aircraft
Filament	CC-6
Product Technology	Halogen
Rated Life (NOM)	300 hrs

PHOTOMETRIC CHARACTERISTICS

Beam Spread - Horizontal	48.0 - 10.0 %
Beam Spread - Vertical	12.0 - 10.0 %

Max. Beam Candlepower (MBCP) (MAX) 60000

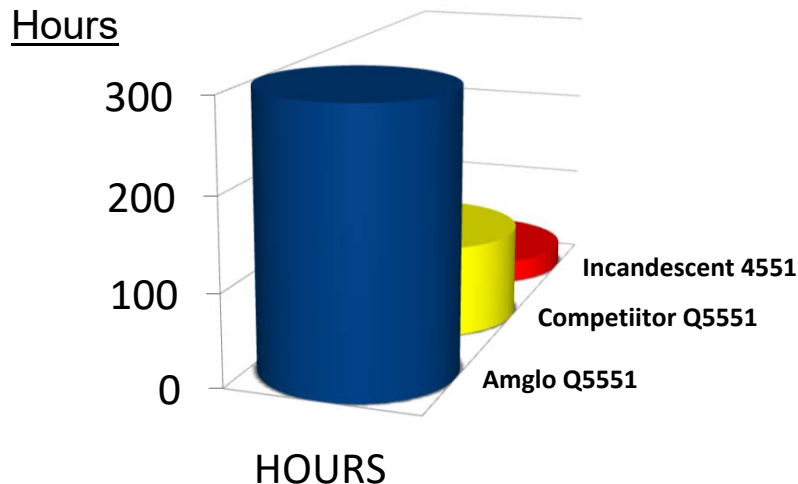
ELECTRICAL CHARACTERISTICS

Wattage (NOM)	250.0
Voltage (NOM)	28.0

DIMENSIONS

Maximum Overall Length (MOL) (NOM) 3.3200 in (84.3 mm)

Bulb Diameter (DIA) (NOM) 5.7500 in (146.0 mm)





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Sealed Beam Lamps

ANSI #	VOLTS	WATTS	INITIAL BEAM CANDELPPOWER	AMGLO RATED LIFE
Q5559	28	600	650,000	300
Q4559X	28	600	765,000	100
Q5551	28	250	60,000	1,000
Q5554	28	450	70,000	1,000
Q5587	28	250	40,000	250
Q5596	28	250	150,000	250
Q4551	28	250	75,000	250
Q4553	28	250	300,000	250
Q4554	28	450	65,000	100
Q4566	28	450	150,000	1,000
Q4567	28	250	110,000	300
Q4591	28	100	90,000	250
Q4597	28	450	16,000	1,000
Q4598	28	250	12,000	300
Q4626	28	150	25,000	750
Q4631	13	250	85,000	500
Q4632	13	250	75,000	500
Q4681	28	450	310,000	50
4537	13	100	200,000	25
4551	28	250	75,000	25
4553	28	250	300,000	25
4580	28	450	400,000	10
4626	28	150	25,000	300



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Aircraft Navigation Lamps



(ANSI) P/N INDUSTRY	VOLTS	WATTS	MSCP LUMENS	RATED LAB LIFE
AK-HLK64621	12	100	2750	2000
9203	28	35	630	2000
1924X	28	150	3000	1000
ERF/1994	14	50	95	150
ERD/1992	14	35	64	150
ESG/1999	28	25	40	125
ERC/1991	14	25	40	200



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