



WHELEN AEROSPACE TECHNOLOGIES

2021 PRODUCT CATALOG

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REV A JULY 2021



Sebastian, FL Facility



Chester, CT Facility



Charlestown, NH Facility

Improving performance & safety

FAA APPROVED OVER 65 YEARS



Whelen Aerospace Technologies represents a rich history in technological innovations and is now positioned as the global leader in the aerospace lighting market. For over 65 years, we've had exceptional milestones that demonstrate our dedication to constant innovation, and we've never been more excited for the future.

Origins

- Whelen Engineering
Founded 1952 - George W Whelen III invents the first rotating aircraft "anti-collision" beacon in his garage in Deep River, Connecticut.
- LoPresti Aviation
Founded 1991 - Roy LoPresti, an aeronautical engineer and ex-Air Force pilot, founds LoPresti Aviation in Sebastian, Florida.

A Merger of Equals

- Whelen Aerospace Technologies (WAT)
Founded 2019 - Whelen Engineering's Aviation Division and LoPresti Aviation officially merge to become Whelen Aerospace Technologies.

About Whelen Aerospace Technologies

Whelen Aerospace Technologies is the global leader in high-end lighting products for the aerospace industry.

Our experienced staff designs, engineers, and manufactures high-quality products that provide safety, visibility, and recognition for aircraft across all platforms.

Our design engineers work closely with OEM and service provider networks to design high-performance products that enhance the pilot experience, as well as provide safety of flight.

As an FAA-approved production holder, Whelen Aerospace Technologies owns hundreds of STCs for aircraft landing, taxi, anti-collision and position lights. Our in-house composite shop produces a wide variety of STC and PMA approved speed modifications for a number of general aviation aircraft.

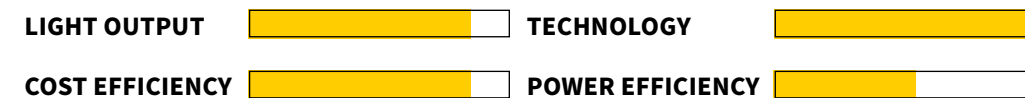
Our expansive product line is sure to provide a solution for pilots and owners alike, based on their individual needs.

OUR LIGHTING TECHNOLOGIES

As LED lights gained popularity in recent years, the most common word to benchmark the performance of lights has been “Lumens.” Although Lumens are important, there are many other factors to consider when shopping for LED and HID lighting for your aircraft. Lumens, Lux, Candela are all forms of light measurement that should be considered when deciding which types of aircraft lights will suit your needs best. We’ve taken our 56+ years of light engineering, design, and manufacturing and created this light technology page to help you understand your options, choices, and learn why Whelen Aerospace Technologies, or WAT, stands out from any other lighting company on the market.

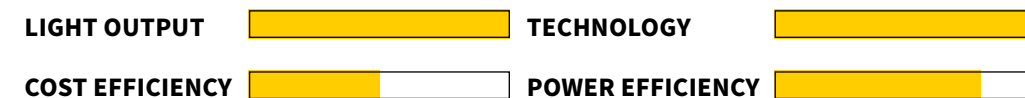
LED (LIGHT-EMITTING DIODE)

An LED is a semiconductor-based light source. They are considered to be a form of solidstate lighting (which means they rely on electroluminescence rather than incandescence).LEDs have many advantages over traditional incandescent lights, such as lower energy consumption, longer life, smaller size, increased physical resistance, and digital switching and power. WAT LED lights produce cool, bright light beams and are extremely power efficient. WAT LED lights are long-lasting, durable, and create a significant amount of light at short and medium distances with some of our flagship LEDs, reaching far distances. When shopping for lights, consider WAT LED lights when low amp draw and a compact size are priorities.



HID (HIGH INTENSITY DISCHARGE)

Advancing beyond halogen in context of light output, as well as the size and heat efficiency, are high-intensity discharge bulbs. HID bulbs have no filament, but instead tungsten electrodes. These electrodes are sealed in a quartz tube which is filled with both gas (usually Xenon) and also various metal salts which are ignited to produce an extremely intense amount of light. WAT HID Lights produce light beams that illuminate long distances and are available in 60W and 85W. They produce Lux and Candela ratings that could exceed 2-3 times the distance to similar wattage Halogens and LEDs. HIDs are the most balanced across output, cost, technology, and power. When shopping for lights, consider WAT HID lights when lighting at far distances is a priority.



OUR LIGHTING TECHNOLOGIES

LED VS. HID

It depends on how you prioritize your needs. LEDs are the most energy efficient type of light source compared to HIDs and Halogens. However, the challenge with LEDs is being able to direct enough of the light emitted to achieve a good amount of light intensity at longer distances. HIDs are still the best bang for the buck when it comes to Lux per watt at longer distances. But as LED technology and reflector design capabilities improve, LED lights will continue to advance. There are pros and cons across output, cost, technology, and power draw across LED and HID lights.

BALANCED LIGHTING

We have found that aircraft get the best visibility when combining both LED and HID technologies. LEDs are the best option in terms of position, anti-collision, and recognition lights. HIDs are the best solution for landing and taxi lights. Depending on the pilot or operators mission, we can provide a good mixture or program of lights that will fit the purpose of the aircraft, whether it’s an all LED lighting setup or HID and LED combination.



TABLE OF CONTENTS



LED & MISC. LIGHTING PRODUCTS

- p. 10-11 LED Self Contained Position / Anti-Collision Lightheads
- p. 12-21 Anti-Collision / Position Lights
- p. 22-25 Power Supplies
- p. 26-35 Self Contained Lightheads
- p. 36-39 Position Lights
- p. 40-43 ParmetheusPar Lights
- p. 44-51 Exterior Lighthead Modules
- p. 52-59 Interior Lighting
- p. 60-61 Experimental Lighting
- p. 62-63 Miscellaneous
- p. 64-79 System Recommendations

HID LIGHTING PRODUCTS

- p. 89-109 Jet HID Lighting Products
- p. 110-117 Turbo Prop HID Lighting Products
- p. 118-125 Piston HID Lighting Products
- p. 126-127 Rotorcraft HID Lighting Products

HID LIGHTING PRODUCTS



LED Lighting

Products



WHELEN AEROSPACE TECHNOLOGIES

About Us

- Three manufacturing facilities totalling over 1 million square feet.
- Largest staff of Design Engineers in the industry.
- Extensive research and development facilities.
- Plastics injection molding machines from 30 to 2000 tons capacity.
- In-house plastics, hard-coating, metallizing; sheet metal fabrication.
- On-site test lab for environmental dust, moisture, vibration, etc, acoustic anechoic sound chamber, industry certifications (SAE, AMECA, FAA, TSO).
- Sales and Technical Personnel are trained at the factory training center and return for updates on a regular schedule.
- Worldwide network of Sales, Service and Training.

SELF-CONTAINED POSITION/ ANTI-COLLISION LIGHTHEADS

ORION™ SERIES

Whelen Aerospace Technologies is proud to offer the ORION Series of TSO/ETSO approved LED aviation lighting. Incorporating the latest state-of-the-art LED Technology available in an all-inclusive package, the ORION series eliminates the need for external flasher boxes. Flush mountable for a wide variety of applications with minimal integration and easily retrofitted to the Whelen legacy strobe products. The ORION series is quite simply the brightest form of LED Anti-collision and Position lighting available.

ORION™ 600



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	REPLACEMENT LENS	APPROVALS
OR6001G	01-0771733-01	Green Forward POS & White Tail POS Light / ACL Wingtip Assembly, 14 VDC	0.5 lbs. (227gm)	L x 5.65" (144mm) x W 1.78" (45mm) x H 2.04" (52mm)	p/n: 02-0371773-300 (Same lens used for both left & right.)	FAA TSO-C96a, TSO-C30c Types II & III, E-TSO
OR6001R	01-0771733-02	Red Forward POS & White Tail POS Light / ACL Wingtip Assembly, 14 VDC				FAA TSO-C96a, TSO-C30c Types I & III, E-TSO
OR6002G	01-0771733-11	Green Forward POS & White Tail POS Light / ACL Wingtip Assembly, 28 VDC				FAA TSO-C96a, TSO-C30c Types II & III, E-TSO
OR6002R	01-0771733-12	Red Forward POS & White Tail POS Light / ACL Wingtip Assembly, 28 VDC				FAA TSO-C96a, TSO-C30c Types I & III, E-TSO

ORION™ 660



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	REPLACEMENT LENS	APPROVALS
OR6601G	01-0790877-01	Green Forward POS & White Tail POS Light / ACL Wingtip Assembly, 14 VDC	0.3 lbs. (136gm)	L x 3.95" (100mm) x W 1.68" (43mm) x H 1.79" (45mm)	Right (Green) Assembly: p/n 01-0251094-01 Left (Red) Assembly: p/n 01-0251094-00	FAA TSO-C96a Class III / TSO-C30c Type II
OR6601R	01-0790877-02	Red Forward POS & White Tail POS Light / ACL Wingtip Assembly, 14 VDC				FAA TSO-C96a Class III / TSO-C30c Type I
OR6602G	01-0790877-11	Green Forward POS & White Tail POS Light / ACL Wingtip Assembly, 28 VDC				FAA TSO-C96a Class III / TSO-C30c Type II
OR6602R	01-0790877-12	Red Forward POS & White Tail POS Light / ACL Wingtip Assembly, 28 VDC				FAA TSO-C96a Class III / TSO-C30c Type I



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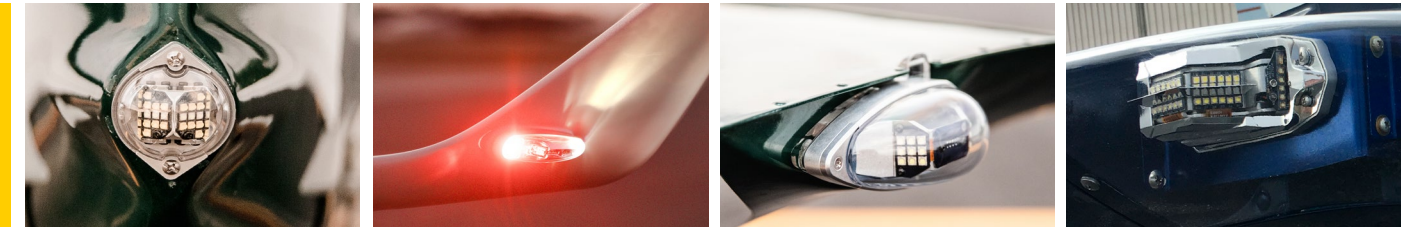
WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.



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FAR SPEC

A Technical Standard Order (TSO) is a minimum performance standard and does not equal compliance with the applicable Federal Aviation Regulations. In fact other manufacturers produce TSO approved items with operational characteristics that contradict the FARs. Whelen designs products as FAR-SPEC, Federal Aviation Regulations – Specified Lighting. FAR-SPEC is compliant with all applicable FAR's making your installation legal.



* Installers must follow the approved guidance for installation of the product to be FAR-SPEC compliant

ORION™ 650



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	REPLACEMENT LENS	APPROVALS
OR6501G	01-0790725-01	Green POS Light / ACL Wingtip Assembly, 14 VDC	.30 lbs. (136gm)	L x 3.95" (100mm) x W 1.68" (43mm) x H 1.79" (45mm)	Right (Green) Assembly: p/n 01-0251094-01 Left (Red) Assembly: p/n 01-0251094-00	STC/TSO/ETSO-C96a Class III / TSO/ETSO-C30c Type II
OR6501R	01-0790725-02	Red POS Light / ACL Wingtip Assembly, 14 VDC				STC/TSO/ETSO-C96a Class III / TSO/ETSO-C30c Type I
OR6502G	01-0790725-11	Green POS Light / ACL Wingtip Assembly, 28 VDC				STC/TSO/ETSO-C96a Class III / TSO/ETSO-C30c Type II
OR6502R	01-0790725-12	Red POS Light / ACL Wingtip Assembly, 28 VDC				STC/TSO/ETSO-C96a Class III / TSO/ETSO-C30c Type I

ORION™ 650E



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	APPROVALS
OR6501GE	01-0790701-01	Green POS Light / ACL Wingtip Assembly, 14 VDC	.26 lbs. (118gm)	L x 3.85" (98mm) x W 1.67" (42mm) x H 2.20" (56mm)	STC/TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type II
OR6501RE	01-0790701-02	Red POS Light / ACL Wingtip Assembly, 14 VDC			STC/TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type I
OR6502GE	01-0790701-11	Green POS Light / ACL Wingtip Assembly, 28 VDC			STC/TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type II
OR6502RE	01-0790701-12	Red POS Light / ACL Wingtip Assembly, 28 VDC			STC/TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type I

ORION™ 500



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	REPLACEMENT LENS	APPROVALS
OR5001V	01-0771774V01	Taillight White, 14 VDC	0.29 lbs (132gm)	L x 3.72" (94mm) x W 1.75" (44mm) x H 2.17" (55mm)	P/N: 68-3951061A31	STC / TSO/ETSO-C96a Class II TSO/ETSO-C30c Type III
OR5002V	01-0771774V02	Taillight White, 28 VDC				

ORION™ 550



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	REPLACEMENT LENS	APPROVALS
OR5501V	01-0772070V01	White Tail POS / ACL Assembly, 14 VDC	0.20 lbs. (91gm)	L x 1.87" (47mm) x W 1.75" (44mm) x H 2.17" (55mm)	P/N: 68-3951061A31	FAA TSO-C96a Class II FAA TSO-C30c Type III

ANTI-COLLISION / POSITION LIGHTS

71110 SERIES

71110 Series is a Wingtip mounted Strobe Anti-Collision/Position light assembly utilizing LEDs for the Forward Position lights. The LEDs provide a significant reduction in current draw over conventional position light bulbs. The strobe light lens assembly is radio-shielded for maximum EMI/RFI protection. Navigation light portion is wired with flying leads.



LEGACY A650 PG/PR SERIES
For Reference Only

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS	APPROVALS
7111001	01-0771110-01	Position Green, 14 VDC	0.45 lbs. (204gm) 14 VDC	Exposed Height: 2.35" (60.69mm) x 1.78" (45.21mm) x 3.88" (98.55mm)	Clear RFI coated glass: strobe	TSO-C96a Class II / TSO-C30c Type II
7111002	01-0771110-02	Position Red, 14 VDC	14 VDC		Clear Polycarbonate: Navigation Lights	TSO-C96a Class II / TSO-C30c Type I
7111003	01-0771110-03	Position Green, 28 VDC	0.50 lbs. (227gm) 28 VDC		Clear Polycarbonate: Navigation Lights	TSO-C96a Class II / TSO-C30c Type II
7111004	01-0771110-04	Position Red, 28 VDC	28 VDC		Clear Polycarbonate: Navigation Lights	TSO-C96a Class II / TSO-C30c Type I



ANTI-COLLISION / POSITION LIGHTS

90340 & 90375 SERIES

90340 Series is an all inclusive Wingtip mounted Strobe Anti-Collision/Position Light assembly utilizing LEDs for both the Forward & Tail Position lights, eliminating the need for a tail mounted position light. The LED's provide a significant reduction in current draw over conventional position light bulbs. The strobe light lens assembly is radio-shielded for maximum EMI/RFI protection. Direct replacement (exact footprint) for Whelen Model A600PG/PR Series (photo left) without replacing the current strobe power supply. Single set of flying leads operates both Forward and Tail Nav on 28 VDC version, and one set each of flying leads for the Forward and Tail Nav on the 14 VDC version.



LEGACY A600 PG/PR SERIES
For Reference Only

MODEL	PART#	DESCRIPTION	WEIGHT	CURRENT DRAW	DIMENSIONS	LENS	APPROVALS
9034001	01-0790340-01	Position Green, 14 VDC	0.60 lbs. (272gm) 14 VDC	LED Navigation Light Power Consumption: 0.5 amps @ 14 VDC, 0.25 amps @ 28 VDC	Exposed Height: 2.70" (69mm) x 1.87" (47.49mm) x 5.69" (144.52mm)	Clear RFI coated glass on strobe Clear polycarbonate on Navigation lights	TSO-C96a Class II / TSO-C30c Types II & III
9034002	01-0790340-02	Position Red, 14 VDC					TSO-C96a Class II / TSO-C30c Types I & III
9034003	01-0790340-03	Position Green, 28 VDC	0.65 lbs. (295gm) 28 VDC				TSO-C96a Class II / TSO-C30c Types II & III
9034004	01-0790340-04	Position Red, 28 VDC					TSO-C96a Class II / TSO-C30c Types I & III
9037501	01-0790375-01	Position Green, 28 VDC with shield. Cirrus Design	28 VDC	LED Navigation Light Power Consumption: 0.5 amps @ 14 VDC, 0.25 amps @ 28 VDC	Exposed Height: 2.70" (69mm) x 1.87" (47.49mm) x 5.69" (144.52mm)	Clear RFI coated glass on strobe Clear polycarbonate on Navigation lights	TSO-C96a Class II / TSO-C30c Types II & III
9037502	01-0790375-02	Position Red, 28 VDC with shield. Cirrus Design					TSO-C96a Class II / TSO-C30c Types I & III

71170 SERIES

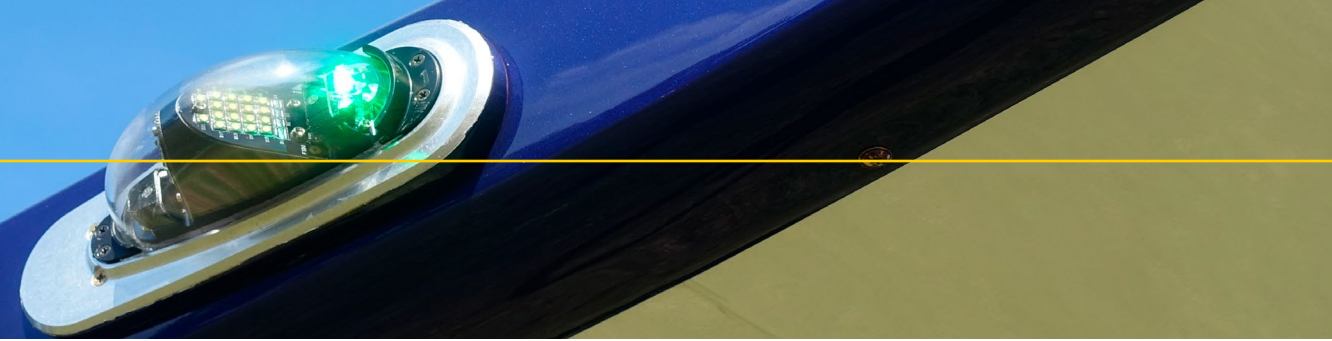
An all LED Forward Position and Anti-Collision light assembly includes a Red flashing portion to be used as a Ground Recognition light. Red "Ground Recognition Light" cannot be activated simultaneously with White ACL light. This light is intended for use as a system with 9048200 and 7123403 Series lighthoods and flasher/current sources.



Uses flasher 7123403.
Purchased separately.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	COLORS	APPROVALS
7117001	01-0771170-01	LED POS (Green)/ACL (White), GND REC (Red), 28 VDC	0.8 lbs. (363gm)	Exposed Height: 2.33" (59mm) x 1.77" (50mm) x 3.86" (98mm)	Red, Green and White	FAA TSO-C96a Class II / TSO-C30c Type II
7117002	01-0771170-02	LED POS (Red)/ACL (White), GND REC (Red), 28 VDC				FAA TSO-C96a Class II / TSO-C30c Type I

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90613 SERIES

90613 Series is a self contained, all LED forward and aft position light with a white anti-collision light. These assemblies interconnect with standard Amp Mate-N-Lock connectors. 90613 assemblies have the same hole pattern of the original Cessna Caravan light. These units are currently used in production aircraft. Designed to replace legacy Aeroflash art numbers 156-0019G & 156-0019R. These assemblies currently STC Approved.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS	APPROVALS
9061391	01-0790613-91	RH Green Wingtip position anti-collision LED, 28VDC	0.88 lbs. Ref.	7.40" x 2.63"	Clear Polycarbonate Hardcoat	FAA - TSO/STC Approved
9061392	01-0790613-92	LH Red Wingtip position anti-collision LED, 28 VDC				FAA - TSO/STC Approved

90325 SERIES

Model 90325 and 71120 (current source) are an all LED upgrade to Cessna Citation wingtip strobe legacy products manufactured by Whelen Aerospace Technologies. A direct replacement for Whelen's 90206 wingtip products. Will not work for 900159. The 90325 will retrofit Models 550, S550, 560 or is able to be modified to fit other wings of similar design. 90325 ships with a 24" cable harness that mate to 71120. Available in 28V Only.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS	APPROVALS
9032501	01-0790325-01	LED Position/Anti-Collision (Green), 28 VDC	1.2 lbs. (544gm)	Exposed Height: 2.61" (66 mm) x 3.11" (79mm) x 10.24" (6mm)	Clear Polycarbonate Hardcoat	FAA TSO-C96a Class II /TSO C30c Types I & III
9032502	01-0790325-02	LED Position/Anti-Collision (Red), 28 VDC				FAA TSO-C96a Class II /TSO C30c Types II & III

71120 SERIES

Model 71120 (current source) drives light head model 90325. 71120 are designed to fit the strobe power supply footprint used in Citation wingtips. Available in 28V Only.



MODEL	PART#	DESCRIPTION	WEIGHT	CURRENT DRAW	DIMENSIONS	APPROVALS
7112000	01-0771120-00	LED flasher / Current source, 28 VDC	0.95 lbs. (431gm)	LED Forward/Tail Position: .25a LED Anti-collision: 0.85a Average, 4.5a Peak	2.53" (64mm) x 5.6" (142mm) x 4.63" (118mm)	TSO-C96a TSO-C30c* * with Model 90325

ANTI-COLLISION / POSITION LIGHTS

90569 SERIES

90569 Series is a Forward and Aft LED POS/ACL assembly with Integrated Red LED Ground Recognition lights. 90569 is a LED head assembly only, powered by Whelen Model 71457 Flasher/Current Source designed to be mounted within 12 inches of the lighthouse assembly. Unit complies with TSO-C96a Class II (400 ecp) anti-collision light requirements, and TSO-C30c forward position light requirements. Model 90569 is a direct mechanical replacement for A600/90340 (with adapter). Ships with 12" of cable wiring into an amp connector. Available in 28 VDC.



MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	LENS	APPROVALS
9056901	01-0790569-01	LED FWD/AFT POS/ACL, Green, Ground/Rec, 28 VDC	90569	0.5 lbs (227gm)	Exposed Height: 2.01" (50.8mm) x 1.77" (44.96mm) x 5.61" (142.49mm)	Clear Polycarbonate	TSO-C96a Class II /TSO-C30c Types II & III
9056902	01-0790569-02	LED FWD/AFT POS/ACL, Red, Ground/Rec, 28 VDC					TSO-C96a Class II /TSO-C30c Types I & III
9056951	01-0790569-51	LED POS (Green)/ACL (White), Ground/Rec, (IR)					TSO-C96a Class II /TSO-C30c Types II & III
9056952	01-0790569-52	LED POS (Red)/ACL (White), Ground/Rec, (IR)					TSO-C96a Class II /SO-C30c Types I & III

MODEL 71457

Model 71457 is our combination Flasher and Current source for 90569 Series (and other applications) Forward and Aft POS/ACL assembly with integrated Red LED Ground Recognition lights. Model 71457 LED Flasher/Current source is designed to be mounted within 12" of the lighthouse assembly. Unit complies with TSO-C96a Class II (400 ecp) anti-collision light requirements, and TSO-C30c forward position light requirements. Power Input Connector sold separately, entry level unit (shown) uses CPC 205841-1 connectors. Available in 28 VDC only.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
7145700	01-0771457-00	LED Flasher/Current Source, 28 VDC	0.58 lbs (263.08gm)	1.38" (35.05mm) x 3.67" (93.22mm) x 4.6" (116.84mm)	See 71457 (0.2 Amps Fwd & Aft Pos), (0.8 Amps Average ACL)	TSO-C96a TSO-C30c* * with Model 90569
7145701	01-0771457-01	LED Flasher/Current Source, 28 VDC (Cirrus)			0.23 Amps Pos 0.73 Amps Average Anti-collision	TSO-C96a TSO-C30c

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ANTI-COLLISION / POSITION LIGHTS



A650 SERIES

A650 Series converts W1285 Position lights into a position/anti-collision system by removing the existing retainer & replacing it with the A650 assembly. Radio-shielded version available.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	APPROVALS
A650	01-0770053-00	Standard unit	0.2 lbs. (91gm)	Exposed Height: 2.4" (61mm) x 1.75" (44.45mm) x 2.70" (60.58mm)	FAA PMA
A650D	01-0770053-13	Radio-shielded			

50626 SERIES

50626 Series Strobe Tube assemblies are used with model numbers listed in chart below.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS	USED ON
5062600	36-0050626-00	Strobe tube assembly, 6" long	0.3lbs. (136gm)	Exposed Height: 2.25" (57mm) x 2.5" (64mm)	Clear Pyrex Glass	Model 9011102
5062601	36-0050626-01	Strobe tube assembly, 6" long w/grommet				Model 9034000 through 07, 20, 21 Model 7111001 through 04
5062602	36-0050626-02	Strobe tube assy, 12.5" long w/grommet				Model 9034008, 09
5062603	36-0050626-03	Strobe tube assy, 2" long w/grommet*				Model 9037501, 02

A610 FLASH TUBE & A612 GLASS LENS

A610 flash tube and A612 glass lens are used for installing wingtip strobes in single engine Cessna models 1972 and later. The existing position light retainer is modified to accommodate the lens, and the flash tube is mounted directly behind. The A612 lens unique magnifying design increases the horizontal plane's light intensity by two to three times. They are used for custom installations or spare parts for existing light assemblies. The A612 lens is available in Aviation Red and an RFI coated version. Lenses meet material requirements of MIL-C-7989B Class B.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS
A610	02-0250276-00	Standard unit, 6" leads NSN	0.09 lbs. (41gm)	A610: 1.6" (40.64mm) H x 1.12" (28.39mm) W x 1.56" (39.64mm) L	A612: RF Coated Clear & Aviation Red
A610M	02-0250276-03	Molex connector, 6" leads	-		
5027601	02-0250276-01	14" leads	-		
5027602	02-0250276-02	12.5" leads	-		
A612	68-2290005-30	Standard Clear lens	0.08 lbs. (36gm)	A612: 1.6" (40.64mm) H x 1.75" (44mm) Dia	
A612C	68-2290005-34	Radio-shielded, Clear lens	-		
A612R	68-2290005-50	Standard Red lens	-		
A612RC	68-2290005-54	Radio-shielded, Red lens	-		



7199400 SERIES LED WINGTIP ANTI-COLLISION LIGHT

The 71994 is a self contained LED Anti-Collision light assembly designed to replace the original 01-0770818-00 strobe light on Cessna Restarts. These assemblies are the same fit, form, function as the original light assembly and come with the comet flash pattern. The 71994 light is TSO-C96a Class III approved and come with a 5 year warranty.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	COLORS	LENS
7199400	01-07781994-00	LED anti-collision light assembly	0.4 lbs. (181gm)	Exposed: 1.87" (48mm) x 2.25" (57mm)	Clear	-

NOTE: Strobe power supply must be removed when replacing with LED assembly.

LIGHTING FOR CESSNA RESTART PACKAGE

The Model 7198700 & 7198517 are designed to replace the legacy strobe light (01-0770818-00) and power supply (01-0770006-12 & -17) system on Cessna single engine restart aircraft 1996 & newer. FAA/STC Approved.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS
7198700	01-0771987-00	LED Anti-collision light, White	0.14 lbs. (64gm)	1.18 (30mm) H, x 3.17 (81mm) L, x 1.42 (6mm) W
7198517	01-0771985-17	Flasher assembly	0.48 lbs. (218gm)	1.38 (35mm) H, x 3.93 (100mm) L, x 3.10 (79mm) W

71560 SERIES - LED VERTICAL FIN GROUND RECOGNITION

7156000 Replaces 7078600 & 7105000 and is utilized on Cessna single engine restart aircraft and Piper.



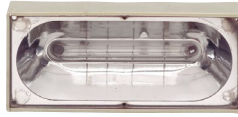
MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS
7156000	01-0771560-00	28 VDC LED ground recognition light Cessna	0.2 lbs. (97gm)	1.39" (35mm) x 2.47" (63mm) x 2.09" (53mm)	Clear Polycarbonate
7156020	01-0771560-20	28 VDC LED ground recognition light Piper	0.2 lbs. (97gm)	1.39" (35mm) x 2.47" (63mm) x 2.09" (53mm)	Clear Polycarbonate

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ANTI-COLLISION / POSITION LIGHTS

90028 SERIES - WINGTIP STROBE LIGHT

90028 Series Wingtip Strobe light is used on Beech aircraft with commonality wingtip 1974 & later. It is a direct replacement for 30-0467-(-), 30-1331-(-) and the 30-1467-(-) Series.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS
9002800	01-0790028-00	Replacement flash tube assembly, unpainted	0.4 lbs. (181gm)	Exposed: 1.87" (48mm) x 2.25" (57mm)	-
9002801	01-0790028-01	Replacement flash tube assembly, painted (White)			
D900283	01-0790028-03	Wingtip light assembly, 45° mounting bracket			
D900285	01-0790028-05	Taillight assembly, 90° mounting bracket			
D900287	01-0790028-07	Wingtip light assembly, 45° mtg. bracket, MS connector			
D900289	01-0790028-09	Taillight assembly, 90° mounting bracket, MS connector			

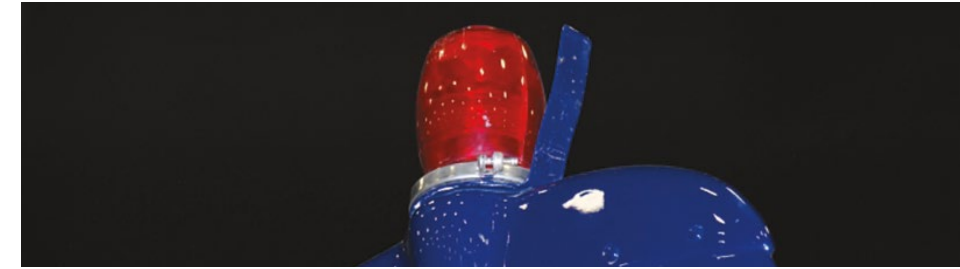
A470A SERIES - REMOTE STROBE LIGHT

A470A Series Remote Strobe Light assembly is compatible with all Whelen power supplies. It can be installed on the fuselage or the vertical fin. The unique polycarbonate optic lens and reflector design re-directs stray light rays into the horizontal plane to provide the maximum 360° of uniform light coverage possible. Available in three different lens colors, Aviation Red, Aviation White and split Aviation Red/White. Available in radio-shielded configurations. All assemblies require either the Model H102 or H103 mounting adapter.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS	APPROVALS
A470AR	01-0770019-18	Standard assembly, Red lens NSN (a)	0.3 lbs. (136gm)	3.50" (88.90mm) x 2.58" (66.53mm)	Polycarbon- ate	FAA/PMA
A470AW	01-0770019-19	Standard assembly, White lens NSN (b)				FAA/PMA
A470AS	01-0770019-20	Standard assembly, split Red/White lens NSN (*)				FAA/PMA
A470ADR	01-0770019-21	Radio-shielded assembly, Red lens				FAA/PMA
A470ADW	01-0770019-22	Radio-shielded assembly, White lens				FAA/PMA
A470ADS	01-0770019-23	Radio-shielded ass'y, split Red/White lens NSN (c)				FAA/PMA
(a) 6220-14851001, (b) 6340-14331362, (c) 6220-13844609						

*"...THE UNIQUE POLYCARBONATE OPTIC LENS
AND REFLECTOR DESIGN, RE-DIRECTS STRAY
LIGHT RAYS INTO THE HORIZONTAL PLANE."*



H102 & H103 - ADAPTERS

Designed for the Model A470A or Model A450 Series Remote Strobe lighthouse assemblies. The Model H102 allows flush mounting of the lighthouse to the skin of the fuselage or the vertical stabilizer on later model Cessna Single engines. The H103 is designed for strobe assemblies to be installed in the standard 3-3/4" (95mm) dia. rotating beacon mounting hole.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	APPROVALS
H102	07-730068-000	Flush mount adapter NSN	-	0.15" (3.8mm) x 2.49" (66.24mm)	FAA/PMA
H103	11-230079-000	Rotating beacon mount adapter	-	1.38" (35.05mm) x 3.69" (93.82mm)	-

Supplement: PMA# 13

A500A SERIES - COMBINATION STROBE/TAIL NAVIGATION LIGHT

A500A Series Combination Strobe/Tail Navigation Light is used when the wingtip anti-collision lights are mounted in an enclosure and can't provide 360° of strobe coverage. It is a direct replacement for the standard tail position light. Available in a radio-shielded version. Voltage (14 or 28) and mounting (horizontal or vertical) must be specified when ordering.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS	APPROVALS
A500AV14	01-0770024-00	Vertical mount, 14 VDC	0.3 lbs. (136gm)	Exposed: 1.7" (43mm x 1.5" (38mm)	Glass	FAA/PMA, TSO-C30b
A500AH14	01-0770024-02	Horizontal mount, 14 VDC				FAA/PMA, TSO-C30b
A500AV28	01-0770024-01	Vertical mount, 28 VDC				FAA/PMA, TSO-C30b
A500AVD2	01-0770024-05	Vertical mount, radio-shielded, 28 VDC				FAA/PMA, TSO-C30b
A500ASP2	01-0770024-25	Vertical mount, 50" cables, 28 VDC				No connector
A500ABV2	01-0770024-15	Beech Special, MS connector, 24 VDC				-

Supplement: PMA# 7

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ANTI-COLLISION / POSITION LIGHTS

90482 SERIES

Model 90482 is a compact upgraded version of the 90354 Tail assembly Aft Position light with White Anti-Collision light combination includes a Red flashing portion used as a Ground Recognition light. Red Ground Recognition and White Anti-Collision lighting can not be activated simultaneously. This light is intended for use as a system with 71170 series lighthoods and Model 7123403 Flasher/Current source for complete aircraft coverage. Item does not include interconnect cable for Flasher/Current source.



Uses flasher 7123403, purchased separately.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	LENS	APPROVALS
9048200	01-0790482-00	Aft Position/ACL (White) with ground recognition (Red)	0.35 lbs. (159gm)	Exposed Height: 3.60" (91mm) x 1.25" (32mm) x 1.78" (45mm)	Clear Polycarbonate	FAA TSO-C96a/ TSO-C30c Type III
9048202	01-0790482-02	LED tail nav/ground recognition anti-collision light		Exposed Height: 3.60" (91mm) x 1.40" (36mm) x 1.56" (40mm)		TSO-C96a/ TSO-C30c

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POWER SUPPLY

CHOOSING A POWER SUPPLY....

The power supply needed depends on the application, and the mounting location. Model HDACF Series is a fuselage mounted power supply that will power two or three lights. Model A490ATSC Series is designed for installation adjacent to the strobe lighthouse and will power one light assembly. Model A490TCF Series is the most economical power supply when adding only one light. It mounts adjacent to the strobe lighthouse assembly (not legal for light output with Red strobe light).

Most other Whelen power supplies are application specific, contact factory for details. Unless otherwise noted, all power supplies are CometFlash. Whelen Engineering is proud to have introduced the CometFlash CF, a major advancement in the field of safety lighting. By pulsing the flash tube four times in rapid succession, the effective "on-time" of the strobe is increased from 2/1000 of a second to 4/10 of a second. This increases your airplane's visibility. The development of the CometFlash reflects Whelen's dedication to safety.


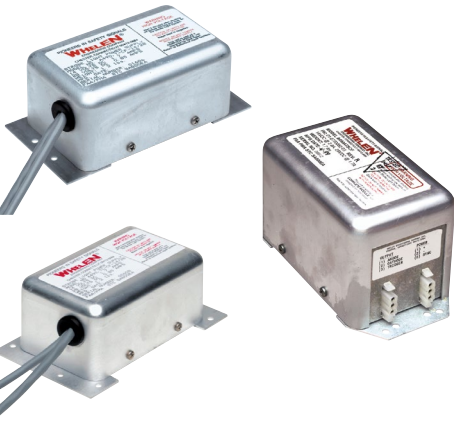
HDACF SERIES - STROBE POWER SUPPLY

Model HDACF Series provides simultaneous flashing, alternate flashing or both. It will operate one, two or three strobe lighthouses. Operating the wingtip strobes in the alternating mode will provide an accumulated 42 joules of power to each light. When in the simultaneous mode, the accumulated power to each light is 21 joules. In the three light mode, the wingtips will flash simultaneous at an accumulated 21 joules each, they alternate with a third light operating at an accumulated 42 joules. On the trigger selector outlet, a switch mounted in place of the jumper will allow wingtip outlets 2 & 3 to be turned off, while the tail outlet 1 will remain on. This function is commonly used when the third light is for ground operations. This power supply will operate from 10 to 30 VDC.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW
HDACF	01-0770028-05	A413AHDACF power supply	2.1 lbs. (953gm)	2.37" (60mm) x 5.0" (127mm) x 5.50" (140mm)	7.0 amps @ 14 VDC; 3.5 amps @ 28 VDC

STROBE POWER SUPPLY REPLACEMENT GUIDE

OLD PART#	OLD MODEL#	DESCRIPTION	CURRENT REPLACEMENT
A413,HS-41-14	HS, 41	Single strobe unit, SingleFlash, 14 VDC, 33 joule	Model HDACF P/N 01-0770028-05 
A413,HS-41-28	HS, 41	Single strobe unit, SingleFlash, 28 VDC, 33 joule	
A413,HD-14	HD	Dual strobe unit, SingleFlash, 14 VDC, alternating	
A413,HD-28	HD	Dual strobe unit, SingleFlash, 28 VDC, alternating	
A413,HD-42-14	HD, 42	Dual strobe unit, SingleFlash, 14 VDC, alternating, 33 joule	
A413,HD-42-28	HD, 42	Dual strobe unit, SingleFlash, 28 VDC, alternating, 33 joule	
A413,T2-14	HD, T2	Dual strobe unit, SingleFlash, 14 VDC, simultaneous, 16 joule	
A413,T2-28	HD, T2	Dual strobe unit, SingleFlash, 28 VDC, simultaneous, 16 joule	
A413,T2-DF-14	HD, T2, DF	Dual strobe unit, DoubleFlash, 14 VDC, simultaneous, 16 joule	
A413,T2-DF-28	HD, T2, DF	Dual strobe unit, DoubleFlash, 28 VDC, simultaneous, 16 joule	
A413,T3-14	HD, T3	3 strobe unit, SingleFlash, 14 VDC, w/trigger function	
A413,T3-28	HD, T3	3 strobe unit, SingleFlash, 28 VDC, w/trigger function	
A413,HD,DF-14	HD, DF	3 strobe unit, DoubleFlash, 14 VDC	
A413,HD,DF-28	HD, DF	3 strobe unit, DoubleFlash, 28 VDC	
A413,T3-DF-14	HD, T3, DF	3 strobe unit, DoubleFlash, 14 VDC, w/trigger function	Model A490TCF P/N 01-0770006-08 Model A490TCF P/N 01-0770006-09 Model A490ATSC P/N 01-0770062-03 
A413,T3-DF-28	HD, T3, DF	3 strobe unit, DoubleFlash, 28 VDC, w/trigger function	
A413A,HDA-DF-14	HDA, DF-14	4 strobe unit, DoubleFlash, 14 VDC	
A413A,HDA-DF-28	HDA, DF-28	4 strobe unit, DoubleFlash, 28 VDC	
A413A,HDA-DF-14/28	HDA, DF-14/28	4 strobe unit, DoubleFlash, 14 or 28 VDC	
A413A,HDA-CF-14/28	HDA, CF-14/28	4 strobe unit, CometFlash, 14 or 28 VDC	
A412A,HS-14	HS,14	Single strobe unit, SingleFlash, 14 VDC	
A412A,HS-28	HS,28	Single strobe unit, SingleFlash, 28 VDC	
A412A,HS,DF-14	HS,DF-14	Single strobe unit, DoubleFlash, 14 VDC	
A412A,HS,DF-28	HS,DF-28	Single strobe unit, DoubleFlash, 28 VDC	
A490,TS-14	HTS	Single strobe unit, SingleFlash, 14 VDC	
A490,TS-28	HTS	Single strobe unit, SingleFlash, 28 VDC	
A490A,TS,DF	HTS-DF	Single strobe unit, DoubleFlash, 14 or 28 VDC	
A490A,TS,CF-14/28	HTS-CF	Single strobe unit, CometFlash, 14 or 28 VDC	
A490,T-14	HT	Single strobe unit, SingleFlash, 14 VDC	
A490,T-28	HT	Single strobe unit, SingleFlash, 28 VDC	
A490,T,DF-14	HT, DF	Single strobe unit, DoubleFlash, 14 VDC	
A490,T,DF-28	HT, DF	Single strobe unit, DoubleFlash, 28 VDC	
A490,T,DF-14/28	HT, DF	Single strobe unit, DoubleFlash, 14 or 28 VDC	
A490,T,CF-14/28	HT, CF	Single strobe unit, CometFlash, 14 or 28 VDC	
A490,TC,DF-14	HTC, DF	Single strobe unit, DoubleFlash, 14 VDC with mounting plate	
A490,TC,DF-28	HTC, DF	Single strobe unit, DoubleFlash, 28 VDC with mounting plate	
A490,TC,DF-14/28	HTC, DF	Single strobe unit, DoubleFlash, 14 or 28 VDC with mounting plate	
A490,TC,CF-14/28	HT, CF	Single strobe unit, CometFlash, 14 or 28 VDC with mounting plate	

POWER SUPPLY



A490ATSC SERIES

Model A490ATSC operates one strobe lighthouse. Its compact size allows mounting in the wingtip and/or the tail, adjacent to the lighthouse. It produces an accumulated 34 joules of power and can be equipped to flash simultaneously with up to 5 other like units by connecting an 18 gauge wire between outlet 3 on the input power connector. This power supply will operate from 10 to 30 VDC.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
A490ATSC	01-0770062-03	A490ATSCF power supply	1.7 lbs. (771gm)	3.06" (78mm) x 3.12" (79mm) x 5.0" (127mm)	4.0 amps @ 14 VDC; 2.0 amps @ 28 VDC & Aviation Red	FAA/PMA

Supplement: STC SA615EA PMA 6

A490TCF SERIES

A490TCF series operates one strobe lighthouse. It is our most compact unit and can be mounted in the wingtip and/or the tail adjacent to the lighthouse. It produces an accumulated 19 joules of power. It will only meet 400 CP when used with the A470A-W. This unit cannot be synchronized. This power supply operates from 10 to 30 VDC (not approved for use with Red strobe light).



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
A490TCF	01-0770006-08	Standard unit, 20" leads, amp connectors	1.2 lbs. (544gm)	2.38" (60mm) x 3.12" (79mm) x 5.0" (127mm)	1.7 amps @ 14 VDC; 0.85 amps @ 28 VDC	FAA/PMA

Supplement: STC SA615EA PMA 6

A490TCCF SERIES

A490TCCF Series is the same as the A490TCF but has a mounting plate with additional holes that directly replaces factory installed systems on single engine Cessnas, Aero Commanders, and Grumman Americans.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
A490TCCF	01-0770006-09	Standard unit, 20" leads, amp connectors	1.2 lbs. (544gm)	2.38" (60mm) x 3.12" (79mm) x 5.0" (127mm)	1.7 amps @ 14 VDC; 0.85 amps @ 28 VDC	FAA/PMA

Supplement: STC SA615EA PMA 6

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POWER SUPPLY

90101 SERIES

Series is similar to the HDCF but has military connectors. It is available in SingleFlash or CometFlash®. Several different configurations are available for application specific installations.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
9010100	01-0790101-00	24 joule, SingleFlash	1.7 lbs. (771gm)	3.50" (89mm) x 3.12" (79mm) x 5.0" (127mm)	4 amps @ 14 VDC; 2 amps @ 28 VDC	TSO-C96a
9010101	01-0790101-01	24 joule, SingleFlash, old style mounting plate				TSO-C96a
9010102	01-0790101-02	24 joule, SingleFlash, w/add on mounting plate				TSO-C96a
9010104	01-0790101-04	34 joule, CometFlash, replaces Grimes 60-2799 when used with mounting brackets				TSO-C96a
9010104	01-0790101-05	34 joule, CometFlash				TSO-C96a

90079 SERIES

90079 Series is similar to the HDACF Series, but has military connectors. Connectors 2 & 3 (wingtips) will operate simultaneously and will alternate with connector 1 (tail). When operating two lights, use connectors 1 & 2 to operate in the alternating mode.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
9007904	01-0790079-04	42 joule, CometFlash, replaces Grimes 60-1750-1 & 3	2.3 lbs. (1043gm)	2.40" (61mm) x 5.0" (127mm) x 5.50" (140mm)	7 amps @14 VDC; 3.5 amps @28 VDC	FAA/PMA
9007906	01-0790079-06	42 joule, CometFlash, socket outputs, with add on mounting brackets				-

Supplement: PMA 33

MODEL A1610

A1610 Series produces 22 joules of energy. This wingtip mounted power supply will operate from 10 to 30 VDC. Piper P/N 481-228.



MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
A1610TSC	01-0770168-01	Power supply	70168	1.5 lbs. (680gm)	4.15" (105mm) x 2.18" (55mm) x 5.18" (132mm)	4 amps @ 14 VDC; 2 amps @ 28 VDC	FAA/PMA

Supplement: PMA 27

MODEL 70888

Model 70888 operates one (1) strobe lighthouse at 36 joules in CometFlash. It is equipped to flash simultaneously with up to 5 other like units by connecting an 18 gauge wire between outlet 3 on the input connector.



MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
7088800	01-0770888-00	Strobe power supply	70888	1.3 lbs. (590gm)	3.00" (76mm) x 3.12" (79mm) x 5.00" (127mm)	1.6 amps average Input Voltage: 28 VDC Nominal	TSO-C96a Class II, III



SELF-CONTAINED ANTI-COLLISION LIGHTHEADS

ORION™ 360 SERIES

ORION 360 Beacons are the 4th Generation LED beacons for fixed wing aircraft. These are designed to replace legacy 2.6" and 3.75" round beacons. ORION 360 beacons are lower profile than legacy product by 60%. Please see documents for more information on this product.



MODEL	PART#	DESCRIPTION	BASE DIA.	VDC	AMPS	APPROVALS
OR36R1N	01-0772010-50	Aviation Red, Upper	2.6" (66mm)	14	0.53 amps average, 2.8 amps peak	TSO-C96a Class III / STC Approved
OR36R1W	01-0772010-52	Aviation Red, Upper	3.67" (93mm)	14	0.53 amps average, 2.8 amps peak	TSO-C96a Class III / STC Approved
OR36S1N	01-0772010-70	Aviation Red/White, Upper	2.6" (66mm)	14	0.53 amps average, 2.8 amps peak	TSO-C96a Class III / STC Approved
OR36S1W	01-0772010-72	Aviation Red/White, Upper	3.67" (93mm)	14	0.53 amps average, 2.8 amps peak	TSO-C96a Class III / STC Approved
OR36R2N	01-0772010-10	Aviation Red, Upper	2.6" (66mm)	28	0.26 amps average, 1.4 amps peak	TSO-C96a Class III / STC Approved
OR36R2W	01-0772010-12	Aviation Red, Upper	3.67" (93mm)	28	0.26 amps average, 1.4 amps peak	TSO-C96a Class III / STC Approved
OR36R2WL	01-0772010-13	Aviation Red, Lower	3.67" (93mm)	28	0.26 amps average, 1.4 amps peak	TSO-C96a Class III / STC Approved
OR36S2N	01-0772010-30	Aviation Red/White, Upper	2.6" (66mm)	28	0.26 amps average, 1.4 amps peak	TSO-C96a Class III / STC Approved
OR36S2W	01-0772010-32	Aviation Red/White, Upper	3.67" (93mm)	28	0.26 amps average, 1.4 amps peak	TSO-C96a Class III / STC Approved
OR36S2WL	01-0772010-33	Aviation Red/White, Lower	3.67" (93mm)	28	0.26 amps average, 1.4 amps peak	TSO-C96a Class III / STC Approved
OR36W2N	01-0772010-20	Aviation White, Upper	2.6" (66mm)	28	0.26 amps average, 1.4 amps peak	TSO-C96a Class III / STC Approved
OR36W2W	01-0772010-22	Aviation White, Upper	3.67" (93mm)	28	0.53 amps average, 2.8 amps peak	TSO-C96a Class III / STC Approved

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WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.

SELF-CONTAINED ANTI-COLLISION LIGHTHEADS

90520 SERIES

90520 Series Beacons are TSO approved self-contained LED Anti-Collision lights (Ref. Class III - 100 effective candlepower). They are designed to replace strobe lightheads as small as the A470A with available models to replace HR self-contained beacons (HRCFA) or our legacy 70900 LED beacon. Mounting plate included with assembly. See models below.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
9052051	01-0790520-51	LED Red/White, 14 VDC, 2.75" mount	0.65 lbs. (295gm) (-01 & -51)	Exposed height, 3.74" (95mm) (-01 & 51) x 2.6" (66mm)	28 volt - 0.45 amps avg, 2.0 amps peak @ 0.3 seconds 14 volt - 0.90 amps avg, 4.0 amps peak @ 0.3 seconds	Clear polycarbonate	STC/TSO-C96a Class III
9052055	01-0790520-55	LED Red/White beacon, 14 VDC (3.75" adapter, flying leads)					STC/TSO-C96a Class III
9052001	01-0790520-01	LED Red/White, 28 VDC, 2.75" mount					STC/TSO-C96a Class III
9052004	01-0790520-04	LED Red/White, 28 VDC & 5-Hole mount					STC/TSO-C96a Class III
9052014	01-0790520-14	LED Red/White, 28 VDC & 5-Hole, lower mount					STC/TSO-C96a Class III
9052005	01-0790520-05	LED Red/White, 28 VDC, 3.75" adapter					STC/TSO-C96a Class III
9052015	01-0790520-15	LED Red/White, 28 VDC, 3.75" adapter, lower mount					STC/TSO-C96a Class III
9052007	01-0790520-07	LED Red/White, 28 VDC, 3.75" adapter, MS Connector					STC/TSO-C96a Class III
9052017	01-0790520-17	LED Red/White, 28 VDC, 3.75" adapter, lower mount, MS Connector					STC/TSO-C96a Class III
9052008	01-0790520-08	LED Red/White, 28 VDC & 5-Hole mount					STC/TSO-C96a Class III
9052018	01-0790520-18	LED Red/White, 28 VDC & 5-Hole, lower mount	STC/TSO-C96a Class III				

71410 SERIES

71410 LED White Anti-Collision Beacons are FAA TSO compliant self-contained LED Anti-Collision Lights. (Unit meets rotorcraft minimum ACL standards Class I, 150 effective Cd) They are designed to replace 3 3/4" opening found with our HRCFA/SACF style Strobe units and to replace rotating beacons, they also come with a narrow base allowing replacement of A470(A) and similar remote strobes (Contact Factory). 71410 Ships with 12" long flying leads, available in 28V only (TSO-C96a, CLASS III).



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7141001	01-0771410-01	LED Anti-Collision Light 28 VDC	0.75lbs (340.19gm)	Exp. Height 3.4" (86.36mm) x Dia: 3.60" (91.44mm)	0.32 amps Avg.	Clear polycarbonate	FAA TSO-C96a Class III



WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.



71080 SERIES

71080 Series Beacons are TSO approved self-contained LED Anti-Collision lights (Ref. Class I - 150 effective candlepower). They are designed to replace a range of products. Refer to models and descriptions below.



LEGACY HRCFA SERIES
For Reference Only



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7108051	01-0771080-51	LED Red, 14 VDC, 2.6" mount	0.65 lbs. (295gm) (-01 & -51)	Exposed height, 3.74" (95mm) (-01 & 51) x 2.6" (66mm)	28 volt - 0.45 amps avg, 2.0 amps peak @ 0.3 seconds 14 volt - 0.90 amps avg, 4.0 amps peak @ 0.3 seconds	Clear polycarbonate	STC/TSO-C96a Class I
7108055	01-0771080-55	LED Red, 14 VDC, 3.75" adapter, Flying Leads					STC/TSO-C96a Class I
7108001	01-0771080-01	LED Red, 28 VDC, 2.6" mount					STC/TSO-C96a Class I
7108004	01-0771080-04	LED Red, 28 VDC & 5-Hole mount					STC/TSO-C96a Class I
7108014	01-0771080-14	LED Red, 28 VDC & 5-Hole, lower mount					STC/TSO-C96a Class I
7108005	01-0771080-05	LED Red, 28 VDC, 3.75" adapter					STC/TSO-C96a Class I
7108015	01-0771080-15	LED Red, 28 VDC, 3.75" adapter, lower mount					STC/TSO-C96a Class I
7108007	01-0771080-07	LED Red, 28 VDC, 3.75" adapter, MS Conn.					STC/TSO-C96a Class I
7108017	01-0771080-17	LED Red, 28 VDC, 3.75" adapter, lower mount, MS Conn.					STC/TSO-C96a Class I
7108008	01-0771080-08	LED Red, 28 VDC & 5-Hole mount, MS Conn.					STC/TSO-C96a Class I
7108018	01-0771080-18	LED Red, 28 VDC & 5-Hole, lower mount, MS Conn.	STC/TSO-C96a Class I				

A440 SERIES

A440 mounting adapter is for fuselage installations for the HRCFA Series LED Beacons, and SACF Series Beacons.

MODEL	PART#	DESCRIPTION	DRAWING#	APPROVALS
A440	19-130074-009	Mounting adapter	30079	-

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SELF CONTAINED ANTI-COLLISION



LEGACY 90044 SERIES
For Reference Only



90724 SERIES

Model 90724 Series is a self-contained LED anti-collision beacon. It's solid-state circuitry and LED light source obsolete the "old style" mechanical oscillating beacons as well as the Whelen 90044 Series quartz halogen flashing beacons. Benefits include no moving parts, no EMI/RFI, no inrush current spikes and crisp on off cycles. There are several models available to provide compatibility with existing mounting patterns and profiles, thus eliminating the need to alter the aircraft.

MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	LENS	APPROVALS
9072411	01-0790724-11	LED Anti-collision light (lower 5-Hole mount) cable pigtail	90088	1.8 lbs. (816gm) (unless otherwise noted)	-11 through -16: 2.70" (68.5mm) x 2.38" (60.45mm) x 9.87" (250.69mm) -18 & -19: 2.84" (72.13mm) x 3.87" (98.92mm) x 11.43" (290.32mm)	0.45 amps @ 28 VDC	Aviation Red	Clear glass	TSO-C96a Class III
9072412	01-0790724-12	LED Anti-collision light (upper 5-Hole mount) cable pigtail							TSO-C96a Class III
9072413	01-0790724-13	LED Anti-collision light (Citation 5-Hole rudder mount, 2.25 lbs.) with connector							TSO-C96a Class III
9072414	01-0790724-14	LED Anti-collision light (5-Hole rudder mount, Barons, 2.25 lbs.) cable pigtail							TSO-C96a Class III
9072415	01-0790724-15	LED Anti-collision light (lower 5-Hole mount) with MS27508E10A-5P connector							TSO-C96a Class III
9072416	01-0790724-16	LED Anti-collision light (upper 5-Hole mount) with MS27508E10A-5P connector							TSO-C96a Class III
9072417	01-0790724-17	LED Anti-collision light (lower 5-Hole mount) cable pigtail, 2 lens drain holes (Hawkers)							TSO-C96a Class III
9072418	01-0790724-18	LED Anti-collision light (upper 8-Hole mount) cable pigtail							TSO-C96a Class III
9072419	01-0790724-19	LED Anti-collision light (lower 8-Hole mount) cable pigtail							TSO-C96a Class III
Replaces: Whelen: 90044 Series & Grimes: G9950-(), 40-0100-(), 30-2140-(), 40-0117-(), 40-0127-(), 30-2647-()									

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SELF CONTAINED ANTI-COLLISION

MODEL 90044, 90088 & 90724 CROSS REFERENCE LIST

90044 PART NUMBER	90088 PART NUMBER	90724 PART NUMBER	DESCRIPTION
01-0790044-39	01-0790088-03	01-0790724-03	Ground Recognition for Citation X (Lower 5 hole Mount) Cessna Exclusive Part
01-0790044-37	01-0790088-04	01-0790724-04	Ground Recognition for Citation X (Upper 5 hole Mount) Cessna Exclusive Part
-	01-0790088-06	01-0790724-06	Ground Recognition for Sovereign (Upper 5 hole Mount) Cessna Exclusive Part
01-0790044-03	01-0790088-11	01-0790724-11	Anti-Collision Light (lower 5 hole Mount) cable pigtail
01-0790044-01	01-0790088-12	01-0790724-12	Anti-Collision Light (Upper 5 hole Mount) cable pigtail
01-0790044-33	01-0790088-13	01-0790724-13	Anti-Collision Light (Citation 5 hole Rudder Mount, 2.25 lbs.) with connector
01-0790044-57	01-0790088-14	01-0790724-14	Anti-Collision Light (5 hole Rudder Mount, Barons, 2.25 lbs.) cable pigtail
01-0790044-39	01-0790088-15	01-0790724-15	Anti-Collision Light (Lower 5 hole Mount) with MS27508E10A-5P connector
01-0790044-37	01-0790088-16	01-0790724-16	Anti-Collision Light (Upper 5 hole Mount) with MS27508E10A-5P connector
01-0790044-54	01-0790088-17	01-790724-17	Anti-Collision Light (lower 5 hole Mt.) cable pigtail, 2 lens drain holes (Hawkers)
01-0790044-17	01-0790088-18	01-0790724-18	Anti-Collision Light (Upper 8 hole Mount) cable pigtail
01-0790044-19	01-0790088-19	01-0790724-19	Anti-Collision Light (Lower 8 hole Mount) cable pigtail



SELF CONTAINED ANTI-COLLISION

90852 SERIES

The Model 90852 Series is an FAA/TSO Approved self-contained LED anti-collision beacon. It's solid-state circuitry and LED light source allow for replacement of the legacy Whelen 90033 series halogen flashing beacons. Benefits include no moving parts, no EMI/RFI, no inrush current spikes and crisp on off cycles. There are several models available to provide compatibility with existing mounting patterns and profiles of the legacy beacons, thus eliminating the need to alter the aircraft. See cross reference chart.

PART#	MODEL/ DESCRIPTION	APPROVALS
01-0790852-03	LED Anti-Collision light 8 hole mount Red (Lower Mount)	FAA/TSO-C96a Class III
01-0790852-04	LED Anti-Collision light 8 hole mount White (Lower Mount)	FAA/TSO-C96a Class III
01-0790852-05	LED Anti-Collision light 5 hole mount Red (Upper Mount)	FAA/TSO-C96a Class III
01-0790852-06	LED Anti-Collision light 5 hole mount White (Upper Mount)	FAA/TSO-C96a Class III
01-0790852-08	LED Anti-Collision light 5.12" Diameter round mount White (Lower Mount)	FAA/TSO-C96a Class III
01-0790852-5D	LED Anti-collision light 5 hole mount RED (Lower Mount)	FAA/TSO-C96a Class III



LED PART	LEGACY PART	BEECH PART	AIRCRAFT MODEL	DESCRIPTION
01-0790852-03	01-0790033-03	101-360020-15	Beech King Air 300 SN: FA1 through FA112; C90 SN: LJ-1138 and after	8 Hole Lower - White Flashing
01-0790852-06	01-0790033-06	101-360020-17	Beech King Air; B200 SN: BB-1133, BB-1141, BB-1145 and After; B200C SN: BL-69 and After; B200GT SN:BY-1 and After; 300 SN: FA1 through FA112; B300 SN: FL-1 and After; B300C SN: FM-1 and After; 1900 Airliner SN UB-62 and After * Also used on King Air 200 with Kit 101-3093 Installed.	5 Hole Upper - White Flashing
01-0790852-5D	01-0790033-05	101-360020-15	Beech King Air; B200 SN: BB-1133, BB-1141, BB-1145, and After; B200C SN: BL-69 and After; B200GT SN: BY-1 and After; 300 SN:FA1 through FA112; B300 SN: FL-1 and After; B300C SN: FM-1 and After; 1900 Airliner SN: UB-62 and After.	5 hole Lower - Red Flashing

SELF CONTAINED ANTI-COLLISION

90033 SERIES

Self-contained, 150 watt, quartz halogen flashing anti-collision light which is factory installed on Beechcraft. It is also a direct replacement for oscillating beacons on most corporate aircraft.



DRAWING#	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	LENS
90033	0.6 lbs. (272gm) to 0.9 lbs. (408gm)	4.4" (112mm)	5.5 amps @ 28 VDC	Aviation Red Aviation White	Glass

MODEL	PART#	DESCRIPTION	LENS	MOUNT	BASE	APPROVALS
900331	01-0790033-01	Standard unit, 18" cable no connector	Red	Lower	2 Hole	FAA-TSO-C96a
900333	01-0790033-03	18" cable, AMP #207846-1, 2 Position connector	Red	Lower	8 Hole	FAA-TSO-C96a
900334	01-0790033-04	18" cable, AMP #207846-1, 2 Position connector	White	Lower	8 Hole	FAA-TSO-C96a
900335	01-0790033-05	18" cable, AMP #207846-1, 2 Position connector	Red	Upper	5 Hole	FAA-TSO-C96a
900336	01-0790033-06	18" cable, AMP #207846-1, 2 Position connector	White	Upper	5 Hole	FAA-TSO-C96a
900335D	01-0790033-5D	18" cable, AMP #207846-1, 2 Position connector	Red	Lower	5 Hole	FAA-TSO-C96a
900336D	01-0790033-6D	18" cable, AMP #207846-1, 2 Position connector	White	Lower	5 Hole	FAA-TSO-C96a
900337	01-0790033-07	5.12" Dia. mounting base, MS3102R10SL-3P connector	Red	Lower	Round	FAA-TSO-C96a
900338	01-0790033-08	5.12" Dia. mounting base, MS3102R10SL-3P connector	White	Lower	Round	FAA-TSO-C96a
900339	01-0790033-09	18" cable, AMP #208530-1, 8 Position connector	Red	Lower	8 Hole	FAA-TSO-C96a
9003310	01-0790033-10	18" cable, AMP #208530-1, 8 Position connector	White	Lower	8 Hole	FAA-TSO-C96a
9003312	01-0790033-12	AMP #1-480698-0, 2 Position connector (Beech 1900)	White	Upper	5 Hole	FAA-TSO-C96a
9003313	01-0790033-13	No connector, 13" leads (Cessna CJ1, CJ2)	Red	Upper	2 Hole	FAA-TSO-C96a
9003324	01-0790033-24	AMP #207567-1, 3 Position connector (Beech 1900)	White	Lower	8 Hole	FAA-TSO-C96a
9003325	01-0790033-25	MS3102R10SL-3P connector on mounting bracket (Beech Jet)	Red	Upper	5 Hole	FAA-TSO-C96a

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SELF CONTAINED ANTI-COLLISION



BEECH MODELS FOR 90777 LIGHT

MODEL	DESCRIPTION	MODEL	DESCRIPTION
C90	Serials LJ-1063 through LJ-1846	B200GT	Serials BY-001 (w/o Winglets)
C90GT	Serials LJ-1847 and After	1900	Serials UA-all, UB-all, UC-all
F90	All Serial Numbers	300	Serials FA-001 and After
B200*	Serials BB-1133, BB1141, BB-1145 and After	E90	Serials LW200 and After
B200C*	Serial BL-69 through BL-72, BL-124 and After		

90777 SERIES

LED direct replacement for the 90029 series. Contact factory for more details.



MODEL	PART#	DESCRIPTION	WEIGHT	CROSS REF	CURRENT DRAW	APPROVALS
90777L0	01-0790777-L0	Red Position / Anti-collision assembly with recognition light 28 VDC	1.9 lbs (862gm)	01-0790029-01	Position light - 0.25 amps	TSO-C30C / TSO-C96A
90777L1	01-0790777-L1	Red Position / Anti-collision light without recognition light 28 VDC	1.5 lbs (680gm)	01-0790029-02	Anti-collision light	
90777R0	01-0790777-R0	Green Position / Anti-collision assembly with recognition light 28 VDC	1.9 lbs (862gm)	01-0790029-03	- 0.47 amps Recognition light	
90777R1	01-0790777-R1	Green Position / Anti-collision assembly without recognition light 28 VDC	1.5 lbs (680gm)	01-0790029-04	- 0.45 amps	



POSITION LIGHTS



LEGACY W1258 SERIES
For Reference Only



71105 SERIES

71105 Series are fully TSO approved Forward Position lights. LEDs provide a significant reduction in electrical current draw over conventional light bulbs. Replaces W1285 (below).

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7110501	01-0771105-01	Position Green, 14 VDC	0.20 lbs. (91gm) 14 VDC 0.25 lbs. (113gm) 28 VDC	Exposed Height: 1.08" (27.43mm) x 1.77" (44.95mm) x 3.88" (98.55mm)	0.25 amps @ 14 VDC or 28 VDC	Clear Polycarbon- ate	TSO-C30c Type II
7110502	01-0771105-02	Position Red, 14 VDC					TSO-C30c Type I
7110503	01-0771105-03	Position Green, 28 VDC					TSO-C30c Type II
7110504	01-0771105-04	Position Red, 28 VDC					TSO-C30c Type I

71379 SERIES

71379 Series is an LED Forward Position light designed to be located under a fairing, but is suitable for external mounting as well. Replaces GRIMES A1815A and Whelen W1250 (below). Product ships with 6" flying leads A1825.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7137911	01-0771379-11	LED Forward POS (Green), 14 VDC	0.23lbs (104gm)	Exposed Height: 1.25" (31.75mm) x 1.75" (44.45mm) x 2.31" (58.67mm)	0.25 Amps @ 28 VDC	Clear Polycarbon- ate	TSO-C30c Type II
7137912	01-0771379-12	LED Forward POS (Red), 14 VDC					TSO-C30c Type I
7137901	01-0771379-01	LED Forward POS (Green), 28 VDC					TSO-C30c Type II
7137902	01-0771379-02	LED Forward POS (Red), 28 VDC					TSO-C30c Type I

71379 CROSS REFERENCE

LEGACY MODEL	LEGACY PART#	REPLACED BY MODEL	REPLACED BY PART #
W1250PR1	01-0770082-00	7137912	01-0771379-12
W1250PG1	01-0770082-02	7137911	01-0771379-11
W1250PR2	01-0770082-01	7137902	01-0771379-02
W1250PG2	01-0770082-03	7137901	01-0771379-01
W1250BPR	01-0770082-05	7137952	01-0771379-52
W1250BPG	01-0770082-07	7137951	01-0771379-51
7008213	01-0770082-12	7137922	01-0771379-22
7008213	01-0770082-13	7137923	01-0771379-23



LEGACY W1250 SERIES
For Reference Only



71554 SERIES

71554 Series in our newest LED Tail Position Light. Exact Footprint for Whelen Models A555A and 71011 Taillights. Available in horizontal or vertical mount. Models -01 and -02 come with flying leads. Model -03 has a pin and a ring terminal for connections.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7155411	01-0771554-11	Horizontal mount, 14 VDC	.14 lbs. (64gm)	Exposed Height: 1.4" (35.56mm) x 1.59" (40.38mm) x 2.07" (52.57mm)	.13 A @ 28 VDC .25 A @ 14 VDC	Clear Hard-coated Polycarbon- ate	STC / TSO/ETSO-C30c Type III
7155412	01-0771554-12	Vertical mount, 14 VDC					STC / TSO/ETSO-C30c Type III
7155401	01-0771554-01	Horizontal mount, 28 VDC					STC / TSO/ETSO-C30c Type III
7155402	01-0771554-02	Vertical mount, 28 VDC					STC / TSO/ETSO-C30c Type III

STC'd SA800EA



LEGACY A555A SERIES
For Reference Only

90377 SERIES

90377 Series is a Wingtip mounted Position light assembly utilizing LED's for both the forward (Red/Green) & tail position (White) lights, eliminating the need for a tail mounted position light. The LED's provide a significant reduction in current draw over conventional position light bulbs. Direct replacement (exact footprint) for the Whelen Model A675PG/PR Series (right). Single set of flying leads operates both Forward & Tail Nav on 28 VDC version, and one set each of flying leads for the Forward & Tail Nav on the 14 VDC version.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
9037701	01-0790377-01	Position Green, 14 VDC	0.35 lbs. (159gm)	Exposed Height: 1.08" (27mm) x Exposed Width: 1.87" (47mm) x Exposed Length: 5.69" (145mm)	0.5 amps @14 VDC 0.25 amps @ 28 VDC	Clear Hard-coated Polycarbonate	TSO-C30c Types II & III
9037702	01-0790377-02	Position Red, 14 VDC					TSO-C30c Types I & III
9037703	01-0790377-03	Position Green, 28 VDC					TSO-C30c Types II & III
9037704	01-0790377-04	Position Red, 28 VDC					TSO-C30c Types I & III

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WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.

POSITION LIGHTS

CHROMA™ SERIES

LED technology is optimal for aviation applications. Whelen Aerospace LED lights are time and field tested for reliability and long-life performance under the harsh conditions faced by Fire, DOT, and Law Enforcement professionals around the world. Whelen Aviation Products exceed industry standards. Whether installed on a Boeing 737, a Gulfstream 650, a high altitude reconnaissance aircraft, or on helicopters operating in the North Sea, Whelen products are trusted to perform in every imaginable environment.



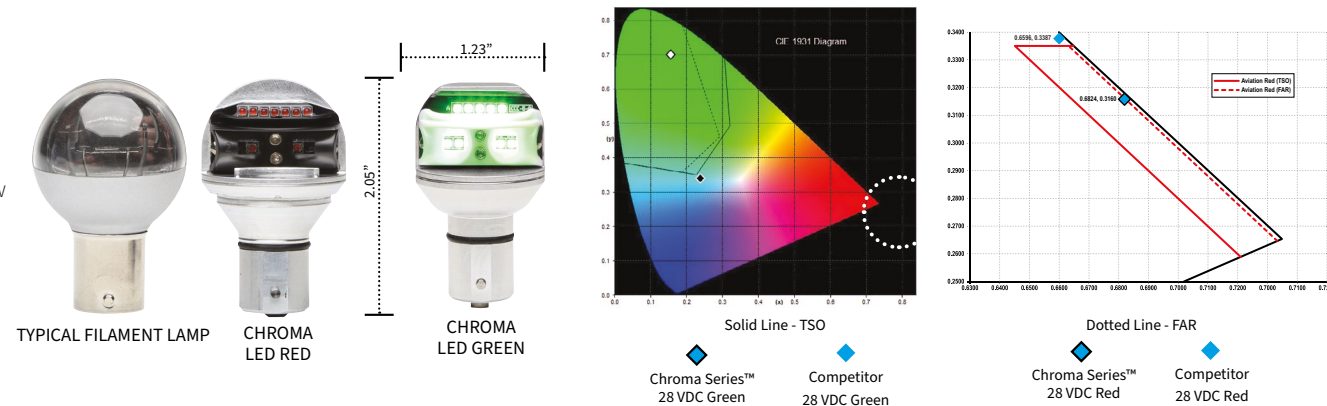
- Direct replacements for W129028 / 129028 / A7512-24 / W628 628 incandescent bulbs
- Unique reflector design allows for full FAR coverage compliance
- Robust machined base provides vibration resistance tested in accordance with RTCA/DO160 CAT U2, Curves F, F1 for rotorcraft
- All electronic logic conformal coated for weather resistance
- O Ring allows for a more secure connection to lamp socket, reducing wear over time
- Nickel Plated hard contact eliminates premature wear
- Keeps original lens configuration to maintain FAA approvals of light assembly
- LED bulbs have a 10,000 hour operating life, while incandescent bulbs have a fragile filament and a 300 hour average life
- NO EMI / RFI interference, as Chroma bulbs are built using fixed current sources
- 85% reduced current draw
- Five year warranty
- FAA TSO Approved
- STC Approved

MODEL	PART#	DESCRIPTION	CURRENT DRAW	DIMENSIONS	APPROVALS
CHROMA2R	01-0771900R28	Chroma Position LED Lamp, 28 VDC, Red	0.15 Amps @ 28 VDC	2.05" H x 1.23" W	FAA / STC
CHROMA2G	01-0771900G28	Chroma Position LED Lamp, 28 VDC, Green			FAA / STC
CHROMA1R	01-0771900R14	Chroma Position LED Lamp, 14 VDC, Red	0.30 Amps @ 14 VDC		FAA / STC
CHROMA1G	01-0771900G14	Chroma Position LED Lamp, 14 VDC, Green			FAA / STC



CHROMATICITY

- Meets all FAR requirements for Chromaticity, Intensity, and Coverage FAR Part 23.1383 through 23.1397, FAR Part 27.1383 through 27.1397
- RED & GREEN color specific. Dominant wavelengths allow for meeting FAR requirements through a wide variety of aviation Red & aviation Green lenses
- Fixed current source design provides consistent light output compared to filament lamps and LED resistor type designs, resulting in complete FAR compliance



70963 SERIES

Model 70963 series is designed to replace existing incandescent & halogen position lights used on most business and commuter jets. The benefits of LED technology will drastically reduce operating costs and improve reliability over the existing lighting. The 70963 series are warranted to comply with FAA color & light output regulations for 5 years or 10,000 hours.

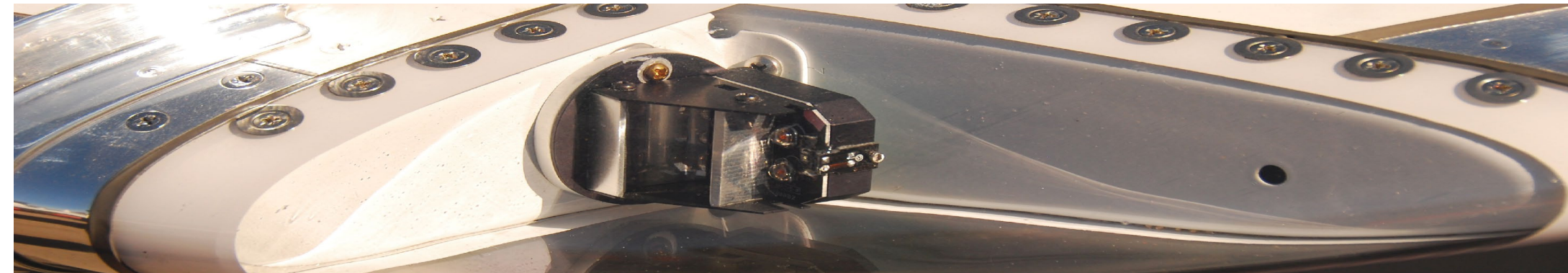


MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7096303	01-0770963-03	Green Position Light	0.25 lbs. (113gm)	Exposed Height: 1.98" (50mm) x 2.10" (53mm)	0.3 amps @ 28 VDC Input Voltage 22-30 VDC	-	FAA TSO-C30c Type II
7096304	01-0770963-04	Red Position Light					FAA TSO-C30c Type I

71015 SERIES

Model 71015 Series are FAA TSO'd forward position lights. They are compatible with the Whelen W1250 position light mounting as well as any other make that uses the same mounting pattern. Not intended for external mounting.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7101501	01-0771015-01	Green Position Light, 28 VDC	0.2 lbs. (91gm)	Exposed Height: 1.33" (34mm) x 2.41" (61mm)	0.3 amps @ 28 VDC	-	FAA TSO-C30c Type II
7101502	01-0771015-02	Red Position Light, 28 VDC					FAA TSO-C30c Type I
7101507	01-0771015-07	Green Position Light, 28 VDC, Cessna					FAA TSO-C30c Type II
7101508	01-0771015-08	Red Position Light, 28 VDC, Cessna					FAA TSO-C30c Type I



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PARMETHEUS™ G3 SERIES

Whelen Aerospace Technologies is proud to announce the newest member of the Parmetheus™ product family, The Parmetheus™ G3. Keeping the tradition of industry leading performance and value, the new G3 Series is 2.5 times brighter than the Parmetheus™ Plus all while maintaining the same form, fit and functionality of a drop-in LED replacement for legacy landing lights. Available in PAR-36 size, the G3 is now available in variable voltage 14-28V.

- Industry Leading Performance
- Minimal reduction in output over time due to thermal overload
- Variable voltage 14-28 VDC
- 5 year warranty
- RTCA DO-160 Environmental Tested
- Now with sealed lens
- FAA STC Approved



LANDING LIGHT P36G3L

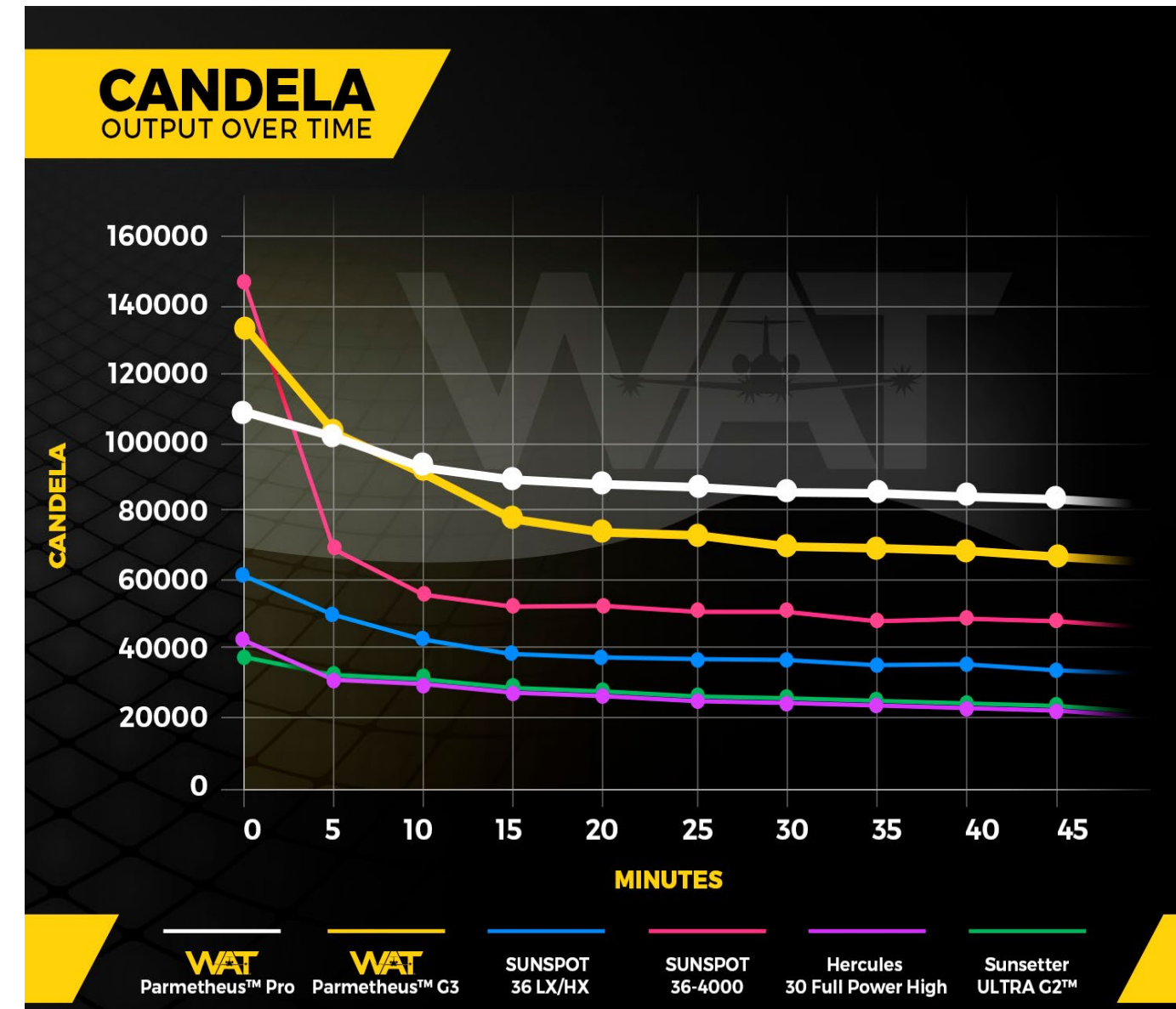


TAXI LIGHT P36G3T

MODEL	PART#	DESCRIPTION	TYPE	CANDLE POWER	AMPS & VOLTS
P36G3L	01-0772102-10	PARMETHEUS™ G3 PAR 36 LANDING 14V-28V	Landing Light	136,273	3.8 Amps @ 14 VDC 1.9 Amps @ 28 VDC
P36G3T	01-0772102-15	PARMETHEUS™ G3 PAR 36 TAXI 14V-28V	Taxi Light	35,000	



TEST RESULTS



The test data above were taken from a certified independent lab indicating beam candlepower at the specific measurements of time.



BULB CHART

GE BULB #	G3	PRO	PLUS
4416	P36G3L	P36PRO	P36P1L
4505	P36G3L	P36PRO	P36P2L
4509	P36G3L	P36PRO	P36P1L
4587	P36G3T	P36PRO	P36P2T
4591	P36G3L	P36PRO	P36P2L
4593	P36G3L	P36PRO	P36P2T
4594	P36G3L	P36PRO	P36P2L
4595	P36G3L	P36PRO	P36P1L
4596	P36G3L	P36PRO	P36P2L
4623	P36G3T	P36PRO	P36P2T
4626	P36G3L	P36PRO	P36P2T
4627	P36G3L	P36PRO	P36P2T
Q4631	P36G3L	P36PRO	P36P1L
Q4632	P36G3L	P36PRO	P36P1L
4413	-	P46PRO	P46P1L
4313	-	P36PRO	P361T
4421	-	P46PRO	P46P1L
4435	-	P46PRO	P46P1L
4522	-	P46PRO	P46P1L
4537	-	P46PRO	P46P1L
4551	-	P46PRO	P46P2L
4553	-	P46PRO	P46P2L
4554	-	P46PRO	P46P2L
Q4554	-	P46PRO	P46P2L
Q4566	-	P46PRO	P46P2L
4570	-	P46PRO	P46P2L
4571	-	P46PRO	P46P2L

PARMETHEUS™ PRO REPLACEMENT LANDING LIGHTS

PARMETHEUS™ PRO SERIES

- 5-year warranty
- Simple drop-in replacement
- 60-day product buyback
- Patented technology
- FAA STC's included for piston and turboprop aircraft. Jet STCs are available at an additional cost.
- FAA STC& EASA Approvals for 500+ aircraft - Jet, Turbine, Piston, and Rotorcraft.
- Heat sink on front of LED to prevent frosting in icing conditions.
- Operating voltage 14-28 VDC



MODEL	PART#	DESCRIPTION	CANDLE POWER	AMPS & VOLTS
P36PRO	LSM-SCD-042-1	PAR-36 PRO LANDING	106,169	.9 AMPS @ 28 VDC 1.7 AMPS @14 VDC
P46PRO	LSM-SCD-039-1	PAR-46 PRO LANDING	175,557	1.4 AMPS @ 28 VDC 2.9 AMPS @ 14 VDC



PARMETHEUS PLUS™ REPLACEMENT LIGHTHEADS

PARMETHEUS PLUS™ SERIES

Introducing Parmetheus Plus PAR-36 and 46 Series from Whelen Engineering. Performance you can trust... NOW 40% BRIGHTER! LED lighting is the ideal technology for aviation applications. Whelen LED lights are time and field-tested for reliability and long-life performance under the tough conditions required by Fire, Emergency, DOT and Law Enforcement professionals around the world. Parmetheus Plus PAR-36 and 46 Super-LED lights are a drop-in replacement for outdated Halogen or HID lamps. Lightweight, low-current and moisture resistant, they provide stable light output for thousands of operating hours.



- Retrofitting for PAR-36 & 46 Halogen and HID lamps
- “Drop-In” design offers easy installation and maintenance:
 - Power wiring attaches to brass screw terminals
 - Weight is virtually identical to previous lamps
 - Assembly design includes clocking notch
- First FAA Approved PAR-36 & 46 Super-LED for Aviation applications
- Optical spot and flood combinations via Whelen’s TIR™ (Total Internal Reflector) technology
- Replaceable, hard-coated, polycarbonate outer lens and metal, heat dissipating housing are moisture resistant
- PAR-36 available in Landing and Taxi versions
- Proudly designed and manufactured in the USA
- Five year warranty



MODEL	PART#	DESCRIPTION	TYPE	CANDLE POWER	AMPS & VOLTS	MISC
P36P1L	01-0771833-10	PAR 36 LANDING 14 VDC	Landing Light	60,000	1.36 Amps @ 14 VDC	Replacement Outer Lens: 68-3971486A-30
P36P1T	01-0771833-15	PAR 36 TAXI 14 VDC	Taxi Light	15,000		
P36P2L	01-0771833-20	PAR 36 LANDING 28 VDC	Landing Light	60,000	.68 Amps @ 28 VDC	Replacement Outer Lens: 68-3971577A30 WAT Drawing Number: 90750
P36P2T	01-0771833-25	PAR 36 TAXI 28 VDC	Taxi Light	15,000		
P46P1L	01-0790750-10	PAR 46 LANDING 14 VDC	Landing Light	105,000	2.6 Amps @ 14 VDC	Replacement Outer Lens: 68-3971577A30 WAT Drawing Number: 90750
P46P2L	01-0790750-20	PAR 46 TAXI 28 VDC	Landing Light	105,000		

STC Approved

EXTERIOR LIGHTHEAD MODULES



90361 SERIES

Model 90361 Series is a self-contained all LED Landing Light Assembly. The design is intended to provide a solution to the needs for a Taxi & Landing Light on a wide variety of aircraft. All current source and electronic circuitry is contained within the housing. Unit is available in several mounting configurations to retrofit existing typical PAR-36 lighting. Outer lens allows for mounting externally on aircraft, option of diffusion lens available upon request. Item ships with flying leads. Contact your OEM for installation eligibility on your aircraft.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
9036120	01-0790361-20	LED Landing, 28 VDC with "U" bracket, Spot	1.3 lbs (590gm)	Exposed Diameter: 4.70" (119mm) x Overall Depth: 2.87" (73mm)	1.5 amps @ 28 VDC	Clear Polycarbonate	-
9036125	01-0790361-25	LED Taxi, Spreader optic, 28 VDC with "U" bracket, Flood					



71141 SERIES

Model 71141 Series is a self-contained all LED Landing Light Assembly. The design is intended to provide a solution to the needs for a Taxi & Landing Light on a wide variety of aircraft. All current source and electronic circuitry is contained within the housing. Unit is available in several mounting configurations to retrofit existing typical PAR-36 lighting. Unit is designed to be mounted internally behind existing lens. Item ships with flying leads. Contact your OEM for installation eligibility on your aircraft.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7114112	01-0771141-12	LED Landing/Taxi light, internal mount 14 VDC	1.0 lbs. (454gm)	Exposed Diameter: 4.46" (113mm) x Overall Depth: 1.90" (48mm) (64mm)	2.0 amps @ 14 VDC	Clear Polycarbonate	-
7114122	01-0771141-22	LED Landing/Taxi light, internal mount 28 VDC			1.3 amps @ 28 VDC		

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WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.



90352 SERIES

Model 90352 Series is a self-contained all LED Landing Light Assembly. The design is intended to provide a solution to the needs for a Taxi & Landing Light on a wide variety of aircraft. All current source and electronic circuitry is contained within the housing. Unit is available in several mounting configurations to retrofit existing typical PAR-46 lighting. Unit is designed to be mounted internally behind existing lens. Special models available with MS power input connector vs. flying leads as standard option. Contact your OEM for installation eligibility on your aircraft.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
9035200	01-0790352-00	LED Landing/Taxi light (natural finish)	2.2 lbs (998gm)	Exposed Diameter: 5.90" (150mm) x Overall Depth: 3.18" (81mm)	3 amps @ 28 VDC	Clear Polycarbonate	-
9035220	01-0790352-20	LED Landing/Taxi light (Black finish)					

90433 SERIES

Model 90433 is a 6 inch round, internal (non-weatherized) LED illumination product. It is styled after a PAR-46 lamp and housing internal combination. 90433 cannot "fit" in place of a 6 inch light bulb. Technology considerations require a stand alone approach requiring a degree of customization to the aircraft. Unit ships with 10" of 18ga flying leads. 28 VDC only. Contact your OEM for installation eligibility on your aircraft.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
9043300	01-0790433-00	6" LED Landing light	1.7 lbs. (771gm)	5.75" (146mm) x 1.11" (28mm) outer ring depth, x 2.61" (66mm) overall depth	2 amps	Clear Polycarbonate	-



71125 SERIES

Model 71125 Series LED recognition light is designed to provide supplemental lighting for a wide variety of aircraft applications. Provides all of the advantages of LED's as a light source, no EMI/RFI, low current draw, low heat, long life. Perfect for vibration prone areas. Item ships with flying leads. Several different beam spreads available. Version containing integrated MS connector also available.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	CANDLE POWER
7112510	01-0771125-10	10 degree beam pattern, 14 VDC	0.3 lbs. (136gm)	1.95" (50mm) x 3.25" (83mm) x 1.25" (32mm) Overall Depth	0.9 amps @ 14 VDC, 0.45 amps @ 28 VDC	Clear Polycarbonate	30,000+
7112511	01-0771125-11	20 degree beam pattern, 14 VDC					
7112512	01-0771125-12	90 degree beam pattern, 14 VDC					
7112520	01-0771125-20	10 degree beam pattern, 28 VDC					
7112521	01-0771125-21	20 degree beam pattern, 28 VDC					
7112522	01-0771125-22	90 degree beam pattern, 28 VDC					

Order RECLENS to obtain a kit of 20, 30 and 90 degree Lens Optic Inserts



WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.

EXTERIOR LIGHTHEAD MODULES

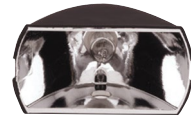
71888/ 71898 LED RECOGNITION LIGHT REPLACEMENT FOR A775

LED Form / Fit / Function replacement to A775 & A775EXP series. Contact factory for more details.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	CANDELA	LENS	APPROVALS
7188800	01-0771888-00	LED Recognition Light Assembly, 14 VDC	0.25 lbs (113gm)	3.16" (80mm) x 1.65" (42mm) x 1.47" (37mm)	0.6 amps	30,000	Clear Polycarbonate	-
7188801	01-0771888-01	LED Recognition Light Assembly, 28 VDC			0.3 amps			-
7187601	01-0771876-01	Gulfstream specific. Gulfstream bracket, 28 VDC						-
71898P0	01-0771898-P0	Beech Specific. Paint., 28 VDC						-
7189801	01-0771898-01	Beech Specific. Terminals, 28 VDC						PMA

71888/71898 CROSS REFERENCE

LEGACY MODEL	LEGACY PART #	REPLACED BY MODEL	REPLACED BY PART #
A77514	01-0770110-04	7188800	01-0771888-00
7045300	01-0770453-00	7189800	01-0771898-00
7045301	01-0770453-01	71898P0	01-0771898-P0
7045302	01-0770453-02	7188800	01-0771888-00
7042900	01-0770429-00	7189801 (NOTE 1)	01-0771898-01



LEGACY A775 SERIES
For Reference Only



71685 SERIES

71685 Series LED Recognition/Landing light assembly. Available with a polycarbonate 30° optic spreader lens for taxiing.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	CANDLE POWER
7168501	01-0771685-01	LED recognition light 14 VDC	0.28 lbs. (127gm)	2.07" (53mm) x 3.64" (93mm) x Depth: 0.979" (25mm)	0.44 amps (28VDC)	Clear Polycarbonate	12,000
7168500	01-0771685-00	LED recognition light 28 VDC			1.0 amps (14VDC)		



MODEL 71325

Model 71325 is an LED Recognition/Exterior illumination product. It is an updated version of Model 71092 recognition light (2008 Catalog). Model 71325 exceeds light output of 71092 three fold. Unit ships with 7" wires into A447 style pin connector. Will operate from 14-28VDC.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	CANDLE POWER
71325	01-0271325-00	LED recognition light	0.17 lbs. (77gm)	1.45" (37mm) Center to Center Mounting Holes (Height) x 2.56" (65mm) x 1.38" (35mm)	0.25 amps	Clear Polycarbonate	12,000



MODEL 71674

Model 71674 is an Interior mounted LED Landing/Taxi/Recognition light. The unit comes with equipped with 8" flying leads. Contact Whelen factory for installation eligibility on your aircraft.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	CANDELA	LENS	APPROVALS
71674	01-0771674-00	Landing/taxi/recognition 28 VDC	1.4 lbs (64 gm)	3.25" (82.5mm) x 2.19" (55.62mm) x 5.40" (137mm)	Landing 1.5 amps, taxi 0.5 amps, 28 VDC	140,000	Clear	-



70303 SERIES

70303 Series Wingtip Recognition light assembly using a 25 watt halogen lamp. Used on Mooney Aircraft.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7030300	01-0770303-00	Recognition Light 14 VDC	0.1 lbs. (45gm)	1.25" (32mm) x 2.1" (53mm) x 1.8" (46mm)	2 amps @ 14 VDC, 1 amp @ 28 VDC	-	FAA/PMA
7030301	01-0770303-01	Recognition Light 28 VDC					-



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EXTERIOR LIGHTHEAD MODULES



MODEL 71186

Model 71186 is a compact illumination solution that can be utilized in many lighting upgrade situations (see also 71325). 71186 ships with 6" flying leads. Optimized for 28 VDC, will operate from 14-28 VDC.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	CANDELA	LENS	APPROVALS
71186	01-0771186-01	LED downwash light	0.2 lbs. (91gm)	1.95" (50mm) Inner Dia, 2.15" (55mm) Outside face, 1.0" (25mm) Overall depth	0.25a	4,800	Clear Polycarbonate	-

71280 SERIES

71280 Series utilized Model 71325 hidden inside the optic housing. Optic lens is intended to be flush mounted to skin of aircraft (Black portion of assembly remaining inside aircraft), creating the 'hot' spot 20 degrees behind center viewing. Housing constructed from polycarbonate with an aluminum back plate (see 71325). Optimized for 28VDC, will operate form 14-28 VDC.



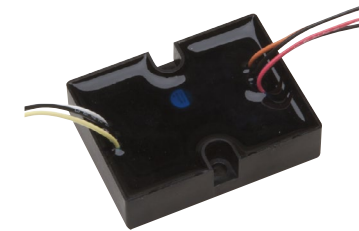
MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7128010	01-0771280-10	LED Ice Detection (LH)	0.3 lbs. (136gm)	2.01" (51mm) H x 2.7" (69mm) D x 4.28" (109mm) L	-	Polycarbonate	-
7128020	01-0771280-20	LED Ice Detection (RH)					

71156 SERIES

Model 71156 Series is an electronic 'Pulse' light flasher for use with Whelen Taxi & Landing LED lightheads (catalog and custom versions). 71156 is being integrated into aircraft model upgrades and new type certified aircraft. Flasher operates four outputs steady on or will allow two outputs to be flashed or steady independent of the other. MS Connectors with aluminum housing. Tested in accordance with RTCA/DO-160 Environmental Tests.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
7115604	01-0771156-04	LED Flasher Assembly, 4 Output	1.1 lbs. (499gm)	5.0 (127mm) x 1.8 (46mm) x 4.56 (116mm)	20A max (all outputs) @ 28V	-



71700 SERIES

Model 71700 is an electronic light flasher for use with Whelen LED Exterior lighting products. The flasher operates two outputs steady on or will flash outputs alternately. This has the operating ability to handle up to 4 amps of power.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
71700	01-0771700-00	Electronic light flasher	0.14 lbs (64gm)	0.54" (14mm) x 2.04" (52mm) x 2.74" (70mm)	4 amps max (all ouputs)	-

MODEL 71375

Model 71375 is an electronic light Flasher for use with Whelen LED Exterior Lighting products (catalog and custom versions). Flasher operates two outputs steady on or will flash outputs alternately. D389999 connectors pictured. Aluminum housing. Tested in accordance with RTCA/DO-160 Environmental standards.



MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	FLASH RATE
7137500	01-0771375-00	LED Flasher Assembly	0.5 lbs. (227gm)	Exposed height: 1.56" (40mm) x 3.5" (89mm) x 4.5" (114mm)	5A max (all outputs) @ 28 VDC	90 fpm (combined)

PAR LAMP SERIES

Whelen's family of quartz halogen PAR lamps offer two distinct features over standard incandescent PAR lamps; sustained light intensity and 10 times the average life. Tests have shown 250 hours lab life versus 25 for standard off-the-shelf lamps. This dramatically reduces costs associated with replacement labor and parts. Where incandescent lamps decline in intensity (beam candlepower) over time due to filament deterioration, Whelen's family of lamps maintain their rated intensity throughout their life providing a constant level of visibility.



MODEL	PART#	DESCRIPTION	VOLTAGE	WATTAGE	CANDELA	APPROVALS
Q4509	34-0750748-00	Par-36 Landing	14 VDC	100	140,000	FAA/PMA
Q5587	34-0750707-00	Par-36 Taxi	28 VDC	250	40,000	FAA/PMA
Q5596	34-0750692-00	Par-36 Landing	28 VDC	250	150,000	FAA/PMA
Q4591	34-0750767-00	Par-36 Landing	28 VDC	100	90,000	FAA/PMA
Q4566	34-0750810-00	Par-46 Landing	28 VDC	450	150,000	FAA/PMA
Q4559XX	34-0750820-00	Par-64 Landing	28 VDC	600	765,000	FAA/PMA
Q4681	34-0850839-00	Par-46 Landing	28 VDC	450	310,000	-

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EXTERIOR LIGHTHEAD MODULES



A715-1 SERIES

A715-1 Series are fixtures that can accommodate a standard PAR-36 lamp assembly, available with or without a lamp. Used on Beechcraft.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	APPROVALS
A7151	01-0770155-00	Housing only, less lamp	0.4 lbs. (181gm) less lamp	2.12" (54mm) x 4.75" (121mm)	FAA/PMA
7015502	01-0770155-02	Housing with #Q5596 lamp	1.0 lbs. (454gm) with lamp		-



EXTERIOR LIGHTHEAD MODULES

90095 SERIES

90095 Series are fixtures that can accept a standard PAR-46 lamp, sold with/without a lamp.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
9009504	01-0790095-04	Right Side mounting w/4580 lamp	0.42 lbs. (191gm) Weight less lamp	Depth: 2.9" (74mm) x Diameter: 6.0" (152mm)	-	-
9009505	01-0790095-05	Left Side mounting w/4580 lamp				
9009507	01-0790095-07	Housing only, less lamp				



72041 SERIES



72041 Series LED Ice Detection light assembly is sealed for a pressure differential of 10 psi. Model 7240100 is a direct replacement for 01-0790093-00 halogen light assembly.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
7204100	01-0772041-00	ICE Detection Light assembly, 28 VDC Direct replacement for 01-0790093-00	0.2 lbs. (91gm)	2.0" (51mm) x 2.0" (51mm) x 1.10" (28mm)	0.9 amps @28 VDC	-
7204101	01-0772041-01	ICE Detection Light assembly, 28 VDC Piper specific				

90195 SERIES

90195 Series are fixtures that can accommodate a standard PAR-36 lamp, available with or without a lamp.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	APPROVALS
9019500	01-0790195-00	Housing only, less lamp	0.5 lbs. (227gm) (less lamp)	3.03" (77mm) x 4.88" (124mm)	-
9019501	01-0790195-01	With #4596 lamp			
9019502	01-0790195-02	With #Q5596 lamp			
9019503	01-0790195-03	With #4587 lamp			
9019504	01-0790195-04	With #Q5587 lamp	1.0 lbs. (454gm) (with lamp)		



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INTERIOR LIGHTING

MODEL 71144

Features a positive off position & rheostat controlled light intensity. Available in 28VDC only. Models including 'side' mounted intensity control are available which is designed for the S76D.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	HOOD	APPROVALS
7114416	01-0771144-16	LED Adjustable (Gooseneck) Map Light 16"	0.46 Lbs (209gm)	16" (406mm)	0.06 Amps @ 28V	Black Nylon Hood: fixed in position	-



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INTERIOR LIGHTING

70348 SERIES



Instrument post light assemblies designed to illuminate the instrument panel and function as instrument mounting bolts. The unit has a #10-32 mounting thread and uses the #327 lamp (available in 28 VDC only).

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7034800	01-0770348-00	Instrument White, 28 VDC	0.037 lbs. (17gm)	Exposed Height: 0.856" (22mm)	0.04 amps @ 28 VDC	Polycarbonate	-
7034801	01-0770348-01	Red with spacer, 28 VDC					
7034802	01-0770348-02	Clear, 28 VDC					
7034803	01-0770348-03	Red, 28 VDC					

A350 & A350CN SERIES



Instrument post light assemblies designed to illuminate the instrument panel and function as instrument mounting bolts. The A350 is identical to the A350CN, but without the connector nut. Please refer to Pspot Light Cross Reference list in back for full details.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
A350	01-0770116-(-)	Instrument post light assemblies	0.037 lbs. (17gm)	Exposed Height: 0.95" (24mm) with spacer 0.875" (22mm) without spacer	0.2 amps @ 6 VDC 0.08 amps @ 14 VDC 0.04 amps @ 28 VDC	-	-
A350CN	01-0770119-(-)	Instrument post light assemblies					

70820 SERIES

Model 70820 Series are LED (Light Emitting Diode) interior map/reading light assemblies. They are designed for cabin, or cockpit illumination. It has a 360° swivel base, allowing for infinite light angle adjustment. Utilizing LED technology, the following advantages are offered: Long Life (approx. 20,000 hours); Reduced Power Consumption (compared to alternative light sources) and Shock Vibration Resistant.



MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	LENS	APPROVALS
7082000	01-0770820-00	White LED, natural aluminum finish, 14 VDC	70820	0.19 lbs. (86gm)	1.13" (28.7mm, base) x 1.34" (34mm) x 2.66" (67.56mm swivel dia.)	0.02 amps @ 14 VDC, 0.02 amps @ 28 VDC	Red White	-	-
7082002	01-0770820-02	White LED, Black anodized finish, 14 VDC							
7082004	01-0770820-04	Red LED, Black anodized finish, 14 VDC							
7082001	01-0770820-01	White LED, natural aluminum finish, 28 VDC							
7082003	01-0770820-03	White LED, Black anodized finish, 28 VDC							
7082005	01-0770820-05	Red LED, Black anodized finish, 28 VDC							

71434, 71440 & 71450 SERIES



NVIS Model Post Lights Now Available. Contact Factory

White
34-0618060-W0
Red
34-0618060-R0
Blue
34-0618060-B0
28 VDC LED's Listed
NVIS Green A
34-0618417-GA
NVIS Green B
34-0618417-GB

The 71434, 71440, & 71450 Series LED (Light Emitting Diode) instrument post light assemblies are designed to illuminate the instrument panel and function as instrument mounting bolts. They are a high quality, long lasting modern alternatives to standard incandescent post lights. Benefits of upgrading to LED technology include: Long Life (approx. 20,000 hours); Reduced Power Consumption (compared to conventional light sources); Shock & Vibration Resistance (no fragile filament to burn out); Light Color & Temperature (produces bright, crisp light); and No EMI or RFI Interference Model 71434 is identical to the 71450 without the connector nut. Both are available in Black and Grey. 14V version available with White LED, 28V version with White or Red. Made to replace existing A350 and A350CN assemblies. Model 71440 has a #10-32 mounting thread. 28V version available with White or Red LED. Available in Black. Made to replace Model 70348.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	APPROVALS
71434b11	01-0771434b-11	LED post light, 14 VDC, White long Black	0.037 lbs. (17gm)	Exposed Height: 0.95" (24mm) with spacer 0.875" (22mm) without spacer	.10 mA @ 14 VDC & 28 VDC	-	-
71434b13	01-0771434b-13	LED post light, 14 VDC, White short Black					
71434b20	01-0771434b-20	LED post light, 28 VDC, Red long Black					
71434b21	01-0771434b-21	LED post light, 28 VDC, White long Black					
71434b22	01-0771434b-22	LED post light, 28 VDC, Red short Black					
71434b23	01-0771434b-23	LED post light, 28 VDC, White short Black					
7144000	01-0771440-00	LED post light, 28 VDC, Red with psacer					
7144001	01-0771440-01	LED post light, 28 VDC, White					
7144002	01-0771440-02	LED post light, 28 VDC, Red					
71450b11	01-0771450b-11	LED post light, 14 VDC, White long Black					
71450b13	01-0771450b-13	LED post light, 14 VDC, White short Black					
71450b20	01-0771450b-20	LED post light, 28 VDC, Red long Black					
71450b21	01-0771450b-21	LED post light, 28 VDC, White long Black					
71450b22	01-0771450b-22	LED post light, 28 VDC, Red short Black					
71450b23	01-0771450b-23	LED post light, 28 VDC, White short Black					

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INTERIOR LIGHTING

A315-LO SERIES

Cockpit utility light assembly which rotates for convenience in reading maps and illuminating instrument panels. Optional right angle bracket available for ease of mounting. Uses a 14 VDC, #1893 or a 28 VDC, #1864 lamp.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	APPROVALS
A315LO14	01-0770106-00	14 VDC	0.06 lbs. (27gm)	2.18 (55mm) x 0.81 (21mm) x 0.81 (21mm)	0.33 amps @ 14 VDC	White	-
A315LO28	01-0770106-01	28 VDC			0.17 amps @ 28 VDC		



LEGACY A360 SERIES
For Reference Only



70813 SERIES

Model 70813 series LED interior cabin light is a high quality, long lasting, dimmer controllable, modern alternative to the A360 series incandescent interior cabin lights. It offers significant technological upgrades over previous products. Utilizing LED (Light Emitting Diode) technology, the following advantages are offered: Long Life (approx. 100,000 hours); Reduced Power Consumption (compared to alternative light sources); Shock & Vibration Resistant (no fragile filament to burn out); Light (produces bright White light); Small Profile (allows for shallow mounting depth) and No EMI or RFI Interference.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	LENS	APPROVALS
7081307	01-0770813-07	14 VDC	0.1 lbs. (45gm)	0.25 (6mm) x 4.0 (101mm) x 2.75 (70mm)	0.16 amps	Aviation White	Glass	-
7081304	01-0770813-04	28 VDC			.08 amps			
7081308	01-0770813-08	28 VDC			0.16 amps			
7081312	01-0770813-12	28 VDC			0.24 amps			

71414 SERIES



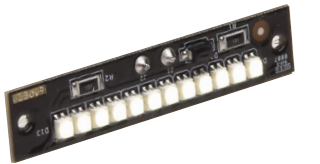
Model 71414 is an LED inspection light designed to replace GRIMES A5395-23 on the S76 Helicopter. The product comes standard with a Black anodize finish and a Clear polycarbonate lens. 71414 also comes with a bracket and has a hex head locking assembly to hold the light at the desired angle. 71414 produces more (>13) candela than the GRIMES light it replaces, unit comes with 12 flying leads.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
71414	01-0771414-00	With Viewing Angle up to 70 degrees, 24 VDC	0.08lbs (36.29gm)	2.17(55.12mm) x 1.19 (30.23mm) x 0.80 (20.32mm)	60 mA	Clear Polycarbonate	-

MODEL 70985

Model 70985 is an LED interior illumination assembly. It's .5" wide and its available with a 2.45" or a 1.95" length. Designed to be used in conjunction with customer designed interior aircraft parts. Item ships with 7" flying leads. Will function normally from 24-30 Volts.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7098501	01-0770985-01	Interior 12 LED light strip	0.18 lbs. (81.64gm)	2.45" (62mm) x 0.5" (13mm)	0.06 amps	-	-



NOTE: All non-FAA approved parts in this catalog are signified by a (—) in the approval column. Parts without FAA approval may still be purchased, however, installation of these parts on U. S. Type Certificated products will require additional FAA approvals.

INTERIOR LIGHTING

71140 SERIES

Model 71140 is an LED alternative for to Grimes 34170 (Dome Light) used on Bombardier Global Express, Challenger 600, 601, 604; Gulfstream GIII, GIV; Learjet 54, 56, 60 and Sikorsky S76. Primary operating voltage is 28V, an emergency circuit at 5V is provided for long-life lighting on an alternate power source. Spun aluminum assembly 5.5 inches outer diameter, 3.83 inch recessed inner diameter with a 1 inch recessed depth. Item ships with three flying leads, a ground, a 5V line and a 28V line.

MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
7114000	01-0771140-00	LED interior dome light	71140	0.35 Lbs (159m)	Exposed Height: 0.45 (mm)	125mA @ 28 VDC 250mA @ 5V	Translucent Polycarbonate	-



A300 SERIES

Interior map light assemblies designed for indirect cockpit illumination. Slide switch permits direct chart reading. Available with a Red or instrument White lens. Uses a 14 VDC, #1414 lamp or a 28 VDC, #1495 lamp.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
A300W14	01-0770104-30	Instrument White, 14 VDC	0.16 lbs. (73gm)	Depth Behind Mounting Flange: 1.06" (27mm)	6 Watts	Polycarbonate	-
A300R14	01-0770104-50	Red, 14 VDC					
A300R28	01-0770104-51	Red, 14 VDC					
A300W28	01-0770104-31	Instrument White, 28 VDC					



70339 SERIES

Interior dome/compartiment light assemblies designed for recessed overhead or wall mounting with minimal depth. An On/Off switch is optional. Uses a 14 VDC, #1414 lamp or a 28 VDC, #1495 lamp.

MODEL	PART#	DESCRIPTION	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	APPROVALS
7033901	01-0770339-01	14 VDC	0.16 lbs. (73gm)	Depth Behind Mounting Flange: 1.06" (27mm)	0.46 amps @ 14 VDC 0.3 amps @ 28 VDC	-	-
7033903	01-0770339-03	14 VDC with switch					
7033902	01-0770339-02	28 VDC					
7033904	01-070339-04	28 VDC with switch					



EXPERIMENTAL MICROBURST™ PLUS SERIES

LED wingtip and tail lighting for experimental and light sport aircraft



MicroBurst II with Taillight Kit
Kit Model No. MB2KWT - One MB2R (Red) and one MB2G (Green) plus one MB1WT taillight.
Part No. 01-0471519-010



MicroBurst I Kit
Kit Model No. MB1WT - Single taillight Assembly.
Part No. 01-0771490-00



MicroBurst II Kit
Kit Model No. MB2K - One MB2R (Red) and one MB2G (Green).
Part No. 01-0471519-00



MicroBurst III Kit
Kit Model No. MB3K - One MB3R (Red) and one MB3G (Green).
Part No. 01-0471507-00



MODEL	PART#	DESCRIPTION	APPROVALS
MB3K	01-0471507-00	Red & Green Pair Forward Position & White Tail Position Light / Anti-Collision Light Wingtip Assembly, 14 VDC LED-Strobe and rear facing white nav	-----
MB2K	01-0471519-00	Red & Green Pair Forward Position Light / Anti-Collision Light Wingtip Assembly, 14 VDC	-----
MB2KWT	01-0471519-01	Red & Green Pair Forward Position Light / Anti-Collision Light Wingtip Assembly, plus MB1 Tail Position / Anti-Collision Light Assembly, 14 VDC	-----
MB1WT	01-0771490-00	White Tail Position / Anti-Collision Light Assembly, 14 VDC	-----

NOTE: All non-FAA approved parts in this catalog are signified by a (—) in the approval column. Parts without FAA approval may still be purchased, however, installation of these parts on U. S. Type Certificated products will require additional FAA approvals.



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WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.

VERTEX™ SERIES

LED Anti-Collision Light Assembly



MODEL	PART#	DESCRIPTION	DIMENSIONS	CURRENT DRAW	LENS	APPROVALS
VTX609R	01-066B715-50	Red Anti-collision	1" (25mm) H x 1-5/8" (41mm) Dia.	0.3 amps	Polycarbonate	-
VTX609C	01-066B715-30	Clear Anti-collision				
VTXFC	Chrome, surface mount flange kit					
VTXFB	Black, surface mount flange kit					

BLAZE SERIES LIGHTING

Whelen Aerospace Technologies is proud to introduce the BLAZE, an all LED wingtip position, anti-collision and tail light assembly for the LSA and experimental market. Low drag and light weight without compromising safety and visibility.

* NOT APPROVED FOR CERTIFIED AIRCRAFT. NOT RECOMMENDED FOR NIGHT FLIGHT.

Weight: 0.19 lbs. (132gm)
Dimensions: L x 4.54" (115.5mm) x W 1.33" (34mm) x H 1.23" (32mm)
Current Draw: 14VDC: Position Light 0.40 Amps / Anti-Collision Light 2.15 Amps Peak

Replacement Lens: P/N: PC099056



MODEL	PART#	DESCRIPTION	APPROVALS
BLAZE1RG	01-95001-03	Red & Green Pair Forward Position & White Tail Position Light / Anti-Collision Light Wingtip Assembly, 14 VDC	-----



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WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.

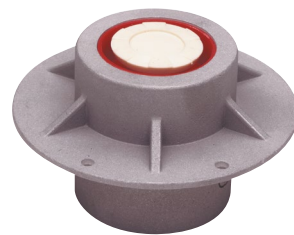
MISCELLANEOUS



MODEL 7054400

Ground crew call warning horn designed for Boeing. It produces 105db (+13db, -3db) at a frequency of 25-20,000 Hz.

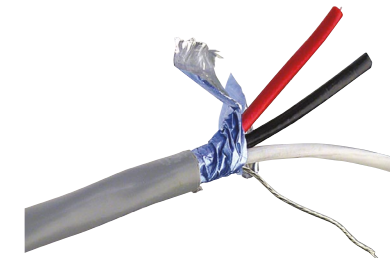
MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
7054400	01-0770544-00	Ground crew call warning horn, designed for Boeing # 10-62239-1	70544	0.65 lbs. (295gm)	2.28" (58mm) x 3.56" (90mm) Dia.	55ma @ 28 VDC (typical)	FAA/PMA
7054401	01-0770544-01	Ground crew call warning horn, designed for Embrear					



MODEL 7066600

Auxiliary power unit, fire warning horn designed for Boeing. It produces 106db (+10db, -3db) at a frequency of 25-20,000 Hz.

MODEL	PART#	BOEING#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	CURRENT DRAW	APPROVALS
7066600	01-0770666-00	10-62239-2	APU horn assembly, Boeing	70666	1.25 lbs. (567gm)	3" (58mm) x 5.1h (130mm) Dia.	55ma @ 28 VDC (typical)	FAA/PMA



INSTALLATION CABLE KITS

All cable kits include all required connectors for hooking up the strobe light to the power supply only, warning placards and the Installation Service Manual. All cable is 16 gauge 3/c shielded. The cable diameter is .275 (7mm). The weight is .050 lbs. per linear foot (Kits do not include switches or breakers).

MODEL	PART#	DESCRIPTION	APPROVALS
HS5	01-0750215-00	5' Cable kit	-
HT10	01-0750218-00	10' Cable kit	
HS30	01-0750214-00	30' Cable kit	
HD60	01-0750206-00	60' Cable kit NSN	
HDT390	01-0750205-00	90' Cable kit	
HT	01-0750216-00	Install kit only. No cable or connectors	

REPLACEMENT CONNECTORS

Replacement connector kits and assemblies for cables.

MODEL	PART#	DESCRIPTION	APPROVALS
A441	01-0430011-00	3 Position male connector with pins kit	-
A442	01-0410823-00	3 Position female connector with sockets kit	
A444	02-0230007-00	2 Position male connector with pins assembly	
A446	02-0230085-00	2 Position female connector with sockets assembly	
A447	01-0417808-00	4 Position male connector with pins	
A448	01-0417808-01	4 Position female connector with sockets	



SYSTEM RECOMMENDATIONS

CIRRUS AIRCRAFT

LED Upgrades for Legacy Cirrus Aircraft



Legacy Wingtip Configurations

OR600 Installed

QUANTITY	MODEL	PART #	DESCRIPTION
1	OR6002G	01-0771733-11	Orion 600 Series all LED (Right side)
1	OR6002R	01-0771733-12	Orion 600 Series all LED (Left side)



SELECT ONE OPTION BELOW	MODEL	PART #	DESCRIPTION
1	7126200	01-0771262-00	Cirrus Service Bulletin
1	LSM-500-082-27	LSM-500-082-27	LED to HID, Rectangular Light - Fits SR20 S/N 2127 and Subsequent SR22 S/N 3828 and Subsequent SR22T With Factory installed LED Lights
1	LSM-500-082-19	LSM-500-082	Rectangular Light - Fits SR20 S/N 1423-2043, SR22 S/N 0821-3495
1	LSM-500-082-17	LSM-500-082-17	Round Cowling Light - Fits SR20 S/N: 1148-1422 and SR22 S/N: 0119-0820
1	LSM-500-082-21	LSM-500-082-21	Rectangular Light - Fits SR20 S/N 2044 - 2126, SR22 S/N 3389 - 3827, SR22T with HID lights

DIAMOND AIRCRAFT

LED Lighting Upgrades for Diamond Aircraft to include DA20, DA40, DA42 Platforms



Legacy Strobe/Position light configuration



OR600 all LED Installed



Original Filament configuration



All LED Diamond Optional Service Bulletin Installed

QUANTITY	MODEL	PART #	DESCRIPTION
1	OR6002G	01-0771733-11	OR600 Series Wingtip Lights
1	OR6002R	01-0771733-12	OR600 Series Wingtip Lights
LED Options Select ONE Option			
4	7168500	01-0771685-00	Recognition/Landing Light
or	or		
4	7112520	01-0771125-20	Diamond Service Bulletin Kit OSB 40-077/OSB 40NG-026
HID Options Select ONE Option			
1	LSM-500-077	LSM-500-077	HID Landing Light (DA20-1, DA20-C1)
1	LSM-500-067	LSM-500-067	HID Landing Light (DA40)

SYSTEM RECOMMENDATIONS

BEECHCRAFT

Beechcraft Early model Single Engine through 1966



Legacy Wingtip Configurations (position light only or position/strobe combo)

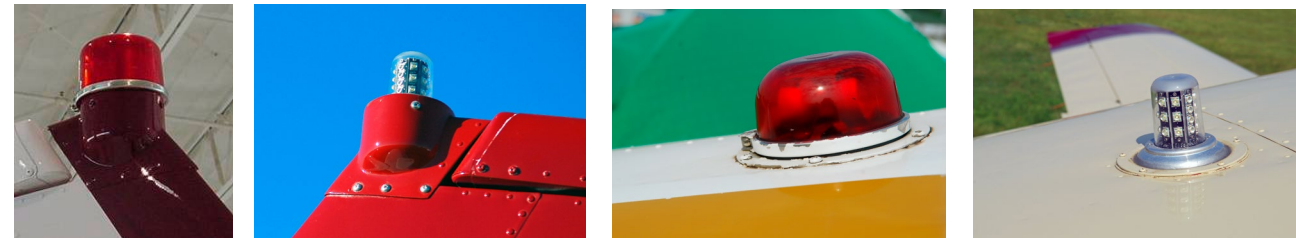
OR650 Installed

Legacy Tail configuration

QUANTITY	MODEL	PART #	DESCRIPTION
1	OR6501G	01-0790725-01	LED Green Position / ACL Light 14 VDC
1	OR6501R	01-0790725-02	LED Red Position / ACL Light 14 VDC
1	OR5001V	01-0771774V01	LED White Tail Position / ACL Light 14 VDC

Early Model Beech Single Engine Beacon options

**Note* - Beacon configuration is aircraft dependent. Either on vertical fin, OR upper fuselage.*



Legacy Rotating Beacon

LED Beacon Installed

Legacy Rotating Beacon

LED Beacon Installed

It is permissible to have either all RED, OR Red/White in color. See table below for options.

QUANTITY SELECT ONE OPTIONS BELOW	MODEL	PART #	DESCRIPTION
1 each	OR36R1W	01-0772010-52	Red LED beacon Low Profile 3.75" base 14 VDC
1 each	OR36S1W	01-0772010-72	Red / White LED beacon Low Profile 3.75" base 14 VDC
1 each	7108055	01-0771080-55	Red LED beacon 3.75" base 14 VDC

Beechcraft Single Engine 1967 through 1973

Older F33 Bonanza style with small wingtip cutout will require modification to fit OR650E series due to restrictions in mounting area.



Factory Wingtip Configuration

OR650E Installed

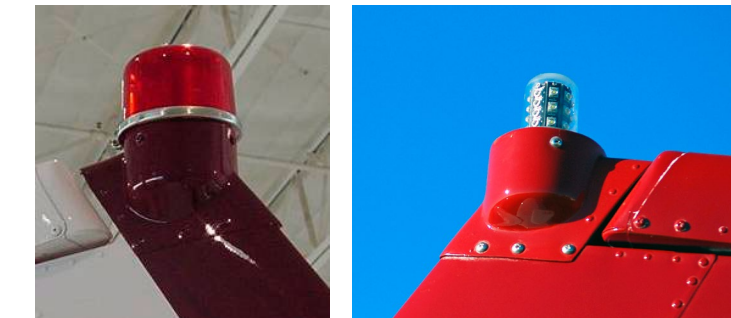
Legacy Tail

OR5001V Installed

QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6501GE	01-0790701-01	LED Green Position / ACL Light Embedded 14 VDC
1 each	OR6501RE	01-0790701-02	LED Red Position / ACL Light Embedded 14 VDC
1 each	OR5001V	01-0771774V01	LED White Tail Position / ACL Light 14 VDC

Beacon Replacement

It is permissible to have either all RED, OR Red/White in color. See table below for options.



QUANTITY SELECT ONE OPTIONS BELOW	MODEL	PART #	DESCRIPTION
1 each	OR36R1W	01-0772010-52	Red LED beacon Low Profile 3.75" base 14 VDC
1 each	OR36S1W	01-0772010-72	Red / White LED beacon Low Profile 3.75" base 14 VDC
1 each	7108055	01-0771080-55	Red LED beacon 3.75" base 14 VDC

SYSTEM RECOMMENDATIONS

BEECHCRAFT CONTINUED

Single Engine 1974 & later commonality wingtip with enlarged clear lens



Before, Original configuration

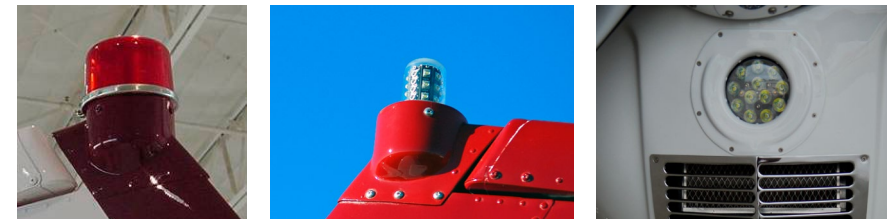
Orion 650E Installed

Orion 650E with 71125 Recognition Light

QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6501GE	01-0790701-01	LED Green Position / ACL Light Embedded 14 VDC
1 each	OR6501RE	01-0790701-02	LED Red Position / ACL Light Embedded 14 VDC
1 each	OR5001V	01-0771774V01	LED White Tail Position / ACL Light 14 VDC

Beacon / Landing Light Replacements

It is permissible to have either all RED, OR Red/White in color. See table below for options.



QUANTITY	MODEL	PART #	DESCRIPTION
1	OR36R1W	01-0772010-52	Red LED beacon Low Profile 3.75" base 14 VDC
1	OR36S1W	01-0772010-72	Red / White LED beacon Low Profile 3.75" base 14 VDC
1	7108055	01-0771080-55	Red LED beacon 3.75" base 14 VDC
Landing / Taxi Light Options			
1	P36P1L	01-0771833-10	Parmetheus Plus Landing Light 14 VDC 60,000 Candela
or			
1	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela
1	P36P1T	01-0771833-15	Parmetheus Plus Taxi Light 15,000 Candela 14 VDC

Beech Baron wingtip configuration with enlarged lens



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6502GE	01-0790701-11	LED Green Position / ACL Light Embedded 28 VDC
1 each	OR6502RE	01-0790701-12	LED Red Position / ACL Light Embedded 28 VDC
1 each	OR5002V	01-0771774V02	LED White Tail Position / ACL Light 28 VDC

Beacon and Landing Light Replacements

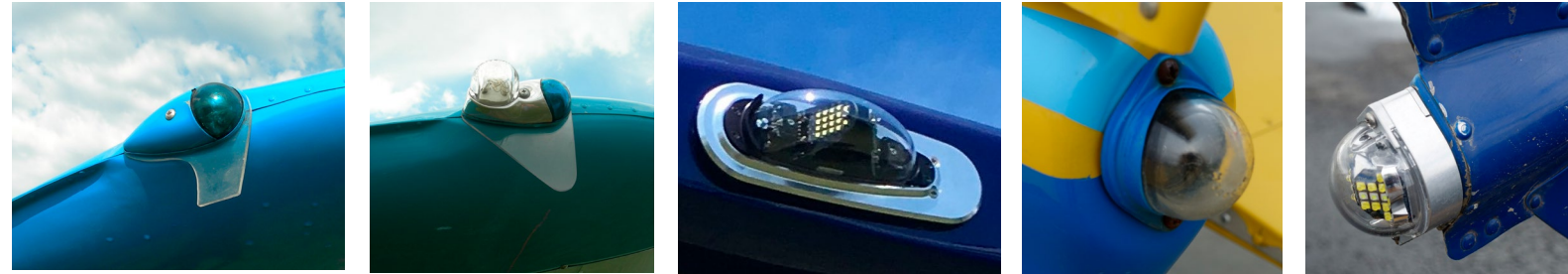
NOTE: B55 baron had round 3.75" beacons and 58 Barons had teardrop shaped Beacons



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	9072414	01-0790724-14	LED Anti-collision light (5-Hole rudder mount, Barons, 2.25 lbs.) cable pigtail, Red 28V
1 each	9072419	01-0790724-19	LED Anti-collision light (lower 8-Hole mount) cable pigtail, Red 28V
1 each	OR36R2W	01-0772010-12	Red LED beacon Low Profile 3.75" base 28 VDC
1 each	OR36S2W	01-0772010-32	Red / White LED beacon Low Profile 3.75" base 28 VDC
1 each	7108005	01-0771080-05	Red LED beacon 3.75" base 28 VDC
Landing / Taxi Light Options			
2 each	P36P2L	01-0771833-20	Parmetheus Plus Landing Light 28 VDC 60,000 Candela
or			
2 each	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela
1 each	P36P2T	01-0771833-25	Parmetheus Plus Taxi Light 28 VDC 15,000 Candela

SYSTEM RECOMMENDATIONS

CESSNA AIRCRAFT

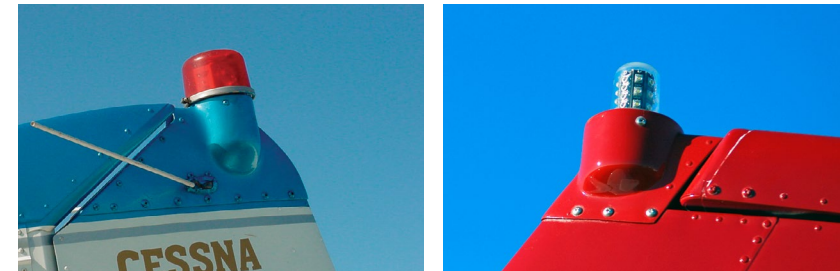


Cessna Early Model Single Engine through 1961

QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6501G	01-0790725-01	LED Green Position / ACL Light 14 VDC
1 each	OR6501R	01-0790725-02	LED Red Position / ACL Light 14 VDC
1 each	OR5001V	01-0771774V01	LED White Tail Position / ACL Light 14 VDC

Beacon / Landing Light Replacements

It is permissible to have either all RED, OR Red/White in color. See table below for options.



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR36R1W	01-0772010-52	Red LED beacon Low Profile 3.75" base 14 VDC
1 each	OR36S1W	01-0772010-72	Red / White LED beacon Low Profile 3.75" base 14 VDC
1 each	7108055	01-0771080-55	Red LED beacon 3.75" base 14 VDC

Cessna Early Model Single Engine through 1962 through 1969

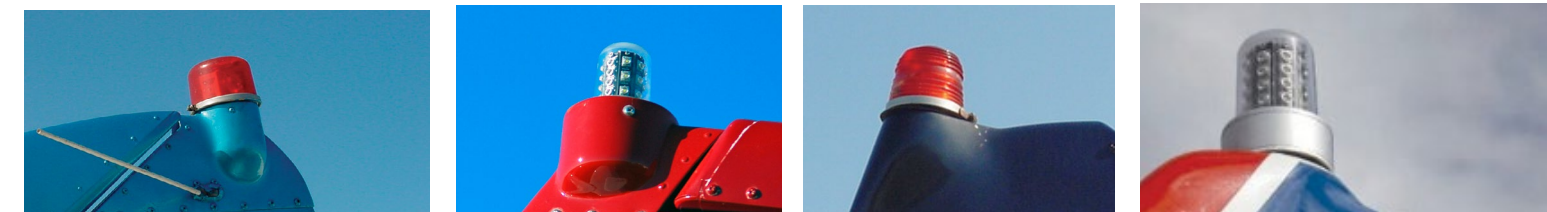
NOTE: Minor wingtip mod required to accommodate Larger footprint see below.



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6501G	01-0790725-01	LED Green Position / ACL Light 14 VDC
1 each	OR6501R	01-0790725-02	LED Red Position / ACL Light 14 VDC
1 each	OR5001V	01-0771774V01	LED White Tail Position / ACL Light 14 VDC

Beacon / Landing Light Replacements

It is permissible to have either all RED, OR Red/White in color. See table below for options.



QUANTITY	MODEL	PART #	DESCRIPTION
1	OR36R1W	01-0772010-52	Red LED beacon Low Profile 3.75" base 14 VDC
1	OR36S1W	01-0772010-72	Red / White LED beacon Low Profile 3.75" base 14 VDC
1	7108055	01-0771080-55	Red LED beacon 3.75" base 14 VDC
1	OR36R1N	01-0772010-50	Red LED beacon Low Profile 2.6" base 14 VDC
1	OR36S1N	01-0772010-70	Red / White LED beacon Low Profile 2.6" base 14 VDC

Landing / Taxi Light Options

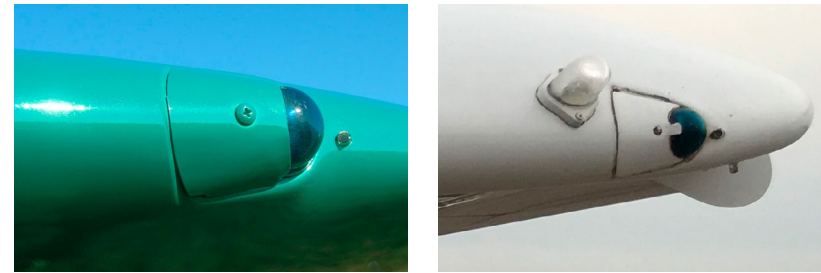
1	P36P1L	01-0771833-10	Parmetheus Plus Landing Light 14 VDC 60,000 Candela
or			
1	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela
	P36P1T	01-0771833-15	Parmetheus Plus Taxi Light 14 VDC 15,000 Candela

SYSTEM RECOMMENDATIONS

CESSNA CONTINUED

Cessna Early Model Single Engine through 1970 through 1971

Note No LED option available for the Anti-Collision portion due to real estate constraints



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	CHROMA1G	01-0771900G14	LED Green Position Light Bulb 14 VDC
1 each	CHROMA1R	01-0771900R14	LED Red Position Light Bulb 14 VDC

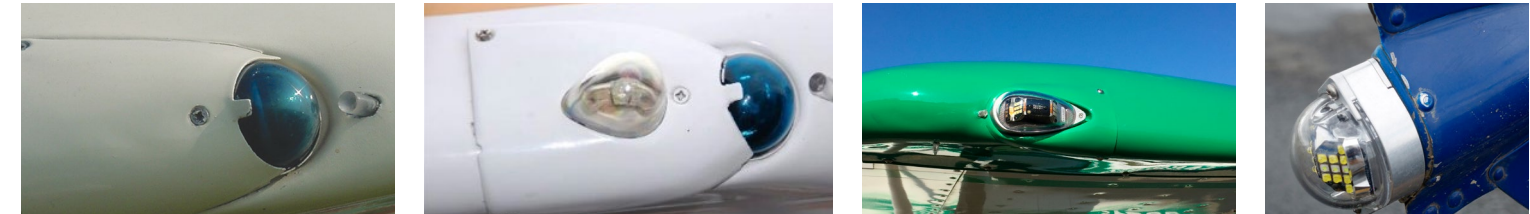
Beacon / Landing Light Replacements



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR36R1N	01-0772010-50	Red LED beacon Low Profile 2.6" base 14 VDC
1 each	OR36S1N	01-0772010-70	Red / White LED beacon Low Profile 2.6" base 14 VDC
1 each	7108051	01-0771080-51	Red LED beacon 2.6" base 14 VDC
1 each	P36P1L	01-0771833-10	Parmetheus Plus Landing Light 14 VDC 60,000 Candela
or			
1 each	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela
1 each	P36P1T	01-0771833-15	Parmetheus Plus Taxi Light 14 VDC
Below assemblies for 1978-1986 Aircraft			
1 each	OR36R2N	01-0772010-10	Red LED beacon Low Profile 2.6" base 28VDC
1 each	OR36S2N	01-0772010-30	Red / White LED beacon Low Profile 2.6" base 28 VDC
1 each	7108001	01-0771080-01	Red LED beacon 2.6" base 28 VDC
Landing / Taxi Light Options			
1 each	P36P2L	01-0771833-20	Parmetheus Plus Landing Light 28 VDC 60,000 Candela
or			
1 each	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela
1 each	P36P2T	01-0771833-25	Parmetheus Plus Taxi Light 28 VDC 15,000 Candela

Cessna Early Model Single Engine through 1972 through 1986

NOTE: Voltage changed from 14 VDC to 28 VDC in 1978. Wilco Wingtip Cover plates needed for installation of Wingtip assemblies.



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6501G	01-0790725-01	LED Green Position / ACL Light 14 VDC
1 each	OR6501R	01-0790725-02	LED Red Position / ACL Light 14 VDC
1 each	OR5001V	01-0771774V01	LED White Tail Position / ACL Light 14 VDC
Below assemblies for 1978-1986 Aircraft			
1 each	OR6502G	01-0790725-11	LED Green Position / ACL Light 28 VDC
1 each	OR6502R	01-0790725-12	LED Red Position / ACL Light 28 VDC
1 each	OR5001V	01-0771774V02	LED White Tail Position / ACL Light 28 VDC

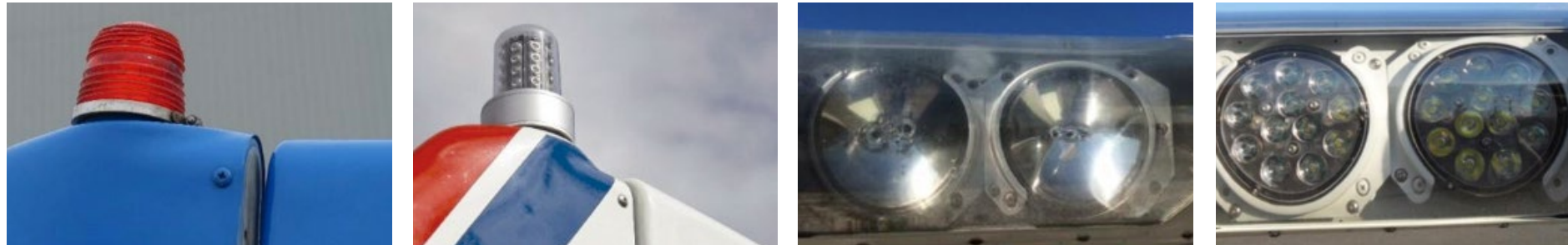


SYSTEM RECOMMENDATIONS

CESSNA CONTINUED

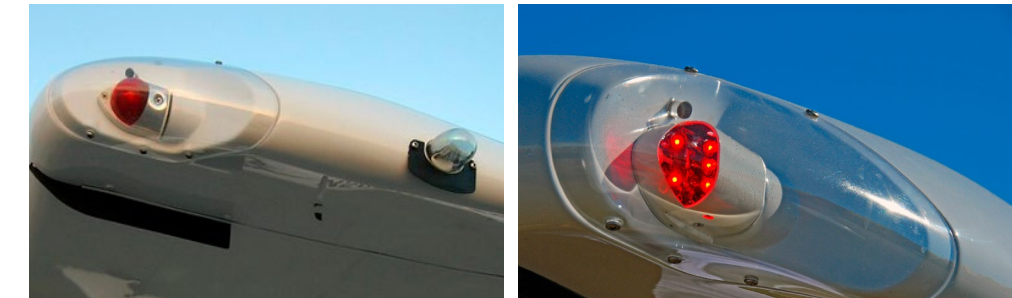
Beacon / Landing Light Replacements

It is permissible to have either all RED, OR Red/White in color. See table below for options.



QUANTITY SELECT ONE OPTION BELOW	MODEL	PART #	DESCRIPTION
1 each	OR36R1N	01-0772010-50	Red LED beacon Low Profile 2.6" base 14 VDC
1 each	OR36S1N	01-0772010-70	Red / White LED beacon Low Profile 2.6" base 14 VDC
1 each	7108051	01-0771080-51	Red LED beacon 2.6" base 14 VDC
1 each	P36P1L	01-0771833-10	Parmetheus Plus Landing Light 14 VDC 60,000 Candela
or			
1 each	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela
1 each	P36P1T	01-0771833-15	Parmetheus Plus Taxi Light 14 VDC
Below assemblies for 1978-1986 Aircraft			
1 each	OR36R2N	01-0772010-10	Red LED beacon Low Profile 2.6" base 28VDC
1 each	OR36S2N	01-0772010-30	Red / White LED beacon Low Profile 2.6" base 28 VDC
1 each	7108001	01-0771080-01	Red LED beacon 2.6" base 28 VDC
Landing / Taxi Light Options			
1 each	P36P2L	01-0771833-20	Parmetheus Plus Landing Light 28 VDC 60,000 Candela
or			
1 each	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela
1 each	P36P2T	01-0771833-25	Parmetheus Plus Taxi Light 28 VDC 15,000 Candela

Cessna Single Engine Restarts



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	7137901	01-0771379-01	LED Green Position Light assembly 14 VDC
1 each	7137902	01-0771379-02	LED Red Position Light assembly 14 VDC
1 each	7198700	01-0771987-00	LED Anti-Collision Light
1 each	7198517	01-0771985-17	LED Flasher Box (**NOTE: IF REPLACING EITHER 7081800 STROBE ASSEMBLY OR 7000617 POWER SUPPLY BOTH 7198517 & 7198700 ARE NEEDED TO CONVERT TO LED**)
1 each	7156000	01-0771560-00	

Cessna Caravan Aircraft

LED upgrade for Legacy Cessna Caravans

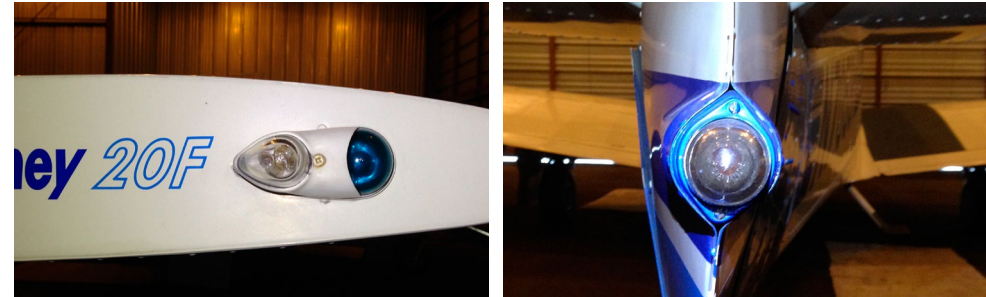


QUANTITY	MODEL	PART #	DESCRIPTION
1	9061391	01-0790613-91	LED Green Position / ACL Light 28 VDC
1	9061392	01-0790613-92	LED Red Position / ACL Light 28 VDC
1	7155402	01-0771554-02	LED White Tail Position Light 28 VDC
Landing / Taxi Light Options			
2	P46P2L	01-0790750-20	Parmetheus Plus Landing Light 28 VDC 105,000 Candela
2	P36P2T	01-0771833-25	Parmetheus Plus Taxi Light 28 VDC 15,000 Candela
1	LSM-500-040	LSM-500-040	HID Landing Light (208, 208A, 208B)

SYSTEM RECOMMENDATIONS

MOONEY AIRCRAFT

Early Model Flat Wing with Exterior Position Light Mounting



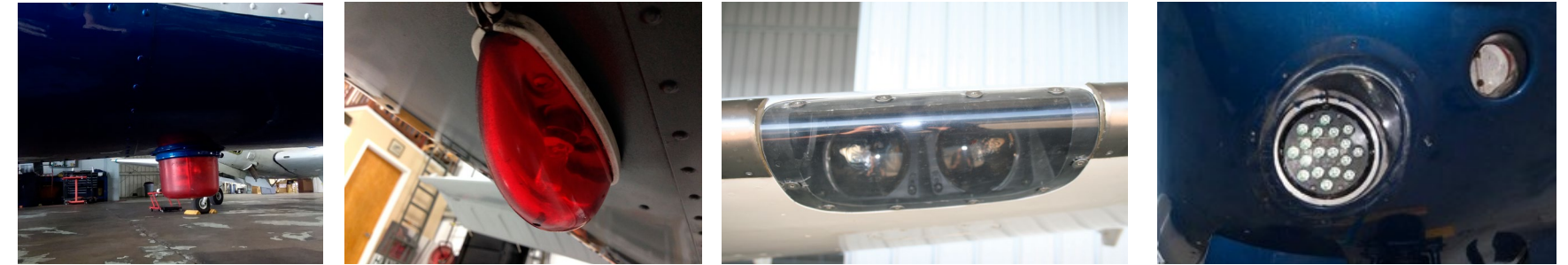
QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6501G	01-0790725-01	LED Green Position / ACL Light 14 VDC
1 each	OR6501R	01-0790725-02	LED Red Position / ACL Light 14 VDC
1 each	OR5001V	01-0771774V01	LED White Tail Position / ACL Light 14 VDC

Mooney Aircraft with Enclosed Wingtip Configuration



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6501GE	01-0790701-01	LED Green Position / ACL Light Embedded 14 VDC
1 each	OR6501RE	01-0790701-02	LED Red Position / ACL Light Embedded 14 VDC
1 each	OR5001V	01-0771774V01	LED White Tail Position / ACL Light 14 VDC
Below assemblies for 28 VDC Aircraft			
1 each	OR6502GE	01-0790701-11	LED Green Position / ACL Light Embedded 28 VDC
1 each	OR6502RE	01-0790701-12	LED Red Position / ACL Light Embedded 28 VDC
1 each	OR5002V	01-0771774V02	LED White Tail Position / ACL Light 28 VDC

Beacon / Landing Light Replacement

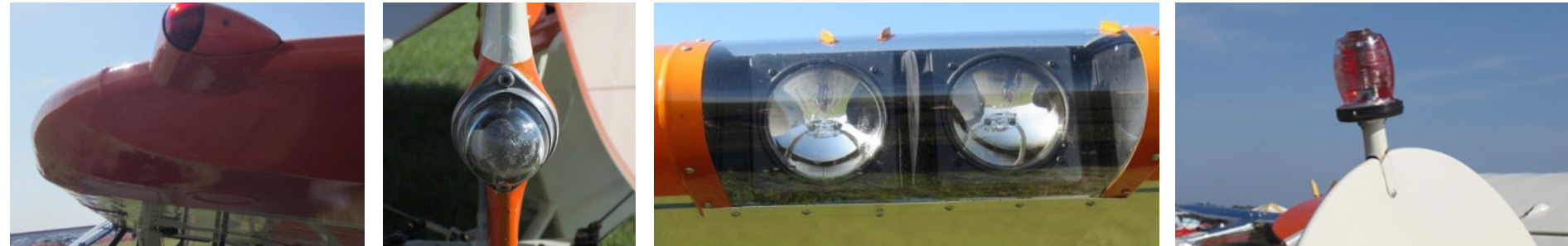


QUANTITY SELECT ONE OPTION BELOW	MODEL	PART #	DESCRIPTION
1 each	OR36R1W	01-0772010-52	Red LED beacon Low Profile 3.75" base 14 VDC
1 each	OR36S1W	01-0772010-72	Red / White LED beacon Low Profile 3.75" base 14 VDC
1 each	7108055	01-0771080-55	Red LED beacon 3.75" base 14 VDC
Landing / Taxi Light Options			
1 each	P36P1L	01-0771833-10	Parmetheus Plus Landing Light 14 VDC 60,000 Candela
or			
1 each	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela
1 each	P36P1T	01-0771833-15	Parmetheus Plus Taxi Light 14 VDC
Below assemblies for 28 VDC Aircraft			
	OR36R2W	01-0772010-12	Red LED beacon Low Profile 3.75" base 28VDC
	OR36S2W	01-0772010-32	Red / White LED beacon Low Profile 3.75" base 28 VDC
	7108005	01-0771080-05	Red LED beacon 3.75" base 28 VDC
Landing / Taxi Light Options			
	P36P2L	01-0771833-20	Parmetheus Plus Landing Light 28 VDC 60,000 Candela
or			
	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela
	P36P2T	01-0771833-25	Parmetheus Plus Taxi Light 28 VDC 15,000 Candela

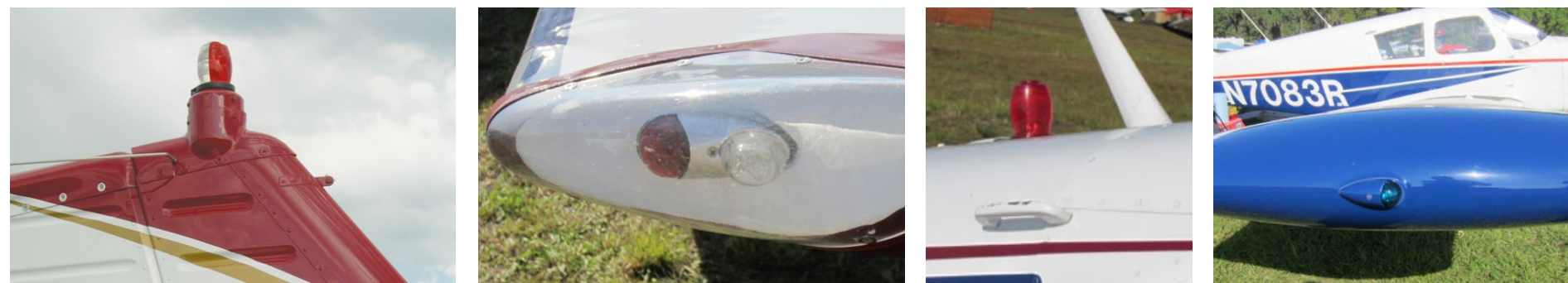
SYSTEM RECOMMENDATIONS

PIPER AIRCRAFT

Piper PA-18 Aircraft



QUANTITY	MODEL	PART #	DESCRIPTION
1	OR6501G	01-0790725-01	LED Green Position / ACL Light 14 VDC
1	OR6501R	01-0790725-02	LED Red Position / ACL Light 14 VDC
1	OR5001V	01-0771774V01	LED White Tail Position / ACL Light 14 VDC (NOTE TAIL MODIFICATION NEEDED FOR THIS ASSEMBLY TO FIT)
1	OR36R1N	01-0772010-50	Red LED beacon Low Profile 2.6" base 14 VDC
1	OR36S1N	01-0772010-70	Red / White LED beacon Low Profile 2.6" base 14 VDC
Landing / Taxi Light Options			
1	P36P1L	01-0771833-10	Parmetheus Plus Landing Light 14 VDC 60,000 Candela
1	P36PRO	LSM-SCD-042-1	Parmetheus PRO Landing Light 107,000 Candela



HOME BUILT & KIT AIRCRAFT

NIGHT FLIGHT CERTIFIED

For Aircraft with Standard Wingtips

The most widely used system on the market, this provides all of the components for anti-collision and position lights without the need for a taillight. The power supply is mounted in the fuselage and shielded cable is run to the strobe lights. The following is recommended:



QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6001G	01-0771733-01	Wingtip PTA Green, 12 VDC
1 each	OR6001R	01-0771733-02	Wingtip PTA Red, 12 VDC

For Aircraft with Enclosed Wingtip Fairings

If the position and strobe lights are mounted under a Clear fairing, a third tail strobe is required. The following is recommended:

QUANTITY	MODEL	PART #	DESCRIPTION
1 each	OR6501GE	01-0790701-01	LED Wingtip light, 14 VDC, Green
1 each	OR6501RE	01-0790701-02	LED Wingtip light, 14 VDC, Red
1 each	OR5001V	01-0771774V01	Tail PTA light White

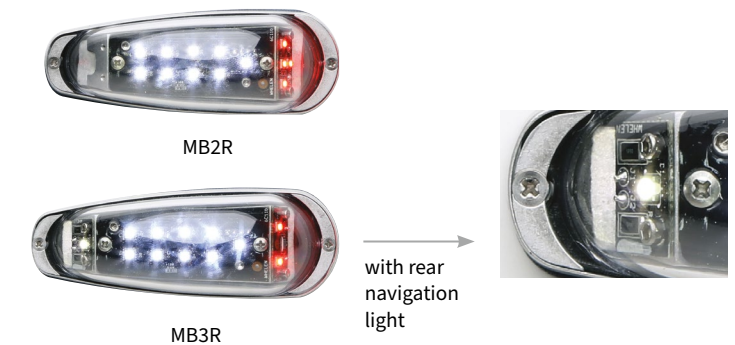
Note: 7111001, 7111002, HDACF & HD60 can be utilized for Legacy options

DAYTIME VFR

For Aircraft with Enclosed Wingtip Fairings and Wingtip Mounted Power Supplies

If position and strobe lights are mounted under a Clear fairing, the need for a third tail strobe is required. The following is recommended:

QUANTITY	MODEL	PART #	DESCRIPTION
2 each	MB1WT	01-0771490-00	Nav taillight
1 each	MB2G	01-0771519-01	Forward facing wingtip nav light, Green
1 each	MB2R	01-0771519-02	Forward facing wingtip nav light, Red



Experimental Aircraft with lights mounted on exterior of Wingtip

QUANTITY	MODEL	PART #	DESCRIPTION
1 each	MB3G	01-0771507-01	Forward facing wingtip nav light, Green, with rear facing White nav light
3 each	MB3R	01-0771507-02	Forward facing wingtip nav light, Red, with rear facing White nav light

NOTE: All non-FAA approved parts in this catalog are signified by a (—) in the approval column. Parts without FAA approval may still be purchased, however, installation of these parts on U. S. Type Certificated products will require additional FAA approvals.

HID Lighting

Products

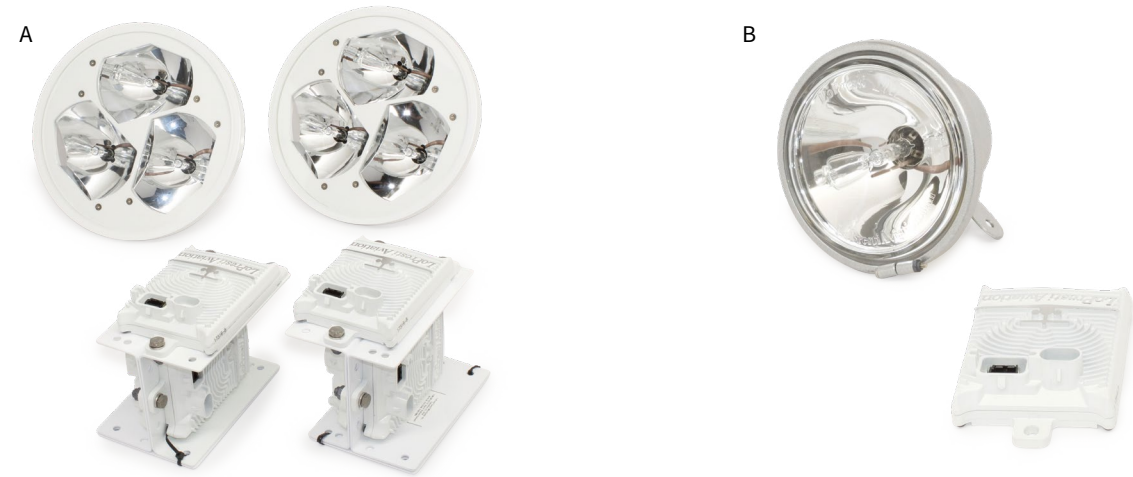


HID LANDING & TAXI LIGHTING PRODUCTS

HID Lighting Products

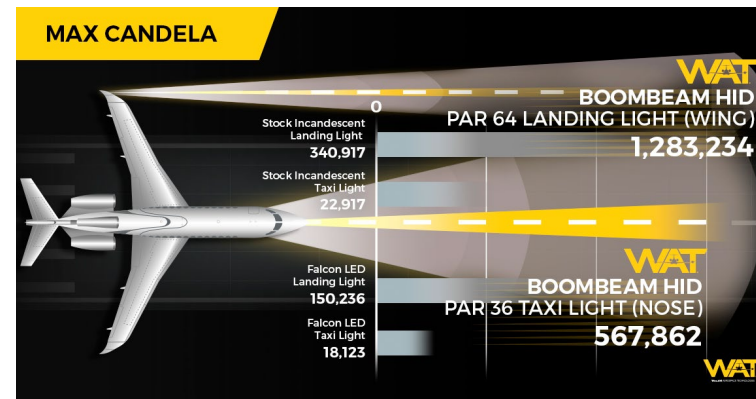
- Produces 3 - 15 times more light, engineered specially for each model aircraft.
- Increases safety, see and be seen
- Reduces electrical load and heat output
- Decreases AOG time for lighting issues, no filament to break
- 5 year/ 5,000hr warranty, proven system based on time-tested experience
- More closely approximates the color temperature of Natural Daylight
- FAA STC and PMA for hundreds of make/models of aircraft
- Thousands of installations worldwide
- Global Dealer Network

FALCON LIGHTING



	PART NUMBER	MODELS	DESCRIPTION	PRICE	APPROVALS
A	LSM-500-107	8X, 7X, 50, 900, 900EX (Also applies to 900B, 900C, 900DX, 900LX)	Wing landing lights triple HID light array for each wing	\$20,995	FAA/ STC, EASA APPROVED
B	LSM-500-112	2000, 2000EX (Also applies to 2000LDX, 2000EX EASY, 2000LXS)	Nose taxi light single 85w HID	\$8,995	FAA/ STC, EASA APPROVED

The Whelen Aerospace Technologies (WAT) Falcon landing and taxi light system is the brightest and best safety enhancement available for the Falcon. The wing lights feature patented WAT triple HID light array's in each wing giving you triple redundancy as well as 1.2 million candela power compared to the stock incandescent lights that have 227k candela power. Decreased power consumption the WAT upgrade will reduce heat (no more melting lenses). The nose HID taxi light is a model specific precision CNC'd housing with a single 85w HID. Both kits are finished in a mil spec powder coat finish. All components are included for installation as well as STC paperwork.



WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.



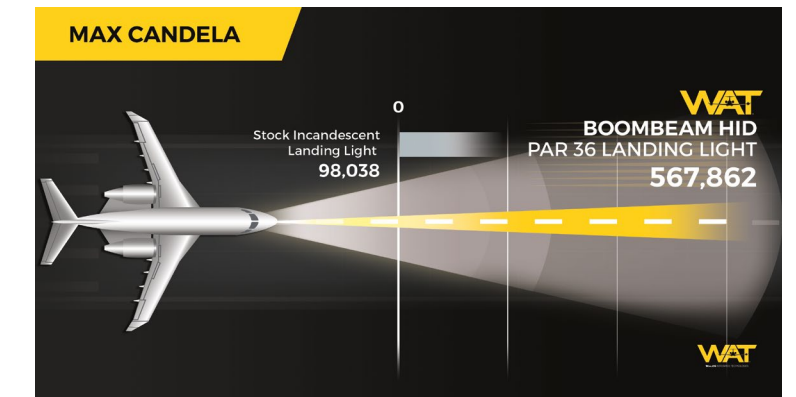


CHALLENGER 600 LIGHTING

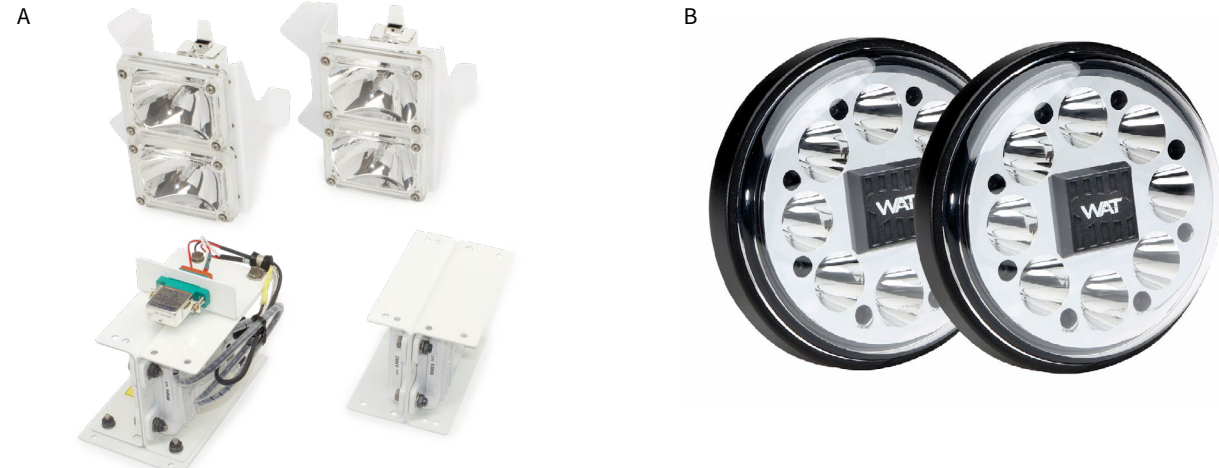


	PART NUMBER	MODELS	DESCRIPTION	PRICE	APPROVALS
A	LSM-500-108	CL-600-1A11 (CL-600) CL-600-2A12 (CL-601) CL-600-2B16 (CL-601-3A Variant) CL-600-2B16 (CL-601-3R Variant)	Wing landing & taxi lights. Comes with four new 85w HID light assemblies.	\$29,995	FAA/ STC, EASA APPROVED
B	LSM-500-109	CL-600-2B16 (CL-604 Variant) CL-600-2B19 (Regional Jet Series 100 & 440)	Nose taxi lights. Comes with two new 85w HID taxi light assemblies.	\$14,995	FAA/ STC, EASA APPROVED

The Whelen Aerospace Technologies (WAT) Challenger 600 series landing and taxi light upgrade outperforms both the stock incandescent system and aftermarket LED upgrades. WAT has received AMOC approval to (AD) 2014-15-17 for the CL-600 that limits the run time of the landing and taxi lights. The WAT upgrade will enable you to run your lights as long as you would like without the worry of heating issues. These complete kits come with new precision CNC'd light housings finished in mil spec powder coat, all new wiring, AC to DC power converters, and 85w ballasts. All components are included for installation as well as STC paperwork.



CHALLENGER 300/350 LIGHTING



	PART NUMBER	MODELS	DESCRIPTION	PRICE	APPROVALS
A	LSM-500-119	BD-100-1A10 (CHALLENGER 300, 350)	Wing landing lights. Dual HID light array for each wing. Offered with or without pulse	With Pulse Light Option \$19,995 Without Pulse Light Option \$16,995	FAA/ STC, EASA APPROVED
B	LSM-SCD-042-1		Drop in Replacement Parmetheus™ Pro LED nose gear taxi lights..	\$3,497	FAA/ STC, EASA APPROVED

The Whelen Aerospace Technologies (WAT) Challenger 300 series landing and taxi light upgrades outperform both the stock xenon system and the aftermarket LED upgrades. A single WAT HID puts out 567k candela power while the stock 45w xenon puts out 110k candela. This system takes your once stock single landing light system to a dual 85w HID light array for each wing giving dual redundancy. This kit is offered with or without pulse. All components are included for installation as well as STC paperwork.



www.flywat.com

WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.



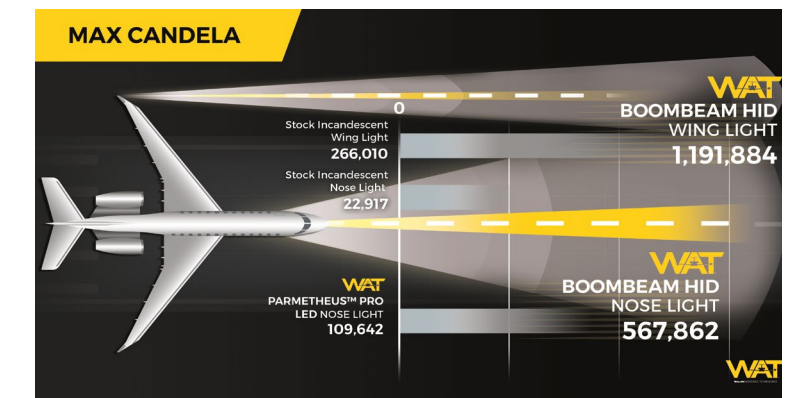


GLOBAL EXPRESS LIGHTING

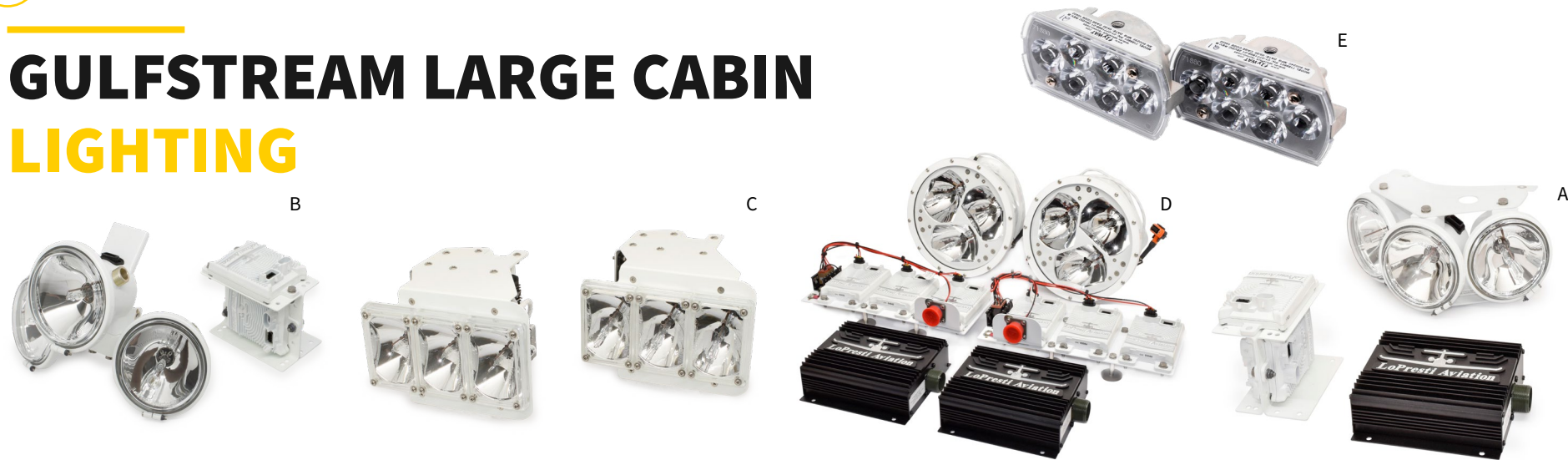


	PART NUMBER	MODELS	DESCRIPTION	PRICE	APPROVALS
A	LSM-500-111		Wing landing & taxi lights. Two 85w quad light array assemblies.	\$39,995	FAA/ STC, EASA APPROVED
B	LSM-500-137	BD-700-1A10 (Global Express, Global 6000) BD-700-1A11 (Global Express, Global 5000)	Nose gear taxi lights. Comes with two new 85w HID taxi light assemblies.	\$14,995	FAA/ STC, EASA APPROVED
C	LSM-SCD-042-1		Drop in Replacement Parmetheus™ Pro LED nose gear taxi lights. STC Approved.	\$3,497	FAA/ STC, EASA APPROVED

The Whelen Aerospace Technologies (WAT) Global lighting is one of the most impressive and cost effective safety enhancements available. The wing landing and taxi light upgrade takes the stock incandescent two light system to four independent HID's in each wing root. Each light in these quad HID light assemblies are independently powered giving operators the added benefit of quadruple redundancy in addition to being 5 times brighter. The nose gear taxi light housings are precision CNC'd specifically for the Global, and throw 85w of natural daylight downrange giving additional high output landing light for the global. The logo light resembles the brightness of the landing and taxi lights upgrades, but also has the benefit of long life. No more changing annoying logo lights in the tail of the aircraft. All components are included for installation as well as STC paperwork.

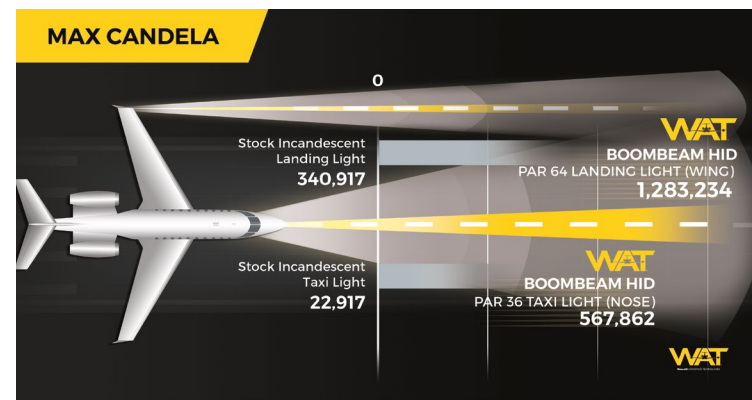


GULFSTREAM LARGE CABIN LIGHTING



	PART NUMBER	MODELS	DESCRIPTION	PRICE	APPROVALS
A	LSM-500-125-1	Gulfstream G-1159, G-1159 Gulfstream II, G-1159A Gulfstream III, G-1159B Gulfstream G-IIIB, G-IV (G300, G400)	Nose gear taxi light assembly (set of 3).	\$16,995	FAA/ STC, EASA APPROVED
B	LSM-500-125-3	GV, GV-SP (G500, G550), GIV-X (G350, G450)	Nose gear taxi light assembly (set of 3).	\$16,995	FAA/ STC, EASA APPROVED
C	LSM-500-126-1	Gulfstream G-1159, G-1159 Gulfstream II, G-1159A Gulfstream III, G-1159B Gulfstream G-IIIB, G-IV (G300, G400), GIV-X (G350, G450)	Wing landing light set of triple HID light arrays.	\$29,995	FAA/ STC, EASA APPROVED
D	LSM-500-126-3	GV, GV-SP (G500, G550)	Wing landing light set of triple HID light arrays.	\$29,995	FAA/ STC, EASA APPROVED
E	WAT-025-101		LED Wingtip Flood Lights.	\$3,995	FAA/ STC, EASA APPROVED

The Whelen Aerospace Technologies (WAT) Large Cabin Gulfstream upgrade is in a league of its own in terms of performance in light output. The wing landing light takes your once single par 64 stock light to a triple 85w HID light array in each wing. Each light in the triple light arrays are independently powered by 85w ballasts giving the system triple redundancy as well as 1.3m candela power vs the stock 227k output candle power. The nose taxi lights were engineered specifically for the large cabin, and are machined and more rugged. These Gulfstream lighting kits are finished with mil spec powder coat and come with new wiring harnesses. All components are included for installation as well as STC paperwork.



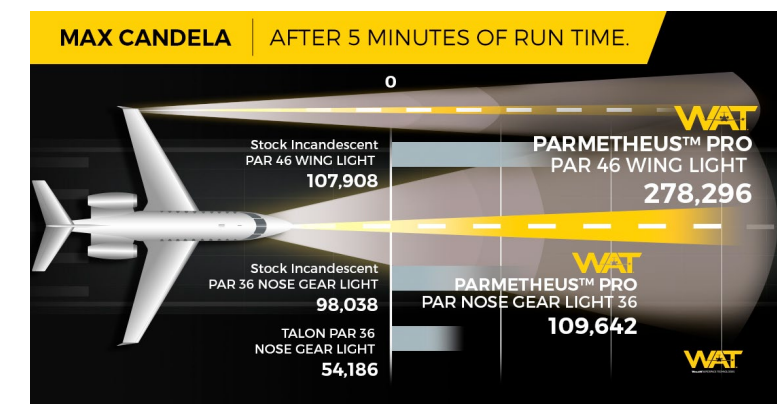


GULFSTREAM MID CABIN LIGHTING



	PART NUMBER	MODELS	DESCRIPTION	PRICE	APPROVALS
A	LSM-500-103	Gulfstream 100, Gulfstream 200, Gulfstream G150, Gulfstream G280, Astra SPX, Galaxy	Wing landing lights pair of dual HID light arrays.	\$14,995	FAA/ STC, EASA APPROVED
B	LSM-500-104		Nose gear taxi light kit. Pair of 85W HID taxi lights.	\$8,995	FAA/ STC, EASA APPROVED
C	LSM-SCD-039-1 (2)		Pair of Parmetheus™ Pro par 46 drop in wing LED Landing Lights	\$3,697	FAA/ STC, EASA APPROVED
C	LSM-SCD-042-1 (2)		Pair of Parmetheus™ Pro par 36 drop in nose gear LED taxi Lights	\$3,497	FAA/ STC, EASA APPROVED
C	LSM-SCD-039-1 (2) LSM-SCD-042-1 (2)		Pair of Parmetheus™ Pro par 36 and par 46 wing and nose drop in LED Lights	\$4,695	FAA/ STC, EASA APPROVED

The Whelen Aerospace Technologies (WAT) Mid Cabin Gulfstream upgrade is a popular factory option in addition to aftermarket upgrade. The WAT systems take your single incandescent landing lights and replaces them with dual 85w HID light arrays for each wing. The taxi light system comes with all new housings and is specifically engineered for the mid cabin Gulfstream. All components are included for installation as well as STC paperwork.



CITATION LIGHTING



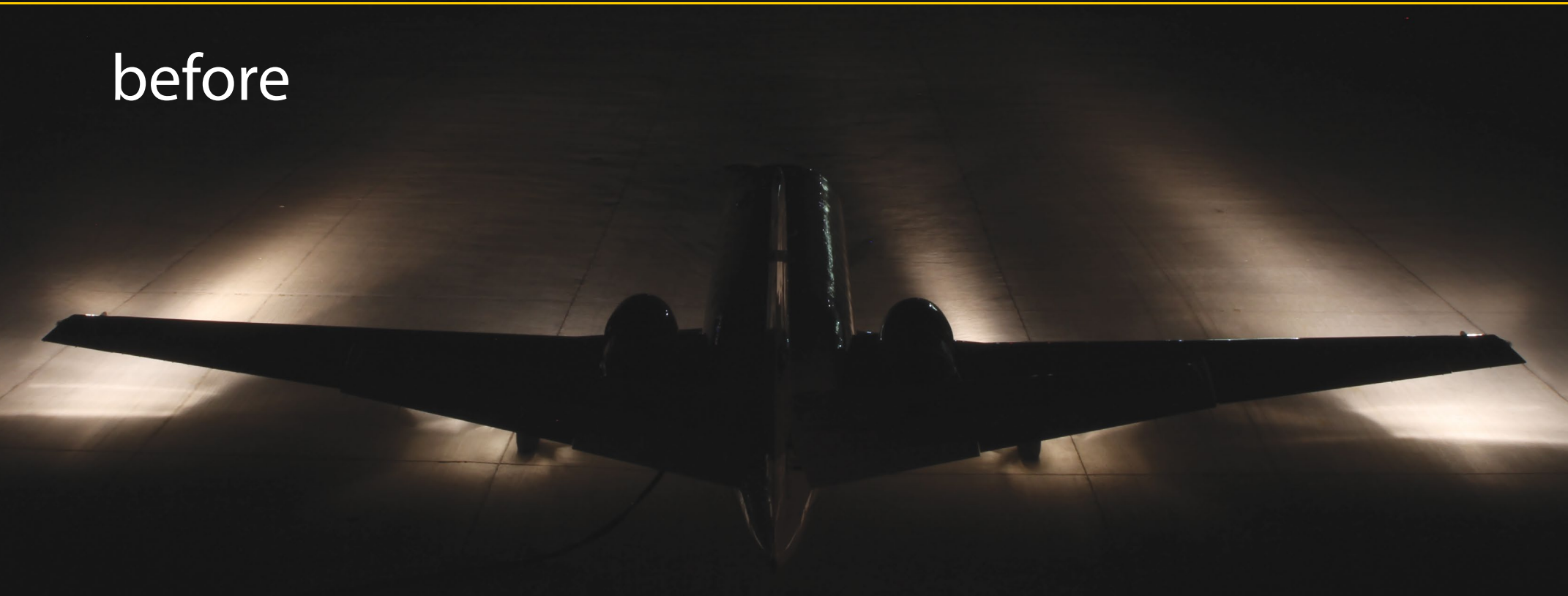
	PART NUMBER	MODELS	DESCRIPTION	PRICE	APPROVALS
A	LSM-500-066	500, 501, 550, 551 & S550	Main gear landing light kit. Pair of par 46 light house assemblies.	\$8,995	FAA/ STC, EASA APPROVED
B	LSM-500-078	550 (550-0801 through 550-1136), 560 (560-0539 through 560-0750), 560+ (560-0751 & on), 650	Main gear landing light kit. Pair of par 46 or 36 light house assemblies.	\$8,995	FAA/ STC, EASA APPROVED
C	LSM-500-076	S550, 550, 550 Bravo, 560, 560XL Excel (S/N 560-5001 through 560-5372), XLS (S/N 560-5501 through 560-6000), XLS+ (S/N 560-6001 and Subs)	Wing landing and taxi light kit. Pair of HID wing landing and taxi lights.	\$10,995	FAA/ STC, EASA APPROVED
D	LSM-500-099-7	525, 525A, 525B (S/N 525-0001 through 525-0679, 525A-0001 through 525A-0416, 525B-0001 through 525B-0262, 525B-0264 through 525B-0293)	Wing fairing landing light kit. Pair of HID dual light assemblies.	\$8,995	FAA/ STC, EASA APPROVED
E	LSM-SCD-042-1 (2)	550 BRAVO SN: 550-0801 AND UP. 560 ENCORE SN: 560-0539 THRU 560-0750. 560 ENCORE + SN: 560-0751 THRU 560-5000.	Pair of par 36 Parmetheus™Pro LED main gear landing lights	\$3,497	FAA/ STC, EASA APPROVED
F	LSM-SCD-039-1 (2)	500, 550, S550, 560 (CITATION V) SN: 560-0001 THRU 560-0259, 560 (ULTRA) 560-0260 THRU 560-0538. MODELS 525, 525A, 525B (S/N 525-0001 THRU 525-0679, 525-0681 THRU 525-0684, 525A-0001 THRU 525A-0416, 525A-0418 THRU 525A-0438 525B-0001 THRU 525B-0262, 525B-0264 THRU 525B-0293)	Pair of par 46 Parmetheus™Pro LED main gear landing lights	\$3,697	FAA/ STC, EASA APPROVED



after



before



CITATION LIGHTING



	PART NUMBER	MODELS	DESCRIPTION	PRICE	APPROVALS
A	LSM-500-099-9	560XL Landing Lights Excel (S/N 560-5001 through 560-5372), XLS (S/N 560-5501 through 560-6000), XLS+ (S/N 560-6001 and Subs)	Wing fairing landing light kit. Pair of HID triple light assemblies.	\$11,995	FAA/ STC, EASA APPROVED
B	LSM-500-117	510, 525, 525A, 525B	Pair of dual HID light array belly pod assemblies.	\$14,995	FAA/ STC, EASA APPROVED
C	LSM-500-117-5	510	Quick install kit re-lamp and re-ballast stock belly pod.	\$8,995	FAA/ STC, EASA APPROVED
D	LSM-500-100	680, 680A & 750	Nose gear taxi light kit. Pair of new 85w HID taxi lights.	\$9,995	FAA/ STC, EASA APPROVED

CITATION LIGHTING



STC Approved

KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-SCD-042-1	550 BRAVO SN: 550-0801 AND UP. 560 ENCORE SN: 560-0539 THRU 560-0750. 560 ENCORE + SN: 560-0751 THRU 560-5000.	Drop in wing LED Landing Lights	\$3,497.00



STC Approved

KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-SCD-039-1	500, 550, S550, 560 (CITATION V) SN: 560-0001 THRU 560-0259, 560 (ULTRA) 560-0260 THRU 560-0538. MODELS 525, 525A, 525B (S/N 525-0001 THRU 525-0679, 525-0681 THRU 525-0684, 525A-0001 THRU 525A-0416, 525A-0418 THRU 525A-0438 525B-0001 THRU 525B-0262, 525B-0264 THRU 525B-0293)	Drop in wing LED Landing Lights	\$3,697.00

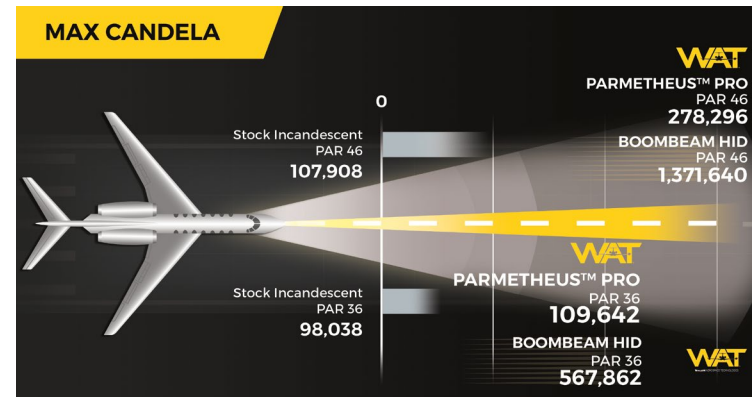


KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-101-9	680, 680A	Wing root landing lights. Pair of HID dual light array wing lights.	\$15,495



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-101-11	750	Wing root landing lights. Pair of HID dual light array wing lights.	\$15,495

Whelen Aerospace Technologies (WAT) has a variety of Citation kits available. All of the Citation kits feature the WAT 85w power supplies and mil spec powder coat finish. All main and nose gear kits have model specific bracketry. Depending on the model, WAT has dual, and triple light arrays offering pilots and operator's dual or triple redundancy. All WAT systems offer an average of five times more light output and longer life. All components are included for installation as well as STC paperwork.



WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.



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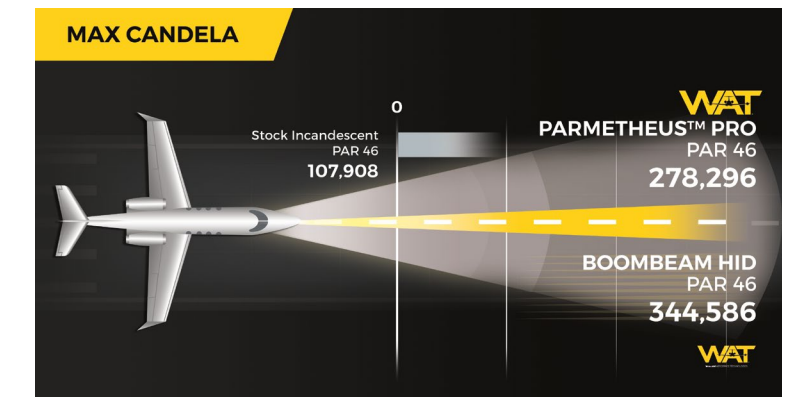


LEARJET LIGHTING



	PART NUMBER	MODELS	DESCRIPTION	PRICE	APPROVALS
A	LSM-500-072	24, 24A, 24B, 24B-A, 24C, 24D, 24D-A, 24E, 24F, 24FA, 25, 25A, 25B, 25C, 25D, 25F, 31, 31A, 35, 35A (C-21A), 36, 36A, 55, 55B, 55C, 60	Kit. Pair of HID Par 46 Main Gear Landing Lights.	\$8995	FAA/ STC, EASA APPROVED
B	LSM-500-120		Kit. Par 46 LED Tail Recognition Light.	\$3,995	FAA/ STC, EASA APPROVED
C	LSM-SCD-039-1 (2)		Pair Par 46 Parmetheus™ Pro LED Main Gear Landing Lights.	\$3697	FAA/ STC, EASA APPROVED
C	LSM-SCD-039-1 (1)		Single Par 46 Parmetheus™ Pro LED Tail Recognition Light.	\$3098	FAA/ STC, EASA APPROVED
C	LSM-SCD-039-1 (3)		Kit. 3 Parmetheus™ Pro LED Lights for both main gear and tail recognition.	\$4296	FAA/ STC, EASA APPROVED
D	LSM-500-072-9	45	Main gear landing light kit. Pair of rectangular main gear landing lights.	\$8995	FAA/ STC, EASA APPROVED
E	LSM-500-121		Belly landing and recognition lights. Set of 4 85w HID reflectors that fit in existing housing.	\$14,995	FAA/ STC, EASA APPROVED

Whelen Aerospace Technologies (WAT) LearJet HID lighting kits are a big safety enhancement for LearJets. All of the LearJet kits are composed of model specific bracketry to ensure a proper fit and aesthetically pleasing appearance. All of the kits are powered with WAT HID 85w ballasts and come with new wiring. Although the WAT upgrade is much more powerful it still runs cooler than the stock incandescent system. No more cracking lenses due to heat. All components are included for installation as well as STC paperwork.



HAWKER LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-047	700/ 750 / 800 / 800XP / 850XP / 900XP	Nose taxi light kit. Pair of par36 nose taxi lights.	\$10,995

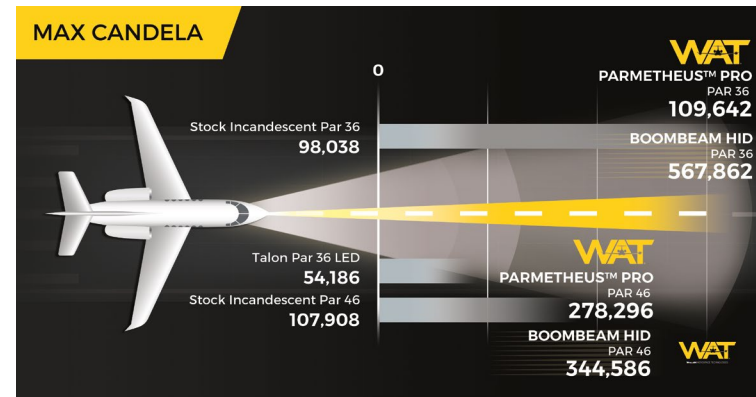


KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-042	750 / 800 / 800XP / 850XP / 900XP / 1000	Wing landing and taxi light kit. Pair of par 36 wing taxi lights. Pair of par46 wing landing lights.	\$14,995



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-136	4000	Quick install kit re-lamp and re-ballast stock belly pod.	\$15,995

Hawkers were the first corporate aircraft to ever receive a Whelen Aerospace Technologies (WAT) HID upgrade. For many years WAT HID's were factory installed on Hawkets. Hawker owners and operators love the WAT system because it not only 5 times brighter than stock, but it was still cool enough to stop the melting of the exterior lenses. These kits come complete with all new housings, all new wiring, model specific bracketry, and 85w ballasts. All components are included for installation as well as STC paperwork.



after

before



PHENOM LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-129-1	EMB-505 (Phenom 300)	Complete new pod set. Comes with (2) new dual light landing light pods, and (2) new single taxi light pods.	\$31,995



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-129-3	EMB-505 (Phenom 300)	New single taxi light pods only.	\$9,995



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-138-1	EMB-500 (Phenom 100)		\$9,995



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-129-5	EMB-505 (Phenom 300)	New dual light landing pods only.	\$24,995
LSM-500-129-7	EMB-505 (Phenom 300)	Pulselite controller	\$9,999
LSM-500-129-9		installation kit.	
LSM-500-129-11			



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-129-21	EMB-505 (Phenom 300)	Phenom 300 Quick-Install kit. New hi powered lamps and 85w ballasts.	\$15,995

The Whelen Aerospace Technologies (WAT) Embraer Phenom kits are both aesthetically appealing and a huge safety enhancement. WAT has two types of systems available for the Phenom 300. The full replacement housing kit replaces the existing stock light pods with newly designed CNC'd and patented lighting pods. WAT light pods are CNC'd pieces and the landing lights pods feature the multi light array patent. Another option for both the Phenom 100 & 300 is the quick install kits, which consist of re-lamping and re-ballasting the existing light pods on the aircraft with the WAT 85w system. All components are included for installation as well as STC paperwork.



BEECHJET LIGHTING



KIT NUMBER	FALCON MODELS	DESCRIPTION	PRICE
LSM-500-050	Beechjet Models 400 / 400A / 400T Hawker Model 400XP Mitsubishi Models MU-300 / MU-300-10	Nose mounted landing and taxi lights. Pair of par 46 housings with 85w ballasts.	\$8,995

PREMIER JET LIGHTING



KIT NUMBER	FALCON MODELS	DESCRIPTION	PRICE
LSM-500-110	390	Belly landing light kit. Pair of HID dual light array assemblies.	\$8,995



KIT NUMBER	FALCON MODELS	DESCRIPTION	PRICE
LSM-500-110-5	390	Belly landing light kit. Replaces existing pod and Fresnel lens with LoPresti dual HID pods.	\$14,995



BOEING LIGHTING



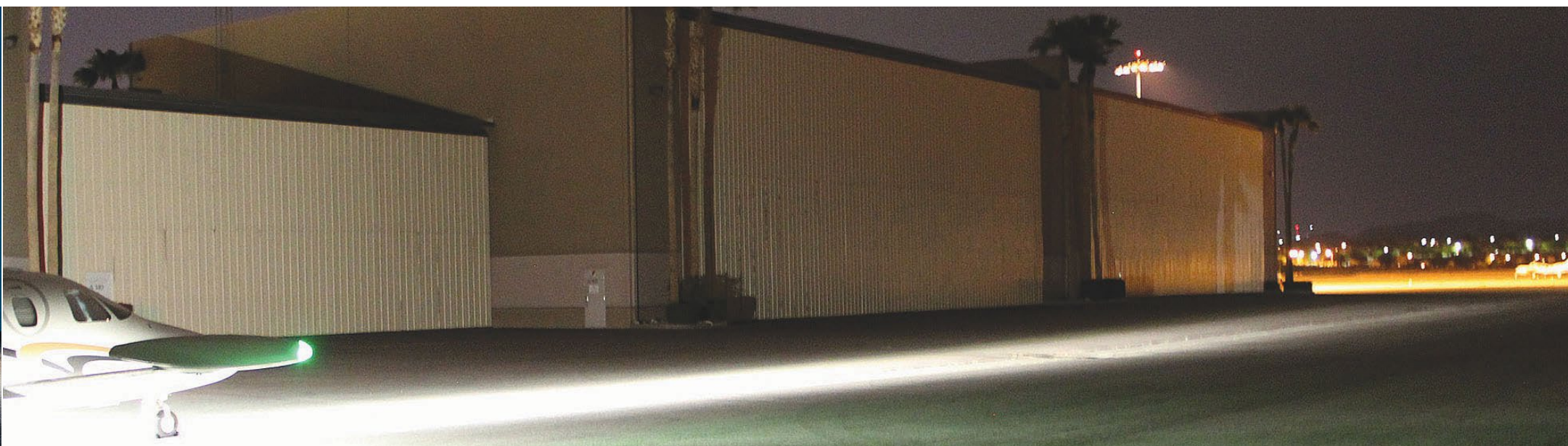
KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-139	737-600/-700/-800/-900	Wing mounted landing lights. Pair of 85w HID triple light arrays.	\$39,995



ECLIPSE JET LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-142	EA500	Quick install kit re-lamp and re-ballast stock belly pod with WAT 85w system.	\$11,995



KING AIR LIGHTING

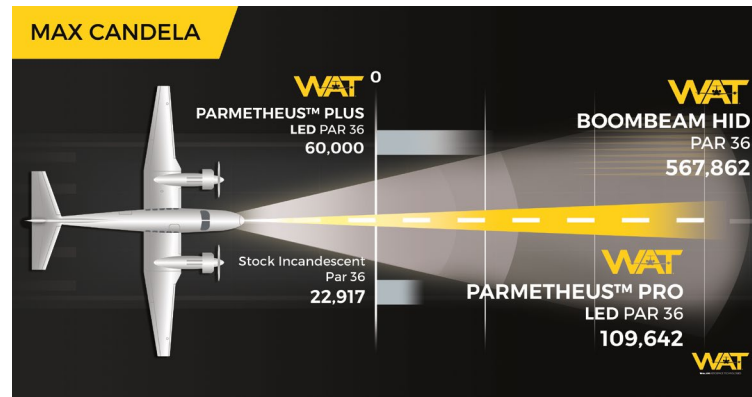


KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-027	(all King Air models)	Nose gear landing and taxi lights. Set of 3.	\$8,995



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-114	200, B300, B300C	Wing recognition lights. Set of 2.	\$4,995

A demanding workhorse like the King Air demands only the best lighting available. The Whelen Aerospace Technologies (WAT) King Air system features, precision CNC'd and sheet metal bracketry finished in a mil spec white powder coat. This WAT 85w system for both the landing, taxi, and recognition lights on the King Air make night landings a breeze whether you are on dirt, grass, or just a poorly lit field.



before

after

PIAGGIO LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-128	P-180	Landing and taxi light installation kit. Pair of Par46 HID landing lights. A single Parmetheus™ Pro Par36 LED taxi light.	\$9,995



PILATUS LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-075	PC-12, PC-12/45, PC-12/47, PC-12/47E	Main gear landing light kit. Comes with two new 85w Par36 landing lights.	\$5,495



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-097	PC-12, PC-12/45, PC-12/47, PC-12/47E	Wing recognition light kit. Comes with two 85w Par36 recognition lights.	\$5,495



PIPER PA-46 LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-012	PA-46-310P, PA-46-350P, PA-46-400TP, PA-46-500TP	Nose gear landing light kit. Comes with new rectangular landing light and brackets.	\$2,995



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-013	PA-46-310P, PA-46-350P, PA-46-400TP, PA-46-500TP	Wing light installation kit. Comes with two model specific wing light assemblies.	\$4,995



CARAVAN LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-040	208, 208A, 208B	Landing and taxi light installation kit. Pair of Par46 HID landing lights. Pair of Par36 taxi lights.	\$8,995



CASA LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-116	C-212-CB, C-212-CC, C-212-CD, C-212-CE, C-212-CF, C-212-DE, C-212-DF	Landing and taxi light installation kit. Set of 3 85w HID par36 landing/ taxi lights.	\$13,995



DEHAVILLAND LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-073	DHC 2, DHC-2 MKI, DHC-2 MKIII DHC-3 Otter DHC-6 Twin Otter	Wing mounted landing and taxi light kit. Set of 2 Par46 85w HID landing/taxi lights.	\$4,995



CIRRUS LIGHTING



NUMBER	MODELS	DESCRIPTION	PRICE
LSM LSM-500-082-27	SR20, SR22, SR22T G3-G6 with stock LED	Nose landing light. New 85w landing light with harnesses.	\$2,499



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-082	SR20, SR22, SR22T (ALL MODELS)	Nose landing light. New 85w landing light with harnesses.	\$2,299

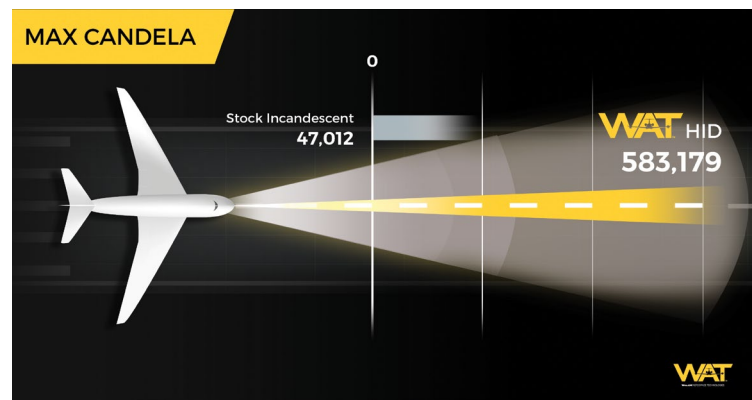


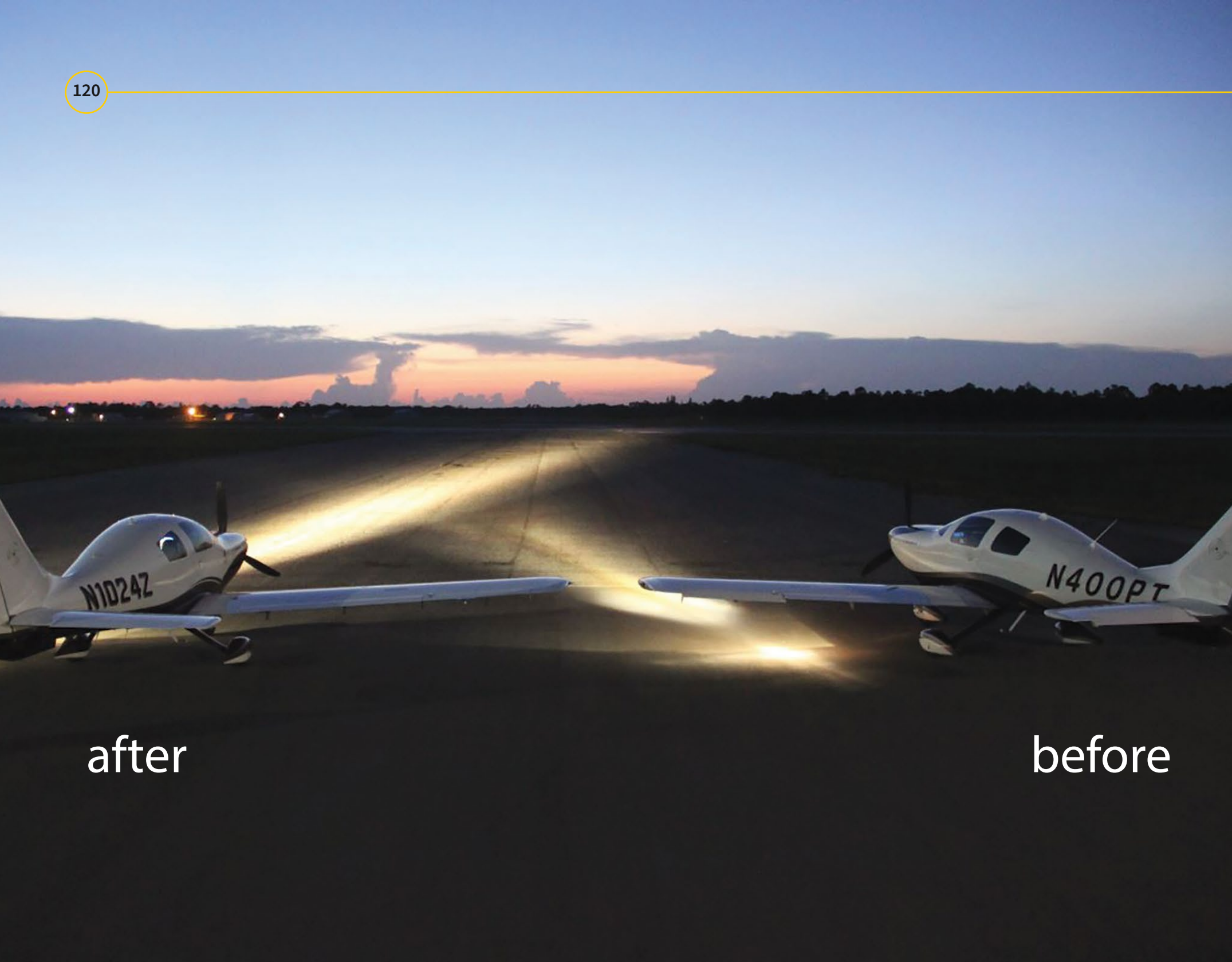
KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-800-028	SR20, SR22, SR22T (ALL MODELS) except for the G6 model	Tri -Tip modification of wingtip addition 85w HID to each wingtip.	\$8,995



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-153	Models SR20 (G3) Serial Numbers 1886 and Subsequent, SR22 Serial Numbers 2238 and Subsequent, SR22T	Tri-Tip light drop in HID to existing aircraft with LED wingtip recognition lights.	\$5,495

Whelen Aerospace Technologies (WAT) has a variety of products available for the Cirrus aircraft fleet. Available for all the SR models the WAT landing light is on over 1/2 of the fleet. Our landing light out performs all of our competitors by 5 times so this upgrade is the most obvious. For the wing lights we offer two different set ups. The tri-tip lite is a drop in replacement HID for aircraft equipped with LED wingtip recognition lights (G3-G5). For aircraft not equipped with the stock LED wingtip lights (G1-G2) or aircraft that want -more spill light on the wings (G3-G5) WAT offers the Tri-Tip modification. This modification requires sending your existing wingtips to our facility to be cut into adding a WAT 85W HID to each wingtip. You won't even know you're landing at night with this WAT HID setup on your Cirrus.





after

before

CESSNA LIGHTING



KIT NUMBER
LSM-500-064

MODELS
182 182A 182B 182C 182D 182E 182F 182G 182H 182J 182K 182L 182M 182N 182P 182Q 182R 182S 182T 206 206H P206 P206A P206C P206D P206E R182 R182 T182T T206H TP206A TP206B TP206C TP206D TP206E TR182 TU206A TU206B TU206C TU206D TU206E TU206F TU206G U206 U206A U206B U206C U206D U206E U206F U206G

DESCRIPTION
Wing mounted landing and taxi light kit. Pair of new 85w HID Par36 landing/taxi lights.

PRICE
\$4,495



KIT NUMBER
LSM-500-092

MODELS
Lancair Models LC40-550FG, LC41-550FG, LC42-550FG
Columbia Models 300, 350, 400
Cessna Model 400

DESCRIPTION
Wing landing and taxi light kit. New rectangular 85w landing light and taxi light for each wing.

PRICE
\$4,499

KIT NUMBER
LSM-500-102

MODELS
310, 310J, 310A (USAF U-3A), 310J-I, 310B, E3 IOJ, 3 IOC, 3 IOK, 310D, 310L, 310E, (USAF U-3B), 310N, 310F, 310P, 310G, T310P, 310H, 310Q, E310H, T310Q, 310I, 310R, T310R, 320, 320-1, 320A, 320B, 320C, 320D, 320E, 320F, 340A, 401, 401A, 401B, 402, 402A, 402B, 402C, 404, 411, 41 IA, 414, 414A, 421, 421A, 421B, 421C, 425320C, 320D, 320E, 320F, 340A, 401, 401A, 401B, 402, 402A, 402B, 402C, 404, 411, 41 IA, 414, 414A, 421, 421A, 421B, 421C, 425

DESCRIPTION
Replacement 85w HID Par46 landing lights for the retractable lights.

PRICE
\$3,995

Kits available for the following Cessna models. Contact us for details.

(USAF U-3B), 310N, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172M, 172N, 172P, 172Q, F172, FR172, R172E, 172L 172M, 172L, 172M, 172N, 172R, 172S, 177RG, 177RG, C150, C152, C172, C177, C180, C182, C185, C206, C210, 182 182A 182B 182C 182D 182E 182F 182G 182H 182J 182K 182L 182M 182N 182P 182Q 182R 182S 182T 206 206H P206 P206A P206C P206D P206E R182 R182 T182T T206H TP206A TP206B TP206C TP206D TP206E TR182 TU206A TU206B TU206C TU206D TU206E TU206F TU206G U206 U206A U206B U206C U206D U206E U206F U206G, 182P, 182Q, 182R, 185, 185, 206H, 210L, 210M, 210N, 210R, T206G, TU206F, TU206G, U206, U206F, U206G, 208, 208B, 210L, 210M, 210N, 210R, P206, P206A, P206B, P206C, P206E, T206G, T206H, TP206A, TP206B, TP206C, TP206D, TP206E, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, U206, U206A, U206B, U206C, , 206D, U206E, U206F, U206G, 3 IOC, 3 IOK, 310D, 310L, 310E, 310, 310J, 310A (USAF U-3A), 310J-I, 310B, E3 IOJ, 3 IOC, 3 IOK, 310D, 310L, 310E, (USAF U-3B), 310N, 310F, 310P, 310G, T310P, 310H, 310Q, E310H, T310Q, 310I, 310R T310R, 320, 320-1, 320A, 320B, 320C, 320D, 320E, 320F, 340A, 401, 401A, 401B, 402, 402A, 402B, 402C, 404, 411, 41 IA, 414, 414A, 421, 421A, 421B, 421C, 425, 310A, 310B, E3 IOJ, 310F, 310P, 310G, T310P, 310H, 310Q, E310H, T310Q, 310I, 310R T310R, 320, 320-1, 320A, 320B, 320C, 320D, 320E, 320F, 340A, 401, 401A, 401B, 402, 402A, 402B, 402C, 404, 411, 41 IA, 414, 414A, 421, 421A, 421B, 421C, 425, LC40-550FG (300), LC41-550FG (350), LC42-550FG (400), T240 (TTX), LC40-550FG (300), LC41-550FG (350), LC42-550FG (400), T240 (TTX), LC40-550FG (300), LC41-550FG (350), LC42-550FG (400), T240 (TTX), P210N, P210R, P210N, P210R, T210F, T210G, T210H, T210J, T210K, T210L, T210M, T210N, T210R



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WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit flywat.com/regulatory.

DIAMOND LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-077	DA20-A1, DA20-C1	Wing mounted landing/ taxi light. New rectangular light assemblies	\$3,795



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-067	DA40	Wing mounted landing/ taxi light. New rectangular light assemblies	\$4,995

PIPER LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-016	Cherokee, Lance, Saratoga	Cowl mounted 85w HID landing light.	\$1,699



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-034	Stock Piper Aircraft and Piper Aircraft with WAT Zip Tips	Wing mounted landing lights. Set of 2.	\$4,995

Kits available for the following Piper models. Contact us for details.
 PA-23,PA-23-160,PA-23-235, PA-23-250, PA-E23-250,PA-24-180,PA-24-250, PA-24-260,PA-24-400, PA-28-140,PA-28-150,PA-28-151,PA-28-160,PA-161, PA-28-180,PA-28-181,PA-28-201,PA-28-201T,PA-28-235,PA-28-236,PA-28R-, PA-28R-200,PA-28R-201,PA-28RT-201,PA-28RT-201T, PA-30, -39, PA-31, "PA-31-300, PA-31-325,"PA-31-350, PA-32-300,PA -32 -30 1 ,PA-32-301FT, PA-32-301T,PA-32-301XTC,PA-32R-300,PA-32R-301,PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-200,PA-34-200T,PA-34-220T, PA-42, PA-42-1000., PA-42-720R, PA-42-720R, PA-44-180,PA-44-180T, PA-46-310P,PA-46-350P,PA-46-S00TP, PA-46R-350T, "PA-32-260,PA- 32-300,PA-32S-, 300 , PA-32R-300, PA-32RT-300, PA-32RT-300T"



BEECHCRAFT LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-006	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, G36, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC 35, A35, B35, C35, D35, E35, F35, G35, 35R	Bonanza cowling mounted 85w landing light	\$2,599



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-006-11	36, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, A36, A36TC, B36TC, E33, E33A, E33C, F33, F33A, F33C, G33, G35, G36, H35, J35, K35, M35, N35, V35, V35A, V35B,	Bonanza Wing mounted landing/ taxi lights 14v 60w.	\$2,499

Kits available for the following Beechcraft models. Contact us for details.

390, "100, A100, A100A, A100C, B100, C99", 200, 300, 200C, 200CT, 200T, 300LW, A100= 1, A200C, A200CT, 8200, B200C, B200CGT, B200CT, B200GT, B200T, B300, B300C, C-12D, C-12F, C-12R, FWC-12D, RC-12D, RC-12G, RC-12H, RC-12K, RC-12P, RC-12O, U-21J, UC-12B, UC-12F, UC-12M, 36, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, A36, A36TC, B36TC, E33, E33A, E33C, F33, F33A, F33C, G33, G36, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, "58, SSE, SBA, 895A, D55, D95A, E95, 95-5 5, 95-A55, 95-BSS, 95-B55A, 95-B55B (T-42), 9S-CSS, 95-C55A, G58, DSSA, E55, ESSA, 56TC, A56TC, 58, 58A, 95, B95a", 58P, 58PA, SBTC, SBTCA, "A90, B90, C90, C90A, C9DGT, C90GTi, E90, H90, JU-21A, RU-21A, RU-21B, RU-21C, RU-21D, RU-21E, RU-21H, U-21A, U-21G"





ROTORCRAFT LIGHTING



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-052	AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS350C, AS350D, AS350D1, EC130B4, EC130T2	Airbus nose mounted landing/ taxi lights.	\$4,995



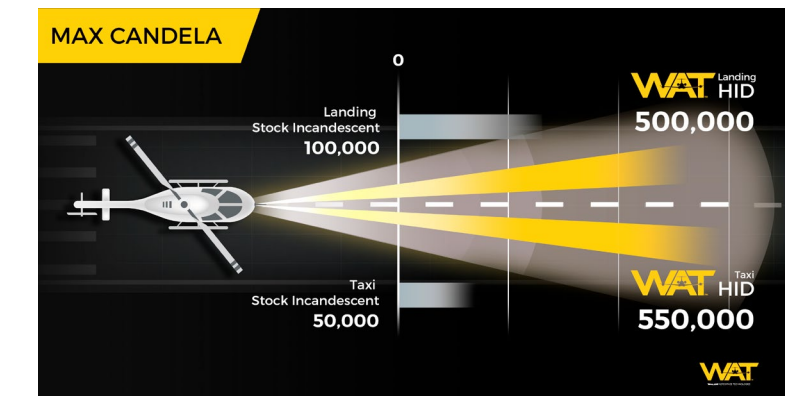
KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-053	A, B, B-3, L, L-1, L-3, L-4	Bell nose mounted landing/ taxi lights	\$5,995



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-133	AB139, AW139	Agusta Westland landing light installation kit	\$4,995



KIT NUMBER	MODELS	DESCRIPTION	PRICE
LSM-500-132	R22, R22 ALPHA, R22 BETA, R22 MARINER, R44, R44 II, R66	Robinson nose mounted landing/ taxi lights	\$4,995





WHELEN AEROSPACE TECHNOLOGIES

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