



**WHELEN** AEROSPACE TECHNOLOGIES

## **TOP PRODUCTS**

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**LED LIGHTING**

**HID LIGHTING**

**MODS**

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PART 23 TOP PRODUCTS | 2020 REV IR

# PARMETHEUS™ PRO PAR 36 & 46 LED

## AVIATION’S BRIGHTEST LED

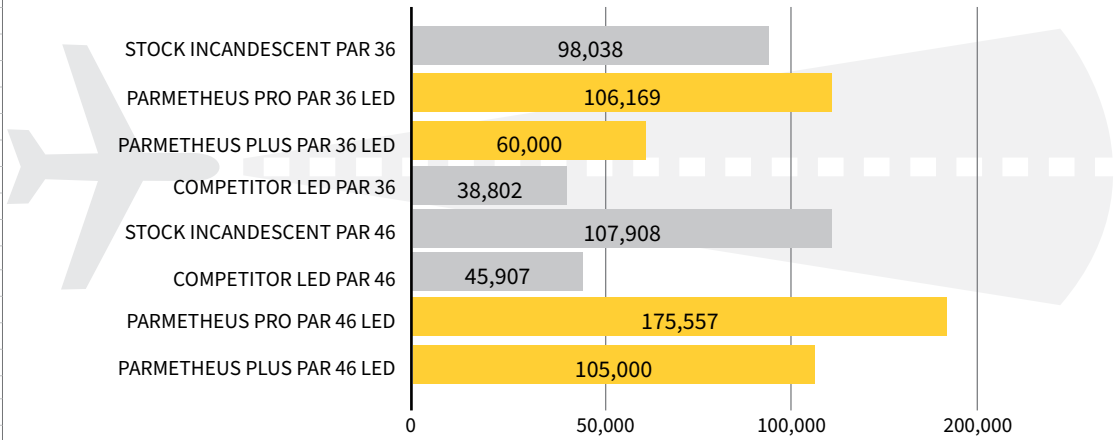
- FAA STCs included for piston and turboprop aircraft.
- Jet STCs are available at an additional cost
- “Drop-In” design offers easy installation and maintenance
- Power wiring attaches to brass screw terminals
- LED Retrofit for PAR-36 or PAR-46 halogen lamps
- Five year warranty
- Simple drop-in installation
- 60-day product buyback
- Patented technology
- **500+ FAA STCs available**



MODEL	PART#	DESCRIPTION	CANDLE POWER	AMPS & VOLTS	SIZE
P36PRO	LSM-SCD-042-1	PAR-36 PRO LANDING	106,169	.9 AMPS @ 28V 1.7 AMPS @14V	4.35”
P46PRO	LSM-SCD-039-1	PAR-46 PRO LANDING	175,557	1.4 AMPS @ 28V 2.9 AMPS @ 14V	5.75

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

Test data below was taken from an independent certified lab indicating the maximum light output in beam candlepower, after 10 minutes of operation.



# PARMETHEUS™ PLUS PAR 36 & 46 LED

## 40% BRIGHTER THAN ORIGINAL PARMETHEUS™

- Optical spot and flood combinations via WAT’s TIR™ (Total Internal Reflector) technology.
- Replaceable, hard-coated, polycarbonate outer lens.
- PAR-36 available in Landing and Taxi versions, PAR-46 available in Landing only.
- Five year warranty
- “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.
- FAA PMA / STC Approved



MODEL	PART#	DESCRIPTION	TYPE	CANDLE POWER	AMPS & VOLTS	MISC
P36P1L	01-0771833-10	PAR 36 LANDING 14V	Landing (Spot Light, 10°)	60,000	1.36 Amps @ 14 VDC	Replacement Outer Lens: 68-3971486A-30
P36P1T	01-0771833-15	PAR 36 TAXI 14V	Taxi (Spreader Optic, 40°)	15,000		
P36P2L	01-0771833-20	PAR 36 LANDING 28V	Landing (Spot Light, 10°)	60,000	.68 Amps @ 28 VDC	WAT Drawing Number: 71833
P36P2T	01-0771833-25	PAR 36 TAXI 28V	Taxi (Spreader Optic, 40°)	15,000		
P46P1L	01-0790750-10	PAR 46 LANDING 14V	Landing (Spot Light, 10°)	105,000	2.6 Amps @ 14 VDC	Replacement Outer Lens: 68-3971577A30 WAT Drawing Number: 90750
P46P2L	01-0790750-20	PAR 46 TAXI 28V	Landing (Spot Light, 10°)	105,000	1.3 Amps @ 28 VDC	





# ORION™ SERIES SELF CONTAINED LED POSITION & ANTI-COLLISION LIGHTHEADS

ORION™ Series Lightheads

All LED self-contained wingtip and tail mounted Position & Anti-Collision system. Eliminates the need for external power supplies, reduces current draw and provides thousands of hours of operation.

## ORION™ 600

**Drawing #:** 71733 **Weight:** 0.5 lbs. (227gm)  
**Current Draw:** 0.48 / 0.17 Amps Position 1.0 / 0.5 Amps Avg. ACL  
**Position LED Color:** Aviation Red, Aviation Green, Aviation White  
**Anti-Collision LED Color:** Aviation White  
**Lens:** Clear polycarbonate hardcoat, field replaceable.



MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	APPROVALS
OR6001G	01-0771733-01	Wingtip, Green, 14 VDC	71733	0.5 lbs. (227gm)	2.04" (52mm) x 1.78" (45mm) x 5.65" (144mm)	TSO-C96a, TSO-C30c Types II & III, E-TSO
OR6001R	01-0771733-02	Wingtip, Red, 14 VDC				TSO-C96a, TSO-C30c Types I & III, E-TSO
OR6002G	01-0771733-11	Wingtip, Green, 28 VDC				TSO-C96a, TSO-C30c Types II & III, E-TSO
OR6002R	01-0771733-12	Wingtip, Red, 28 VDC				TSO-C96a, TSO-C30c Types I & III, E-TSO



## ORION™ 650E

**Drawing #:** 90701 **Weight:** 0.26 lbs. (118gm)  
**Current Draw:** 0.3/ 0.15 Amps Position 0.7/ 0.35 Amps Avg. ACL  
**Position LED Color:** Aviation Red, Aviation Green  
**Anti-Collision LED Color:** Aviation White  
**Lens:**

MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	APPROVALS
OR6501GE	01-0790701-01	Embedded 14 VDC, Green	90701	.26 lbs. (118gm)	1.67" (42mm) x 3.85" (98mm) x 2.20" (56mm)	TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type II
OR6501RE	01-0790701-02	Embedded 14 VDC, Red				TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type I
OR6502GE	01-0790701-11	Embedded 28 VDC, Green				TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type II
OR6502RE	01-0790701-12	Embedded 28 VDC, Red				TSO/ETSO-C96a Class II / TSO/ETSO-C30c Type I



## ORION™ 650

**Drawing #:** 90725 **Weight:** 0.3 lbs. (136gm)  
**Current Draw:** 0.2/ 0.17 Amps Position 0.56/ 0.24 Amps Avg. ACL  
**Position LED Color:** Aviation Red, Aviation Green  
**Anti-Collision LED Color:** Aviation White  
**Lens:** Clear polycarbonate hardcoat, field replaceable.



MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	APPROVALS
OR6501G	01-0790725-01	Wingtip 14 VDC, Green	90725	.3 lbs. (136gm)	1.79" (45mm) x 3.95" (100mm) x 1.68" (43mm)	TSO/ETSO-C96a Class III / TSO/ETSO-C30c Type II
OR6501R	01-0790725-02	Wingtip 14 VDC, Red				TSO/ETSO-C96a Class III / TSO/ETSO-C30c Type I
OR6502G	01-0790725-11	Wingtip 28 VDC, Green				TSO/ETSO-C96a Class III / TSO/ETSO-C30c Type II
OR6502R	01-0790725-12	Wingtip 28 VDC, Red				TSO/ETSO-C96a Class III / TSO/ETSO-C30c Type I

## ORION™ 500

**Drawing #:** 71774 **Weight:** 0.29 lbs. (132gm)  
**Current Draw:** 0.2/ 0.1 Amps Position 0.72/ 0.36 Amps Avg. ACL  
**Position LED Color:** Aviation White  
**Anti-Collision LED Color:** Aviation White  
**Lens:** Clear polycarbonate hardcoat, field replaceable.



MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	APPROVALS
OR5001V	01-0771774V01	Taillight White, 14 VDC	71774	0.29 lbs (132gm)	2.38" (60mm) x 1.75" (44mm) Dia	STC / TSO/ETSO-C96a Class II TSO/ETSO-C30c Type III
OR5002V	01-0771774V02	Taillight White, 28 VDC				



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 assemblies currently STC Approved.



MODEL	PART#	DESCRIPTION	DRAWING#	LENS	APPROVALS
9061391	01-0790613-91	RH Green Wingtip position anti-collision LED	90613	Clear Polycarbonate Hardcoat	FAA STC Approved
9061392	01-0790613-92	LH Red Wingtip position anti-collision LED			FAA STC Approved



90724 SERIES LED BEACONS

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	90724	1.8 lbs. (816gm) (unless otherwise noted)	-11 thru -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-( )									

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



# ORION™ 360 BEACONS

The ORION™ 360's are the 4th Generation LED beacons for fixed wing aircraft. These new assemblies are designed to replace legacy 2.6" and 3.75" round beacons. The ORION 360 beacons are lower profile than legacy product by 60%, are TSO C96a Class III approved, and STC'd. The beacons come in 14 and 28 VDC and in multiple color configurations, (Red / Red - White Split / White)



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
OR36W2WL	01-0772010-23	Aviation White, Lower	3.67" (93mm)	28	0.26 amps average, 1.4 amps peak	TSO-C96a Class III / STC Approved




71080 SERIES LED BEACONS

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. Models -01, -04, -05, -13, -14, -15, -20: Ship with 12” Flying Leads

Models -07, -17, -08, -18: MS3102R10SL-3P Connector

Models -04, -14, -08, -18: designed to replace existing beacons using 5-Hole mounting pattern on a 4.656 dia. bolt circle (Whelen 70285 Series/7090501 Series or 70900 with A440 adapter).

Models -05, -15, -07, -17: 3 ¾” opening designed to fit inside an A440 mounting adapter, mounting holes to fit in place of rotating beacons, Whelen Model HRCFA, or 7090004, -05 Series LED beacons.



MODEL	PART#	DESCRIPTION	DRAWING	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	LENS	APPROVALS
7108051	01-0771080-51	LED Red, 14 VDC, 2.6” mount	71080	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	Aviation Red	Clear polycar- bonate	TSO-C96a Class I
7108055	01-0771080-55	LED Red, 14 VDC, 3.75” adapter, Flying Leads							TSO-C96a Class I
7108001	01-0771080-01	LED Red, 28 VDC, 2.6” mount							TSO-C96a Class I
7108004	01-0771080-04	LED Red, 28 VDC & 5-Hole mount							TSO-C96a Class I
7108014	01-0771080-14	LED Red, 28 VDC & 5-Hole, lower mount							TSO-C96a Class I
7108005	01-0771080-05	LED Red, 28 VDC, 3.75” adapter							TSO-C96a Class I
7108015	01-0771080-15	LED Red, 28 VDC, 3.75” adapter, lower mount							TSO-C96a Class I
7108007	01-0771080-07	LED Red, 28 VDC, 3.75” adapter, MS Conn.							TSO-C96a Class I
7108017	01-0771080-17	LED Red, 28 VDC, 3.75” adapter, lower mount, MS Conn.							TSO-C96a Class I
7108008	01-0771080-08	LED Red, 28 VDC & 5-Hole mount, MS Conn.							TSO-C96a Class I
7108018	01-0771080-18	LED Red, 28 VDC & 5-Hole, lower mount, MS Conn.							TSO-C96a Class I



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.

Models -01, -04, -05, -14, -15, -51, -55: Ship with 12” Flying Leads

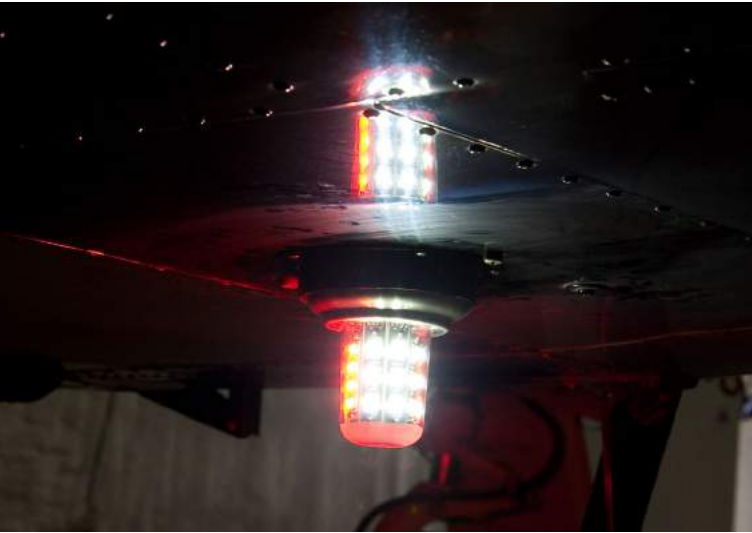
Models -07, -17, -08, -18: MS3102R10SL-3P Connector

Models -04, -14, -08, -18, -55: 3-¾” opening designed to fit inside an A440 mounting adapter, mounting designed to replace existing beacons utilizing a 5-Hole mounting pattern on 4.656 dia. bolt circle (Whelen 70285 Series/7090501 Series or 70900 with A440 adapter).

Models -05, -15, -07, -17: 3-¾” opening designed to fit inside an A440 mounting adapter, mounting holes to fit in place of rotating beacons, Whelen Model HRCFA, or 7090004, -05 Series LED beacons.



MODEL	PART#	DESCRIPTION	DRAWING	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	LENS	APPROVALS
9052051	01-0790520-51	LED Red/White, 14 VDC, 2.75” mount	90520	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	Aviation Red/ White	Clear polycar- bonate	TSO-C96a Class III
9052055	01-0790520-55	LED Red/White beacon, 14 VDC (3.75” adapter, flying leads)							TSO-C96a Class III
9052001	01-0790520-01	LED Red/White, 28 VDC, 2.75” mount							TSO-C96a Class III
9052004	01-0790520-04	LED Red/White, 28 VDC & 5-Hole mount							TSO-C96a Class III
9052014	01-0790520-14	LED Red/White, 28 VDC & 5-Hole, lower mount							TSO-C96a Class III
9052005	01-0790520-05	LED Red/White, 28 VDC, 3.75” adapter							TSO-C96a Class III
9052015	01-0790520-15	LED Red/White, 28 VDC, 3.75” adapter, lower mount							TSO-C96a Class III
9052007	01-0790520-07	LED Red/White, 28 VDC, 3.75” adapter, MS Connector							TSO-C96a Class III
9052017	01-0790520-17	LED Red/White, 28 VDC, 3.75” adapter, lower mount, MS Connector							TSO-C96a Class III
9052008	01-0790520-08	LED Red/White, 28 VDC & 5-Hole mount							TSO-C96a Class III
9052018	01-0790520-18	LED Red/White, 28 VDC & 5-Hole, lower mount							TSO-C96a Class III





# 71554 SERIES

**71554 Series**  
**Drawing #:** 71554  
**Weight:** 0.14 lbs. (64gm)  
**Current Draw:** 0.13 Amps @ 28 VDC 0.26 Amps @ 14 VDC  
**Position LED Color:** Aviation White  
**Lens:** Clear hard-coated polycarbonate



HORIZONTAL MOUNT



VERTICAL MOUNT

MODEL	PART#	DESCRIPTION	DRAWING	WEIGHT	DIMENSIONS	APPROVALS
7155411	01-0771554-11	Horizontal mount, 14 VDC	71554	0.14 lbs. (64gm)	Exposed Height: 1.4" (35.56mm) x 1.59" (40.38mm) x 2.07" (52.57mm)	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



# LED RECOGNITION LIGHT

LED Form / Fit / Function replacement to A775 & A775EXP series.

**Drawing #:** 71888, 71876, 71898  
**LED Color:** Aviation White  
**Dimensions:** 3.16" (80mm) x 1.65" (42mm) x 1.47" (37mm)  
**Lens:** Clear hard-coated polycarbonate



LEGACY A775 SERIES  
FOR REFERENCE ONLY

OEM ORIGINAL PART	LEGACY PART	LEGACY MODEL	LED PART	LED MODEL	DESCRIPTION	APPROVALS
475-346	01-0770110-01	7011001	01-0771958-00	7195800	LED Recog, 14V Piper, Molex connector	-
475-347	01-0770110-02	7011002	01-0771958-01	7195801	LED Recog, 28V Piper, Molex connector	-
	01-0770110-04	A77514	01-0771888-00	7188800	LED Recog, 14V Standard Catalog Item	-
	01-0770110-05	A77528	01-0771888-01	7188801	LED Recog, 28V Standard Catalog Item	-
	01-0770453-00	7045300	01-0771898-00	7189800	LED Recog, 28V, Beech	-
	01-0770453-01	7045301	01-0771898-PO	71898PO	LED Recog, 28V, Beech Painted	-
	01-0770453-02	7045302	01-0771888-00	7188800	LED Recog, 28V, Beech	-
	01-0770111-00	A775EXP1	01-0771888-00	7188800	LED Recog, 14V Catalog	-
	01-0770111-01	A775EXP2	01-0771888-01	7188801	LED Recog, 28V Catalog used on Gulfstream	-
130-381001-0001	01-0770429-00	7042900	01-0771898-01	7189801	LED Recog, 28V Beech, Textron p/n 130-381001-003	PMA



CHROMA™ SERIES



TYPICAL FILAMENT LAMP



CHROMA™  
LED RED



CHROMA™  
LED GREEN

- 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, 28V, Red	0.15 Amps @ 28 VDC	2.05" H x 1.23" W	FAA / STC Approved
CHROMA2G	01-0771900G28	Chroma Position LED Lamp, 28V, Green			FAA / STC Approved
CHROMA1R	01-0771900R14	Chroma Position LED Lamp, 14V, Red	0.30 Amps @ 14 VDC		FAA / STC Approved
CHROMA1G	01-0771900G14	Chroma Position LED Lamp, 14V, Green			FAA / STC Approved

MICROBURST™ SERIES

LED wingtip and tail lighting for experimental and light sport aircraft  
*\* NOT APPROVED FOR CERTIFIED AIRCRAFT. NOT RECOMMENDED FOR NIGHT FLIGHT.*



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

MODEL	PART#	DESCRIPTION	DRAWING#	WEIGHT	DIMENSIONS	CURRENT DRAW	COLOR	LENS
MB3R	01-0771507-020	Forward facing wingtip nav, with CometFlash® 180° LED-Strobe and rear facing white nav	71507	0.21 lbs. (95gm)	1.5" (38mm) exp. H x 1.6" (41mm) W x 4.6 (116mm) L	0.45 amps @ 14 VDC	Red, Green	Clear Polycarbonate hard-coated
MB3G	01-0771507-010							
MB2R	01-0771519-020	Forward facing wingtip nav, with CometFlash 180° LED-Strobe	71519	0.20 lbs. (90gm)	1.5" (38mm) exp. H x 1.6" (41mm) W x 4.6 (116mm) L	0.40 amps @ 14 VDC	Red, Green	Clear Polycarbonate hard-coated
MB2G	01-0771519-010							
MB1	01-0771490-000	Nav taillight with CometFlash 180° LED-Strobe. Same mounting as all Whelen Legacy assemblies	71490	0.15 lbs. (68gm)	1.7" (43mm) H x 1.5 (38mm) Dia.	0.45 amps @ 14 VDC	White	Clear Polycarbonate hard-coated

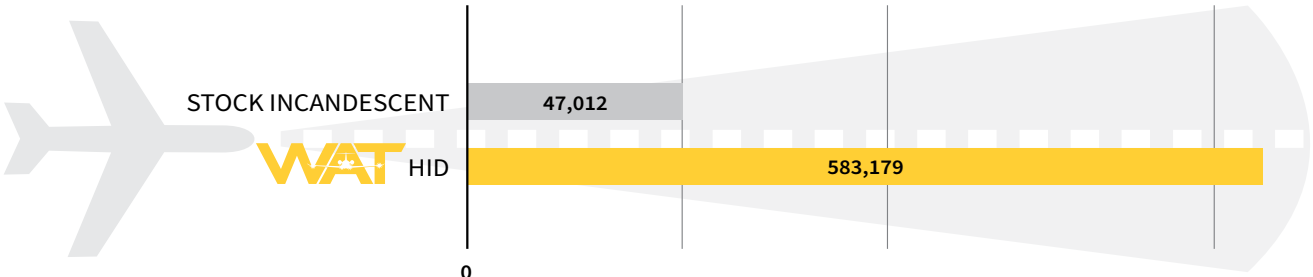


BOOMBEAM HID LANDING & TAXI LIGHT KITS

- Produces 3 - 15 times more light, engineered specially for each model aircraft.
- Increases safety, see and be seen.
- Reduces electrical load and heat output.
- Increased Reliability.
- 5 year/ 5,000hr warranty, proven system based on time-tested components.
- More closely approximates the color temperature of Natural Daylight.
- FAA STC & EASA approvals for hundreds of make/models of aircraft.
- Thousands of installations worldwide.



MAX CANDELA



BEECH BONANZA



KIT NUMBER	DESCRIPTION
LSM-500-006-5	60 Watt, 14 Volt Installation – Cowl Mounted
LSM-500-006-9	85 Watt, 28 Volt Installation– Cowl Mounted
LSM-500-006-11	-11, 60 Watt, 14 Volt Installation – Wing Mounted

CESSNA 400

Lancair Models LC40-550FG, LC41-550FG, LC42-550FG



KIT NUMBER	DESCRIPTION
LSM-500-092-7	14V 60W Conversion From Stock Halogen Landing / Taxi Light Kit
LSM-500-092-9	28V 85W Conversion From Stock Halogen Landing / Taxi Light Kit

CIRRUS

COWLING LANDING LIGHT



KIT NUMBER	AIRCRAFT SERIAL NUMBER	DESCRIPTION
LSM-500-082-17	SR20 S/N 1148-1422 SR22 S/N 0119-0820	85W Round Landing Light Installation Kit - Cowling
LSM-500-082-19	SR20 S/N 1423-2043 SR22 S/N 0821-3495	85W Rectangular Landing Light Installation Kit - Cowling
LSM-500-082-21	SR20 S/N 2044-2126 SR22 S/N 3389-3827 SSR22T with HID Lights	85W Rectangular Landing Light Installation Kit - Cowling
LSM-500-082-27	SR20 S/N 2127 and Subsequent SR22 S/N 3828 and Subsequent SR22T With Factory Installed LED Lights	85W Rectangular Landing Light Upgrade  LED to HID



WINGTIP RECOGNITION LIGHT

KIT NUMBER	AIRCRAFT SERIAL NUMBER	DESCRIPTION
LSM-500-135-1	Models SR20 (G3) Serial Numbers 1886 and Subsequent, SR22 Serial Numbers 2238 and Subsequent, SR22T	85W Cirrus Wing Tip Light Installation



\*\*HUNDREDS OF OTHER STC’D GENERAL AVIATION HID LIGHTING KITS AVILABLE. PLEASE VISIT OUR WEBSITE OR CONTACT US TO SEE IF YOUR AIRCRAFT IS APPROVED. \*\*



# AERODYNAMIC MODS

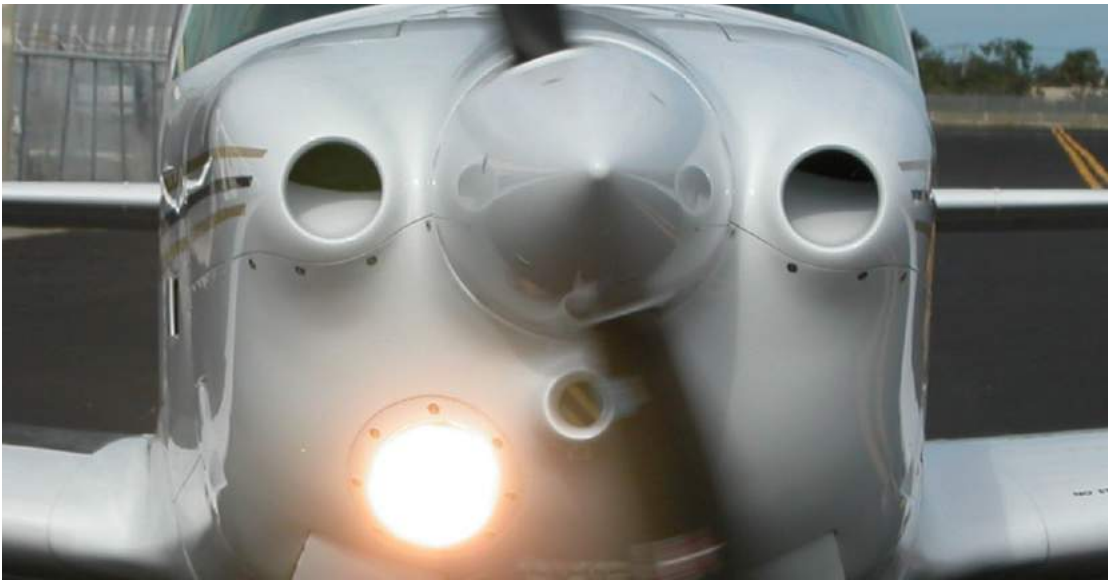
Whelen Aerospace Technologies has many STC and PMA approvals for a variety of different aerodynamic mods for numerous aircraft. Our FAA Approved composite manufacturing shop produces, cowlings, wingtips, spats, splitters, gap seals, and wheel pants for the general aviation market. These products are aesthetically pleasing and help you gain more speed and efficiency.

## COWLINGS

### AVAILABLE FOR:

- PIPER
- MOONEY
- GRUMMAN

Our Cowling Kits come with all brackets and components needed for installation. Kits are shipped in primer grey.



## ZIP TIP (WINGTIPS)

### AVAILABLE FOR:

- PIPER

Our Zip Tip Wingtip Kits come with all components needed for installation, and in a primer grey finish.

You can upgrade to our BoomBeam HID and our LED Nav/Strobe lighting.



- Low Drag Recessed and Covered Nav/Strobe
- Increased Cruise Speed
- Increased Take Off and Better Climb
- Increased Seneca Single Engine Performance
- Stiff Fiberglass Interlocking Ply Construction
- Longer Span Trailing Edge Improves Take Off Performance
- Kit Includes Stainless Steel Hardware, Split Landing Light Switch, Circuit Breaker, and Wires
- STC'd and PMA'd

# AERODYNAMIC MODS



## SPEED SPLITTERS

A two part aerodynamic fairing that covers both the front and rear legs of each of the six exposed flap hinges; this mod is worth 3MPH.



## SPEED SPATS

Reduce the drag caused by the retracted but somewhat exposed main gear wheels and tires. Speed Spats are with 4MPH in speed gain.



## SPEED SEALS

A flap gap seal that provides 3MPH in speed and much improved pitch authority. You'll get the nose gear off sooner and hold the nose wheel off longer after landing.



## HUBBA HUBBA CAPS

Our Hubba Hubba Cap fits most 6-inch aircraft wheels. The Hubba Hubba Cap has an access door with a 1/4 turn fastener for EASY access to the air valve. How many times have your tires been low on pressure but you did not want to remove the hub cap to put air in your tires? The Hubba Hubba Caps will let you keep your wheels and bearings free of dirt and grime.

- New Larger Access Door
- Scratch Resistant Finish
- Keeps your Wheels and Bearings Clean
- Stainless Steel Fasteners
- White Finish
- Low Drag Shape
- Installs in Minutes

## CIRRUS WHEEL PANTS

Whelen Aerospace Technologies (WAT) IceSkates offer new styling, new materials and higher performance for your Cirrus. The WAT IceSkate for your main gear offers a more structurally substantial pant. Our pant is manufactured with better, fire resistant and stiffer materials, (Carbon Fiber, etc). We also know that Cirrus is steered with differential braking so temperatures are critical. In order to help control brake heat and improve brake performance, IceSkates have an air vent that blows fresh air right on the brake calliper. Customers report improved braking and longer brake pad performance. We did not stop there, ice skates also include new and stiffer brackets to mount your pant to your airplane. These stiffer brackets reduce flex and will enhance the longevity of the pant. The IceSkate also has a large access door for your tires air valve. Installation is very simple.







**WHELEN** AEROSPACE TECHNOLOGIES

[WWW.FLYWAT.COM](http://WWW.FLYWAT.COM)

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