

Get **in Touch**

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Total LED Lighting Upgrade for CESSNA **Models 150 / 172**



www.aveoengineering.com

AVEO
ENGINEERING

EASA MODIFICATION APPROVED

AVEO
ENGINEERING

EASA Modification – Cessna 150 / 172

Replacement of exterior lights.

The modification is to replace position, anti-collision, landing and taxi lights by new LED type lights.

The wingtip light replacement includes new wingtips.

**PosiStrobe CP Galactica™
or PosiStrobe Titania™ ***

Rear Position Light

**RedBaron XP Galactica™
or RedBaron Mini Galactica™ ****

Anti-collision Light

Hercules™ Drop-In

Landing or Taxi Lights

**Crystal Conforma™ Wingtip
or Ultra™ Wingtip**

Fiberglass / Carbon Wingtips with Navigation / Strobe Lights

Models:

150C, 172, 172A, 172B, 172C, 172D, 172E,
172F, 172G, 172H, 172I, 172K, 172L, 172M,
172N, 172P, 172Q, 172R, 172S

* PosiStrobe Titania™ will be available soon ** It is necessary to use two of RedBaron Mini Galactica™

Key Features of Aveo LED Lights

Unmatched Performance

AVEO makes the finest aircraft lights in the industry and that is why they are used on space vehicles, high altitude reconnaissance aircraft, business jets, commercial airliners, military fighters and transports and drones/UAVs, and almost every brand of helicopter in the world, not just general aviation aircraft. Unlike its competitors, AVEO refreshes the technologies yearly, to keep pace with the high innovation rate in LEDs and electronics componentry.

Proprietary Technologies

AVEO was the first to incorporate the power supply inside the light more than 15 years ago. Aveo also integrates CuPillar™ proprietary heat removal technology into its circuit boards, as well as NTC thermal management adjustable by firmware, as well as in-house optics that are optimized for every application, which is why AVEO lights remain the brightest and winner in any side-by-side competitive comparison.

Low Drag Conforma™ Technology

AVEO developed the Conforma™ no drag wingtip/winglets and insert modules in its military customers' projects. This technology and expertise has been extended to numerous civilian aircraft now by AVEO, and it has now made its way to the most popular single engine aircraft in the flight school and civil pilot world. Having the lights out of the airstream reduces drag and moreover it permitted AVEO to produce the entire certified wingtip replacement using the latest composite technologies that resulted in a far stronger, but lighter wingtip. This means you can carry more fuel or baggage.

Save Weight

AVEO has optimized the entire MODIFICATION PACKAGE for the Cessna aircraft to reduce the weight and electrical power consumption of the legacy lighting products, and to provide a lighting solution that is dependable and multiple times safer than the factory equipment. AVEO has had the tagline since 2005 of BE SEEN, NOT SORRY and in today's busy airspace that is more important than ever!

Comparison

Aveo Hercules Drop-In



Wing Landing & Taxi Light



Competition



Wing Landing & Taxi Light



Aveo Hercules Drop-In



Nose Cowling Landing Light



Competition



Nose Cowling Landing Light



Crystal Conforma™ Wingtip

Wingtip with Navigation / Strobe Lights

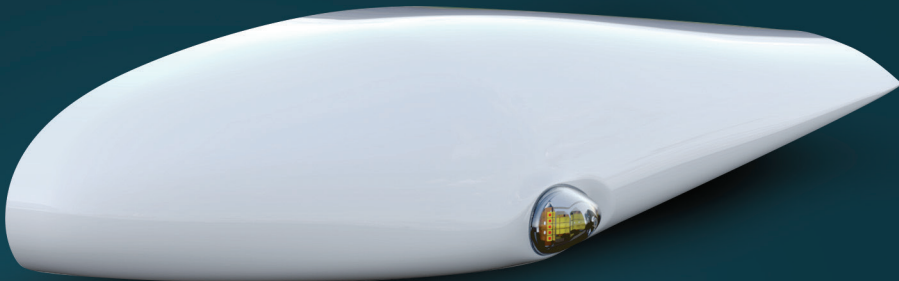
- Cessna Conforma Wingtip Left (Fiberglass)
P/N: AVE-CCCFPSTR-D01
- Cessna Conforma Wingtip Right (Fiberglass)
P/N: AVE-CCCFPSTG-D01
- Cessna Conforma Carbon Wingtip Left
P/N: AVE-CCCCPSTR-D01
- Cessna Conforma Carbon Wingtip Right
P/N: AVE-CCCCPSTG-D01



Ultra™ Wingtip

Wingtip with Ultra Galactica™

- Cessna Wingtip Left UG (Fiberglass)
P/N: AVE-WAUC57CPFL-54G
- Cessna Wingtip Right UG (Fiberglass)
P/N: AVE-WAUC57CPFR-54G
- Cessna Wingtip Left Carbon UG
P/N: AVE-WAUC57CPCL-54G
- Cessna Wingtip Right Carbon UG
P/N: AVE-WAUC57CPCR-54G



- Voltage Range:** 9-36 VDC
- Voltage Protection:**
- Transient Voltage: 60V, both polarities
 - Under-Voltage Lockout: 9V, not more
 - Over-Voltage Lockout: 36V, not less
- Operating Temperature:** -55°C to +80°C
-67°F to +176°F
- Overheat Protection:** +85°C / +185°F

- Input Current:**
- Red Nav (steady) 0.35A (@14V), 0.16A (@28V)
 - Green Nav (steady) 0.45A (@14V), 0.22A (@28V)
 - White Strobe (in pulse) 2.6A (@14V), 1.3A (@28V)
- Input Power:**
- Red Nav (steady) 4.9W (@14V), 4.5W (@28V)
 - Green Nav (steady) 6.3W (@14V), 6.16W (@28V)
 - White Strobe (in pulse) 36.4W (@14V), 36.4W (@28V)

- Wingtip Material & Weight:**
- Fiberglass**
1450 g / 3.196 lb
- Carbon**
1230 g / 2.711 lb

- Voltage Range:** 9-36 VDC
- Voltage Protection:**
- Transient Voltage: 60V, both polarities
 - Under-Voltage Lockout: 9V, not more
 - Over-Voltage Lockout: 36V, not less
- Operating Temperature:** -55°C to +85°C
-67°F to +185°F
- Overheat Protection:** +85°C / +185°F

- Input Current:**
- Red Nav (steady) 0.48A (@14V), 0.25A (@28V)
 - Green Nav (steady) 0.62A (@14V), 0.30A (@28V)
 - White Strobe (in pulse) 2.30A (@14V), 1.40A (@28V)
- Input Power:**
- Red Nav (steady) 6.7W (@14V), 7.0W (@28V)
 - Green Nav (steady) 8.7W (@14V), 8.4W (@28V)
 - White Strobe (in pulse) 32.2W (@14V), 39.2W (@28V)

- Wingtip Material & Weight:**
- Fiberglass**
900 g / 1.984 lb
- Carbon**
830 g / 1.829 lb

RedBaron XP Galactica™

Anti-collision Light

P/N: AVE-RBXPR-001



Dimensions: 64 mm x 64 mm x 39.8 mm
2.52" x 2.52" x 1.565"

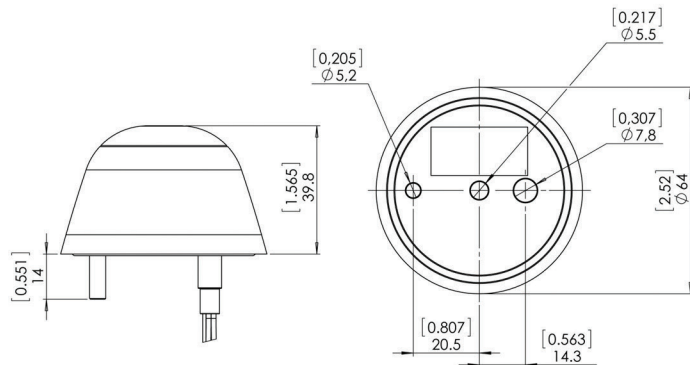
Weight: 150 g / 5.29 oz

Operating Voltage Range: 9-36 VDC

Input Power (in pulse): 68W (@14V), 77.8W (@28V)

Input Current (in pulse): 4.9A (@14V), 2.78A (@28V)

Repetition Flash Rate of Strobe: 50 cycles per minute



RedBaron Mini Galactica™

Anti-collision Light

P/N: AVE-RBXPR-002



Dimensions: 58 mm x 58 mm x 33.4 mm
2.283" x 2.283" x 1.313"

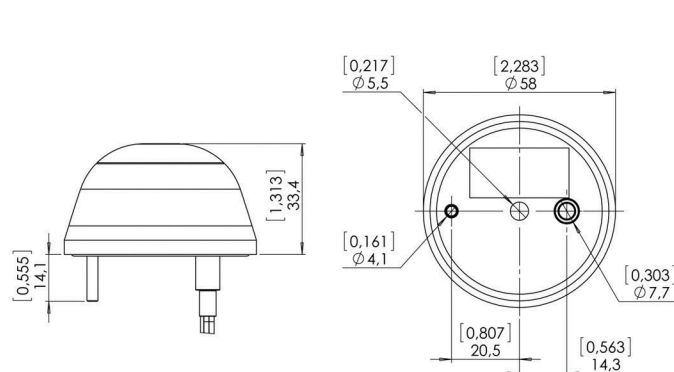
Weight: 96 g / 3.38 oz

Operating Voltage Range: 9-36 VDC

Input Power (in pulse): 40W (@14V), 40W (@28V)

Input Current (in pulse): 2.8A (@14V), 1.4A (@28V)

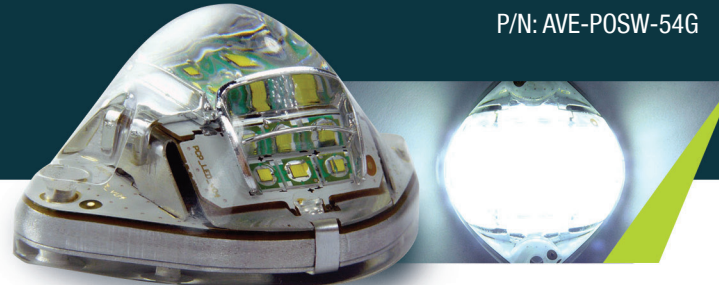
Repetition Flash Rate of Strobe: 50 cycles per minute



PosiStrobe CP Galactica™

Rear Position / Strobe Light

P/N: AVE-POSW-54G



Dimensions: 56 mm x 45 mm x 27 mm
2.19" x 1.77" x 1.06"

Weight: 60 g / 2.12 oz

Operating Voltage Range: 9-36 VDC

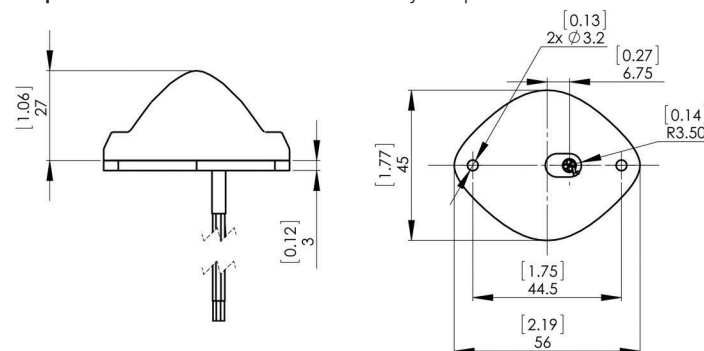
Input Power (steady): 5.2W (@14V), 5.6W (@28V)

Input Current (steady): 0.37A (@14V), 0.2A (@28V)

Input Power (in pulse): 63W (@14V), 54W (@28V)

Input Current (in pulse): 4.5A (@14V), 1.9A (@28V)

Repetition Flash Rate of Strobe: 50 cycles per minute



Hercules Drop-In™

Landing or Taxi Light

P/N Landing: AVE-H30TATSNL-T0A
P/N Taxi: AVE-H30TATSNT-T0A



Dimensions: 111,5 mm x 53,2 mm
4.390" x 2.095"

Weight: 460 g / 1.014 lb

Operating Voltage Range: 9-36 VDC

Input Power (not less): 100W (@14V), 100W (@28V)

Input Current (not less): 7.15A (@14V), 3.57A (@28V)

Landing Lens (10° beam): 141,000 Cd

Taxi Lens (40°x20° beam): 42,000 Cd

