



# POLARIS

Portable aviation  
runway lighting  
fixture

## Application

The POLARIS Portable LED Lighting Kit is used to set-up a temporary or semipermanent lighting system to allow aircrafts or helicopters to land on grass strips, frozen lakes, roadways, or as an emergency runway lighting on major airports.

POLARIS can be used as a standalone fitting or as part of a complete transportable runway lighting kit and is available for all relevant applications including:

- ▶ Runway Edge (white) bi & omnidirectional
- ▶ Taxiway Edge (blue)
- ▶ Runway end (red)
- ▶ Threshold (green)
- ▶ Combined threshold/Runway End



UK: +44 (0) 1942 68 5555 | USA: 001 (239) 985-9406

[www.atgairports.com](http://www.atgairports.com) [products@atgairports.com](mailto:products@atgairports.com) [sales-usa@atgairports.com](mailto:sales-usa@atgairports.com)

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## Technical Data

Fixture	LED Colour and No.	Peak (Cd)	Main Beam (FP)			Picture
			H	H	H	
Approach - APP	2 x White	1673	-5°/+5°	1°/5°	1372	
Threshold - THR	2 x Green	1306	-5°/+5°	1°/5°	1120	
Runway End - RND	2 x Red	846	-5°/+5°	1°/5°	701	
Threshold / End - TND	1 x Green	655	-5°/+5°	1°/5°	571	
	1 x Red	361	-5°/+5°	1°/5°	295	
Runway Edge - RWE WW	4 x White	1116	-5°/+5°	1°/5°	901	
Runway Edge - RWE WY	1 x Yellow	344	-5°/+5°	1°/5°	301	
	3 x White	1086	-5°/+5°	1°/5°	900	
Runway Edge - RWE WY	1 x Yellow	338	-5°/+5°	1°/5°	286	
	3 x White	982	-5°/+5°	1°/5°	784	
Runway Edge - RWE O	4 x White	708	360°	2°/+4°	611	
Taxiway - TXW	2 x Blue	36	360°	2°/+4°	27	
Turning Pad - TRP	2 x Yellow	71	180°	2°/+4°	57	
Touchdown Zone - TDZ	1 x White	1007	-5°/+5°	2°/+4°	874	
Runway End - RND 2	2 x Red	2284	-5°/+5°	1°/5°	1592	
Runway Edge - RWE R/E	1 x Red	361	-5°/+5°	1°/5°	295	
	3 x Yellow	334	-5°/+5°	1°/5°	301	

Case material	Polycarbonate
Case colour	Aviation yellow (RAL 1004)
Diffuser	Shock resistant clear polycarbonate - IK10
Battery type	Lead-acid

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## Features

- ▶ High Intensity 3W LEDs
- ▶ Over 60,000 hours typical life expectancy
- ▶ No lamp changes needed during the life of each unit
- ▶ Battery recharge in 8 hours
- ▶ Charging true connector
- ▶ Up to 90 hours light output between charges for flashing light fittings with one LED, minimum autonomy 12 hours in steady lighting fittings with four LEDs
- ▶ Case material: UV resistant polycarbonate
- ▶ Watertight gaskets for all joints
- ▶ Lens material: high load and thermal resistant transparent PMMA MIL-C-7989B
- ▶ Finished in aviation yellow colour
- ▶ Protection: IP67 rated
- ▶ Flashing or steady signal
- ▶ Low voltage battery protection
- ▶ Every unit is able to withstand jet blast

## Control Options

- ▶ Manual (Standard)
- ▶ Photocell
- ▶ Radio

## Electrical Supply

- ▶ Power supply is provided by 1 rechargeable sealed lead acid battery 12V-12Ah
- ▶ Power Consumption: 3W for each LED

## Battery Charging

- ▶ The battery charger is made of individual steel trays designed to host the POLARIS fittings during storage and transportation. Individual charging slots are fitted with corrosion proof contacts situated at the bottom to allow charging of the units by simply dropping them in place.
- ▶ Every POLARIS fitting is equipped with an individual control module monitoring the charging process taking into account all the electrical parameters and temperature compensation.

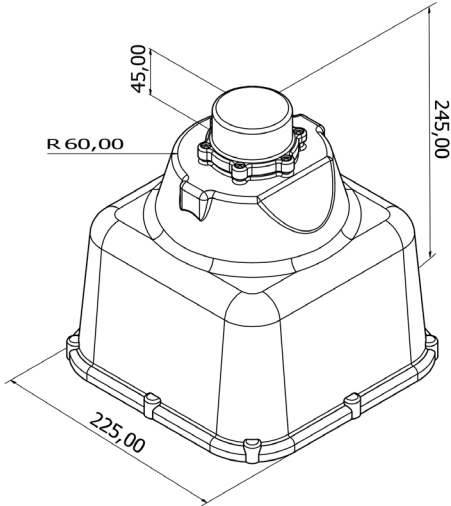
## Trailer

- ▶ A complete POLARIS system can be delivered in a trailer, reducing time and effort needed for deployment, recovery and charging of the lights units.
- ▶ The trailer houses a charging station for every light but is still compact in size; less than 4m in length, 1.7m wide and weighing less than 1400 kg. The trailer is equipped with the charging racks to host 66 POLARIS lighting fittings. The rack system consists of 3 rows of 11 charging slots per side of the trailer.
- ▶ The trailer is suitable for transportation by L-100 or similar sized cargo aircraft without disassembly, easy hitching and towing and provides secure storage of the light units when the system is not in use.
- ▶ The trailer coupling can be adapted to suit the vehicle towing requirement, it is certified for on-road use and it is compliant with the all necessary standards for military trailers including braking system, lighting, hooks, etc. The certified trailer speed is over 50 km/h, it is equipped with a spare tyre and includes the tooling required for the tyre change.

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## Dimensions



## Packaging

- ▶ Overall dimension: 237 x 251 x 251 mm
- ▶ Weight : 2,8 Kg



**atg airports ltd**  
Lowton Business Park | Newton Road  
Lowton St. Mary's | Warrington  
WA3 2AP | United Kingdom

**atg airports inc**  
7857 Drew Circle #11  
Fort Myers | Florida 33967  
USA



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