How to Order
Orders can be made through website payment (aircraft lights only) or on a proforma basis.
To arrange your order, get in touch with us today.

**Telephone – (+44) 01743 296406**
Have a chat to our friendly team on the phone to see what we can do for you.
Opening Hours: Monday to Friday 9:00-17:00

**Email – info@smoothaviation.com**
Send us your requirements today. We will always get back to you within 24 hours.

**Web – www.smoothaviation.com**
Find all our information in this catalogue and much more on our modern website.

**Post – Smooth Aviation Ltd, March Way, Shrewsbury, SY1 3JE**
Send us the enclosed order form or a letter to our business address in Shrewsbury. Please allow up to 7 working days for a response.

**Visit Us – Office in Shrewsbury / Aviation Base at EGCV (Sleap)**
We welcome all visitors. If you do wish to pop in, please call us beforehand so we can arrange someone to be there. If flying into Sleap, we can offer a free landing fee.

**Notes:**

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Obstruction Lighting

Run from a 220 AC connection for use in certified environments such as buildings, cranes, towers and obstructions in and outside an airfield boundary. All ICAO certified. 5-year warranty.

SA-OBL16R – Medium Intensity Obstruction Light – Red

- Power Consumption: ≤10w
- Flashing Frequency: 20-60/min
- Intensity: 2000cd
- Life Span: 100,000 hours
- Beam Angle: 360° Horizontal / 3° Spread
- GPS Synchronization
- IP65 & Lighting Protection: 15KA
- Operating Temperature: -40°C to 55°C
- Weight: 2.5kg
- Maximum Windspeed: 178mph

Used for several applications and can be used with other units via GPS synchronization.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor.
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
- Frangible base available.

SA-OBL15 – Medium Intensity Obstruction Light – Red or White

- Power Consumption: ≤10w Night / ≤30w Day
- Flashing Frequency: 20-60/min
- Intensity: 2000cd Night / 20,000cd Day
- Lifespan: 100,000 hours
- Beam Angle: 360° Horizontal / 3° Spread
- GPS Synchronization
- IP65 & Lighting Protection: 15KA
- Operating Temperature: -40°C to 55°C
- Weight: 7kg
- Maximum Windspeed: 178mph

Used for several applications and can be used with other units via GPS synchronization.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor.
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
- Frangible base available.
SA-OBL146R/2 – Dual Medium Intensity Obstruction Light – Red

- Power Consumption: ≤10w
- Flashing Frequency: 20-60/min
- Intensity: 2000cd
- Life Span: 100,000 hours
- Beam Angle: 360° Horizontal / 3° Spread
- GPS Synchronization
- IP65 & Lighting Protection: 15KA
- Operating Temperature: -40°C to 55°C
- Weight: 2.5kg
- Maximum Windspeed: 148mph

Used for several applications and can be used with other units via GPS synchronization. Dual unit ideal for obstructions with a large spread, instead of placing 2 single units next to each other.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor.
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.

SA-OBL11 – Low Intensity Obstruction Light – Red

- Power Consumption: ≤5w
- Steady Burning
- Intensity: 32cd
- Lifespan: 100,000 hours
- Beam Angle: 360° Horizontal / ≥3° Spread
- IP65 & Lighting Protection: 10KA
- Operating temp: -40°C to 55°C
- Weight: 1kg
- Maximum Windspeed: 178mph

Used for several applications especially the industrial market or aerodrome airside obstructions.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor.
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
SA-OBL11/2 – Dual Low Intensity Obstruction Light – Red

- Power Consumption: ≤5w
- Steady Burning
- Intensity: 32cd
- Lifespan: 100,000 hours
- Beam Angle: 360° Horizontal / ≥3° Spread
- IP65 & Lighting Protection: 10KA
- Operating temp: -40°C to 55°C
- Weight: 1kg
- Maximum Windspeed: 178mph

Used for several applications especially the industrial market or aerodrome airside obstructions.

SA-OBL12 – Low Intensity Obstruction Light with Base – Red

- Power Consumption: ≤5w
- Steady Burning
- Intensity: 32cd
- Lifespan: 100,000 hours
- Beam Angle: 360° Horizontal / ≥3° Spread
- IP65 & Lighting Protection: 10KA
- Operating temp: -40°C to 55°C
- Weight: 1kg
- Maximum Windspeed: 178mph

Used for several applications especially the industrial market or aerodrome airside obstructions.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor.
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
- Frangible Base.

SA-OBL18 – High Intensity Obstruction Light

- Power Consumption: ≤5w
- Flash Rate: 40 times/min
- Intensity:
  - ≤50Lux = 2000cd (± 25%)
  - 50 to 500Lux = 20000cd (± 25%)
  - >500Lux = 200,000cd (± 25%)
- Lifespan: 100,000 hours
- Beam Angle: 360° Horizontal / ≥3° Spread
- IP65 & Lighting Protection: 10KA
- Operating temp: -40°C to 55°C
- Weight: 8kg
- Max windspeed: 170mph
Solar Obstruction Lighting

Solar powered lights with internal battery. For use in certified environments such as buildings, cranes, towers and other obstructions in and outside an airfield boundary where power is not easily available or as a temporary solution. All ICAO certified. 3-year warranty included.

SA-OBL16R/SLR – Solar Medium Intensity Obstruction Light – Red

- Power Consumption: ≤10w
- Flashing Frequency: 20-60/min
- Intensity: 2000cd
- Life Span: 100,000 hours
- Beam Angle: 360° Horizontal / 3° Spread
- GPS Synchronization
- IP65 & Lighting Protection: 15KA
- Operating Temperature: -40°C to 55°C
- Weight: 17kg
- Maximum Windspeed: 120mph

Used for several applications and can be used with other units via GPS synchronization.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor.
- Built-in chip computer that precisely controls discharge.
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
- No 230v connection required, the ideal solution for temporary units.

SA-OBL15/SLR – Medium Intensity Obstruction Light – Red or White

- Power Consumption: ≤10w Night / ≤30w Day
- Flashing Frequency: 20-60/min
- Intensity: 2000cd Night / 20,000cd Day
- Lifespan: 100,000 hours
- Beam Angle: 360° Horizontal / 3° Spread
- GPS Synchronization
- IP65 & Lighting Protection: 15KA
- Operating Temperature: -40°C to 55°C
- Weight: 17kg
- Maximum Windspeed: 120mph

Used for several applications and can be used with other units via GPS synchronization.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor.
- Built-in chip computer that precisely controls discharge.
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
- No 230v connection required, the ideal solution for temporary units.
SA-OBL11/SLR – Low Intensity Obstruction Light – Red

- Power Consumption: ≤5w
- Steady Burning
- Intensity: 32cd
- Lifespan: 100,000 hours
- Beam Angle: 360° Horizontal / ≥3° Spread
- IP65 & Lighting Protection: 10KA
- Operating temp: -40°C to 55°C
- Weight: 1kg
- Maximum Windspeed: 178mph

Used for several applications especially the industrial market or aerodrome airside obstructions.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor.
- Built-in chip computer that precisely controls discharge.
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
- No 230v connection required, the ideal solution for temporary units.
- Post mounting bracket available.

Don’t know what unit you should use to comply with The Air Navigation Order?
Use our helpful online tool at:
smoothaviation.com/obstruction-lighting

Or get in touch:
(+44) 01743 296406
info@smoothaviation.com
Identification Beacons

Trouble finding your runway or heliport? Install a hassle-free identification light to make night or bad weather flights easier. A mix of solar, certified, non-certified and warning beacons, all with a 5-year warranty included.

SA-IDT15 – Non-Certified Ident Beacon – Red, White, Yellow

- Power Consumption: ≤30w
- Flashing Frequency: 20-60/min
- Intensity: 20,000cd
- Lifespan: 100000 hours
- Beam Angle: 360° Horizontal / 3° Spread
- IP65 & Lighting Protection: 15KA
- Operating temp: -40°C to 55°C
- Weight: 7kg
- Max windspeed: 178mph

Used for private strips or helipads, these beacons can be seen from 25km in white or yellow, and 10km in red. Ideal for finding your strip or pad in day, night and bad weather. Installation typically takes less than 3 minutes.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor providing brighter output in daytime (optional).
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
- Separate SMS control unit can be provided to allow on/off functionality from your phone (SIM card not included).

SA-IDT15/SLR – Solar Non-Certified Ident Beacon – Red, White, Yellow and Green

- Power Consumption: ≤30w
- Flashing Frequency: 20-60/min
- Intensity: 20,000cd
- Lifespan: 100000 hours
- Beam Angle: 360° Horizontal / 3° Spread
- IP65 & Lighting Protection: 15KA
- Operating temp: -40°C to 55°C
- Weight: 17kg
- Max windspeed: 120mph

Used for private strips or helipads, these beacons can be seen from 25km in white or yellow, and 10km in red. Ideal for finding your strip or pad in day, night and bad weather. Installation typically takes less than 3 minutes.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor.
- Built-in chip computer that precisely controls discharge.
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
- No 230v connection required, the ideal solution for temporary units.
**SA-IDT16R – Medium Intensity Identification Beacon – Red / White**

- Power Consumption: ≤10w
- Flashing Frequency: 20-60/min
- Intensity: **2000cd**
- Life Span: 100,000 hours
- Beam Angle: 360° Horizontal / 3° Spread
- GPS Synchronization
- IP65 & Lighting Protection: 15KA
- Operating Temperature: -40°C to 55°C
- Weight: 2.5kg
- Maximum Windspeed: 178mph

Used for Private Strips or Helipads, these beacons can be seen from 10km. Ideal for finding your strip/pad in day, night and bad weather. Install often takes under 3 minutes.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor providing brighter output in daytime (optional).
- High-quality LEDs. Strong build, simple design and a market leading 100,000-hour life span.
- Separate SMS control unit can be provided to allow on/off functionality from your phone (SIM card not included).

**SA-HT13 – High Intensity Rotating Ident Beacon**

- Power Consumption: 6.6amp
- Intensity: **200,000cd**
- Lifespan: 15000 hours
- Beam Angle: 360° Horizontal / 3° Spread
- IP65 & Lighting Protection: 15KA
- Weight: 16kg
- RPM: 12.5/min

Used for licenced aerodromes and heliports, these beacons can be seen from 30km.

Features include:
- Casing with anti-UV which is high efficiency light transmission up to 90 with high impact resistance, suitable for harsh environments.
- Built-in photo lux day/night sensor providing brighter output in daytime (optional).
Helipad Lighting

Affordable, Efficient & Safe. These are all reasons to upgrade your helipad to LED lighting. Our lights are super energy efficient. Small helipads can use just 0.8 amps and boast a 100,000-hour life span. Installing LED lights into your helipad allows the pilot to locate the pad far easily, day or night. In addition, our team will help with design, organize professional installation and will be on hand 7 days a week, before and after installation to make upgrading your helipad lighting as smooth as possible.

We create your helipad lighting design around exactly what you need, starting from a basic white FATO ring all the way to full professional lighting including TLOF, FATO, floods and much more. See our demo drawing below, and a complex setup example on the next page. All units come with a 10-year warranty.

Visit www.helipadlighting.co.uk for more designs.
**Helipo Design**

**HELIPAD LIGHTING DESIGN 1**

- Flashing Ident Light
- Obstruction Light
- Approach Light
- Skid Marker Light
- Touchdown & Lift-Off (TLOF) Light
- Final Approach & Take Off (FATO) Light
- Surface Flood Light (With Hood)
- LED Windsock

- LED Helipad Beacon

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MAPLE AVIATION
CN-09 – LED Helipad FATO Light - White

- Incapsulated to IP65
- Size: Base plate 110mm x 110mm x 6mm Height: 19mm (round base plate available)
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- Fully Dimmable
- Polarity Protected
- White 110 cd

Features include:
- All aluminum construction designed to take high stress loading.
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easily repaired allowing very low operating costs.
- Pedestal available.

CN-09 – LED Helipad TLOF Light - Green

- Incapsulated to IP65
- Size: Base plate 110mm x 110mm x 6mm Height: 19mm (round base plate available)
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- Fully Dimmable
- Polarity Protected
- Green 38 cd

Features include:
- All aluminum construction designed to take high stress loading.
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easily repaired allowing very low operating costs.
- Pedestal available.

CN-09 – LED Helipad Approach Light - Yellow

- Incapsulated to IP65
- Size: Base plate 110mm x 110mm x 6mm Height: 19mm (round base plate available)
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- Fully Dimmable
- Polarity Protected
- Yellow 80 cd

Features include:
- All aluminum construction designed to take high stress loading.
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easily repaired allowing very low operating costs.
- Pedestal available.
CN-09 – LED Helipad Skid Marker Light- Blue

- Incapsulated to IP65
- Size: Base plate 110mm x 110mm x 6mm Height: 19mm (round base plate available)
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- Fully Dimmable
- Polarity Protected
- Blue 70 cd

Features include:
- All aluminum construction designed to take high stress loading.
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easily repaired allowing very low operating costs.
- Pedestal available.

CN-08 – LED Helipad Obstruction Light - Red

- Incapsulated to IP65
- Size: Base plate 110mm x 110mm x 6mm Height: 300mm
- 200 - 240 VAC
- 8 Watt
- 40 Milliamps
- Polarity Protected
- 35 cd

Features include:
- All aluminum construction designed to take high stress loading.
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easily repaired allowing very low operating costs.

CN-19 – LED Helipad Ident Light - White

- Incapsulated to IP65
- Size: Base plate 110mm x 110mm x 6mm Height: 250mm
- 200 - 240 VAC
- 8 Watt
- 40 Milliamp
- Polarity Protected
- 2300 cd
- 100 flashes/min

Features include:
- All aluminum construction designed to take high stress loading.
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easily repaired allowing very low operating costs.
CN-15 – LED Helipad Flood with Hood - White

- Encapsulated to IP65
- Size: Base plate 110mm x 110mm x 6mm Height: 250mm
- 200 - 240 VAC
- 10 Watt
- 700 Milliamps
- Polarity Protected
- 35 cd

Features include:
- All aluminum construction with frangible pedestal.
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easily repaired allowing very low operating costs.
- Intense output throws large amounts of light on the surface without blinding the pilot.

CN-20 – LED Helipad Lit Windsock

- Mild Powder Coated Steel
- Size: 900mm x 3200mm
- 200 - 240 VAC
- ICAO Approved Nylon Sock
- 8 Watt
- 40 Milliamps
- Polarity Protected
- 300 cd

Features include:
- Mild powder steel coated in colour of choice.
- Ready-to-install post with rotating bearings installed.

SM-HT12/P – CHAPI Heliport Approach Path Indicator

- Voltage/Frequency Required (one per site)
- CHAPI-CM-HT12/P 120 volts, 60 Hz Clinometer
- 220-240 volts, 60 Hz (aiming device)
- 220-240 volts, 50 Hz
- Quantity 2 CHAPI Unit 2 Lamps CM-HT12/P
- 2 Small CCR AC220V-230V

Features include:
- All aluminum construction with frangible pedestal.
- Simple design and high-quality LEDs provide a market leading life span.
- The PAPI system is used to guide aircraft to approach the runway at an appropriate altitude. The upper half of the PAPI's beam is white and the lower is red. In the visual range, different elevation lights in PAPI systems allow the aircraft to see different colours at different altitudes.
**Approach Path on a Rooftop Helipad.**

Custom made retrofit base plates were used to fit in the existing cut out. Normal base anchor sizes are fractionally bigger than the unit base plate. Please see the *Base Plate* section for full info.
Aerodrome Lighting

Today, airport runway lighting systems are equipped with basically the same incandescent light bulb technology that was invented by Thomas Edison more than a hundred and thirty years ago, which is vastly inefficient. As a solution to the problem, airports have begun to install light emitting diodes (LEDs) as runway edge lights and taxiway lights, in hope to increase safety and reduce costs of runway operation.

LED’s are the most energy efficient of all lighting systems. Furthermore, LED lights last for up to 80 000 hours. This results in airport and helipads which are brighter, safer and cheaper to run and repair.

We use AGL (Aerodrome Ground Lighting) systems that have been accepted by the CAA as meeting both UK aerodrome licensing criteria and internationally agreed standards and recommended practices. Units listed in this catalog are for non-precision approaches only. We can offer CATIII units. For all units come with a 10-year warranty.

We work around you, creating solutions exactly for your needs, without any fancy language or massive bills. We have a variety of methods for installation, such as new install, retrofit and permeable paving solutions for grass strips.

Get in touch with us today to organise a site survey or answer any questions you may have.
**CN-09 – LED Runway Edge Medium Intensity Light- White**

- Incapsulated to IP65
- Size: Base plate 110mm x 110mm x 6mm Height: 19mm
  (Round base plate available)
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- Fully Dimmable
- Polarity Protected
- White 230 cd

Features include:

- All aluminum construction designed to take high stress loading.
- Simple design and high-quality LED’s provide a market leading life span.
- Small current draw and easy repairs allow very low operating costs.
- Pedestal available.

Runway Edge Lighting is located along the edges of the area declared for use as the runway delineated by edge markings and may be provided either by elevated or by flush fitting lamp fixtures. All our flush or elevated units use roughly 0.03 watts, about 90% less than the old-style incandescent lights. A basic 800m runway with our edge lights uses about a 1/6th of a amp compared to a single incandescent unit, leading to significant running cost decrease (about 70% less).

**CN-14 – LED Runway Edge High Intensity Light- White**

- Incapsulated to IP65
- Size: Base plate 110mm x 110mm x 6mm Height: 19mm
  (Round base plate available)
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- Fully Dimmable
- Polarity Protected
- White 500cd

Features include:

- Frangible design.
- Simple design and high-quality LED’s provide a market leading life span.
- Small current draw and easy repairs allow very low operating costs.
- Used for longer runways or if there is a demand for brighter units.

Runway Edge Lighting is located along the edges of the area declared for use as the runway delineated by edge markings and may be provided either by elevated or by flush fitting lamp fixtures. All our flush or elevated units use roughly 0.03 watts, about 90% less than the old-style incandescent lights. A basic 800m runway with our edge lights uses about a 1/6th of a amp compared to a single incandescent unit, leading to significant running cost decrease (about 70% less).
CN-12 – LED Taxi Edge Light

- Incapsulated to IP65
- Size: Base Plate 110mm x 110mm x 6mm Height: 19mm (round base plate available)
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- Fully Dimmable
- Polarity Protected
- Blue 60cd

Features include:
- All aluminum construction designed to take high stress loading.
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easy repairs allow very low operating costs.
- Pedestal available.

Taxiway Edge Lighting is located along the edges of the area declared for use as the taxiway delineated by edge and may be provided either by elevated or by flush fitting lamp fixtures. All our flush or elevated units use roughly 0.03 watts, about 90% less than the old-style incandescent lights.

CN-13 – LED Runway Threshold Light – Red/Green

- Incapsulated to IP65
- Size: Base Plate 110mm x 110mm x 6mm Height: 19mm (round base plate available)
- 200 - 240 VAC
- 6.5 Watt
- 350 Milliamps
- Fully Dimmable
- Polarity Protected
- Green 800cd/ Red 380cd

Features include:
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easy repairs allow very low operating costs.
- Frangible design.

Our runway threshold lights show both red and green at 180 degrees respectively. These are fitted at the end of the runway, or at the side for a displaced threshold. These lights are sometimes ignored by smaller airfields, but they significantly improve approaches and runway rolls, as the end is clearly visible.
CN-19 – LED Runway Approach Light – White

- Incapsulated to IP65
- Size: Base Plate 110mm x 110mm x 6mm Height: 19mm
  (round base plate available)
- 200 - 240 VAC
- 6.5 Watt
- 350 Milliamps
- Fully Dimmable
- Polarity Protected
- White 500cd

Features include:
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easy repairs allow very low operating costs.
- 10foot mounting post available.

A variety of approach lighting systems, based on the centre line and cross bar concept, are in use at aerodromes throughout the UK. These systems range from the simple low intensity extended centre line or cross bar to the more complex Calvert System comprising centre line and 5 cross bars for day and night use on ILS equipped runways. Simple approach lighting systems normally commence 500 m prior to the runway if possible.

Approach Lights make operating on a runway in poor weather or night much easier.

SM-HT12/P – APAPI Approach Path Indicator

- Voltage/Frequency Required (one per site)
- CHAPI-CM-HT12/P 120 volts, 60 Hz Clinometer
- 220-240 volts, 60 Hz (aiming device)
- 220-240 volts, 50 Hz
- Quantity 2 CHAPI Unit 2 Lamps CM-HT12/P
- 2 Small CCR AC220V-230V

Features include:
- All aluminum construction with frangible pedestal.
- Simple design and high-quality LED’s provide a market leading life span.
- The PAPI system is used to guide aircraft to approach the runway at an appropriate altitude. The upper half of PAPI’s beam is white and red in the lower half. In the visual range, different elevation lights in PAPI systems allow the aircraft to see different colors at different altitudes.
CN-20 – LED Helipad Lit Windsock

- Mild Steel Powder Coated
- Size: 900mm x 3200mm
- 200 - 240 VAC
- ICAO Approved Nylon Sock
- 8 Watt
- 40 Milliamps
- Polarity Protected
- 300 cd

Features include:
- Mild steel powder coated in colour of choice.
- Ready-to-install post with rotating bearings installed.

CN-14 – LED Solar Taxi Edge Light

- Incapsulated to IP65
- Size: Base Plate 110mm x 110mm x 6mm Height: 19mm (round base plate available)
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- Fully Dimmable
- Polarity Protected
- Blue 60cd

Features include:
- Small current draw and clever control chip ensures optimal power use.
- Pedestal available.

CN-27 – LED StopGuard WigWag Light - Yellow

- Incapsulated to IP65
- Size: Base Plate 110mm x 110mm x 6mm Height: 19mm (round base plate available)
- 200 - 240 VAC
- 6.5 Watt
- 350 Milliamps
- Fully Dimmable
- Polarity Protected
- Yellow 100cd

Features include:
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and easy repairs allow very low operating costs.
- The back and forth wigwag motion makes the hold easy to spot and pilots must stop before clearance is given.
CN-100 – Control Board for Runway Lighting

Features include:
- Custom made to order.
- SMS and PTT control options.
- Can be made for outdoor use.
- Painted in corrosion resistance and anti-UV plastics finish.
- 6 circuits of output and can be changed according to requirement.
  (Auto, Manual and Remote three modes for user’s choice.)
- Reliable, safe, easy to use and maintain.

CN-109 – Portable LED Runway Edge Medium Intensity Light- White

- Incapsulated to IP65
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- White 230cd
- 2-hour standby time
- 4 hours maximum on time.

Features include:
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and clever control chip ensures optimal power use.
- For temporary runway lighting, with a quick set up that can be used anywhere.

CN-113 – Portable LED Runway Threshold Light- Red/Green

- Incapsulated to IP65
- 200 - 240 VAC
- 4 Watt
- 20 Milliamps
- Green 800cd/Red 380cd
- 2-hour standby time
- 4-hour maximum on time.

Features include:
- Simple design and high-quality LEDs provide a market leading life span.
- Small current draw and clever control chip ensures optimal power use.
- For temporary runway lighting, with a quick set up that can be used anywhere.
Light Installation Anchors

We offer 3 types of base fixings for all Helipad and Aerodrome lights. Most of the units have two base plate options, round and square. After extensive research, aluminum anchors with the round base plates are most often used, but concrete anchors with square base plates are also available.

CN-BCAN – Aluminum Round Base Anchors

Features include:
- For use with round base plates.
- Round base plates have a very similar size and appearance to square plates.
- Neat fixing with no base visible when light is attached.
- Up to 3 conduit outputs (to order).
- Stabilizing legs for firm hold when concreted in.
- Round shape easier to bore-out in existing concrete/tarmac/grass.

CN-CANC– Concrete Square Base Anchors

Features include:
- For use with square base plate.
- Up to 2 conduit outputs (to order).
- Heavy Duty.

EcoGrid Permeable Paving Solution

Features include:
- Paving or grass reinforcement grids for helipads and runways
- Fully integrated with Smooth Aviation Lights for an easy install.
- A hard-standing helipad with full lighting and ICAO markings could take as little as 6-7 hours for complete installation.

For more information and prices get in touch.

*This product is not available from catalogue order.*
Aircraft Lighting

LED’s are the most energy efficient of all lighting systems, reducing strain on your aircraft power supply and increasing safety tenfold. Furthermore, LED lights last for up to 80 000 hours, making it not only a visually pleasing upgrade but a life-long one too. Get seen by aircraft, birds and from the ground to make your flying much safer.

SA-SNAV – LED Wingtip Nav/Strobes

- Input Voltage: 11.5 – 28 VDC
- Strobe Section: Power Usage: 3.7w Average
- Strobe Section: Power Max (During Flash): 28w
- Strobe Section: Current (at 12v): 2A
- Navigation Section: Power Usage: 0.36w
- Navigation Section: Current: 0.07A
- Strobe Light Output: 2520 lumens
- Navigation Light Output: 66 lumens (Red), 120 lumens (Green)
- Operating temperature -40°C to +70°C

Features include:
- Waterproof and dust proof rated IP68.
- US highest grade resin, never fading and super strong.
- Optional mounting hole for wings unable to gain access to the other side.
- Sleek and aerodynamic design, with no bulky strobe box.
- Zero radio or electrical interference and is completely silent.
- Life span of 20,000 hours.
- Easy installation with anytime support.

SA-TAIL – LED Tail Light

- Input Voltage: 11.5 – 28 VDC
- Strobe Power Max (During Flash) : 1.3W
- Strobe Power Static: 0.5W
- Strobe Light Output: 100 lumens
- Strobe Light Output Static: 50 lumens

Features include:
- Waterproof and dust proof rated IP68.
- US Highest grade resin, never fading and super strong.
- Optional mounting hole for wings unable to gain access to the other side.
- Sleek and aerodynamic design, with no bulky strobe box.
- Zero radio or electrical interference and is completely silent.
- Life span of 20,000 hours.
- Easy installation with anytime support.
SA-STRO – LED Strobe Only Unit

- Input Voltage: 11.5 - 28 VDC
- Strobe Section: Power Usage: 3.7W Average
- Strobe Section: Power Max (During Flash): 28W
- Strobe Section: Current (at 12V): 2A
- Strobe Light Output: 2520 lumen’s
- Operating temperature: -40°C to +70°C

Features include:
- Waterproof and dust proof rated IP68.
- US Highest grade resin, never fading and super strong.
- Optional mounting hole for wings unable to gain access to the other side.
- Sleek and aerodynamic design, with no bulky strobe box.
- Zero radio or electrical interference and is completely silent.
- Life span of 20,000 hours.
- Easy installation with anytime support.

SA-SMOK – LED ‘Smoker’ Landing/Taxi Light

- Voltage Range: 9-36 DC
- Current Draw at 12V: 2amps
- WigWag Sync: Built in
- Beam Angle: 10 Degrees
- LED Lumens: 4500
- Colour Temperature: 5500K
- Body Material: Silver anodised aluminum
- Lens Material: Perspex
- Radio Interference: Nil

Features include:
- The streamlined shape means the light can be fitted to any surface parallel with the airflow, i.e. a cowl, under the wing, wingtip, meaning you can install a super bright landing light on any aircraft.
- 9 super bright LEDs delivering 4500 lumens.
- Tough metal design rated to IP68.
- WigWag function to allow 2 units to strobe back and forth, creating safer and more aesthetically pleasing landing light.
- Average life span of 20,000 hours.
- Mounting bolts included.
SA-LANDL – LED Landing/Taxi Light

- Voltage Range: 9-36 DC
- Current Draw At 12V: 1.3amps
- Pulse Light Feature: Built-in 500ms
- Wigwag Sync: Built In
- Beam Angle: 10 Degrees
- LED Lumens: 4000
- Colour Temperature: 5500K
- Body Material: Black Anodised Aluminum

Features include:
- 4000 lumens significantly increasing visibility
- Tough metal design rated to IP68.
- WigWag function to allow 2 units to strobe back and forth, creating a safer landing light.
- Average life span of 20,000 hours.
- Mounting bolts included.

SA-LBEAC – LED Large Beacon – Red/White

- White Beacon (72 LEDs) (red on special order)
- Input Voltage: 11.5 – 28 VDC
- Strobe Power Usage: 5.33 Average
- Strobe Power Max (During Flash): 39W
- Strobe Current (at 12V): 2A
- Strobe Light Output: 1566 lumens

Features include:
- 3000 lumens, significantly increasing visibility.
- Only 5.2w used, reducing strain on the aircraft’s electronic system
- Waterproof and dust proof rated at IP68.
- High grade resin and highest quality LEDs.

SA-SBEAC – LED Small Beacon – Red/White

- Red Beacon (white on special order)
- Input Voltage: 11.5 – 28 VDC
- Strobe Power Usage: 3.52W Average
- Strobe Power Max (During Flash): 26.4W
- Strobe Current (at 12V): 2A
- Strobe Light Output: 2500 lumens

Features include:
- 2500 lumens, significantly increasing visibility
- Only 5.2w used, reducing strain on the aircraft’s electronic system.
- Waterproof and dust proof rated at IP68.
How to Order

Orders can be made through website payment (aircraft lights only) or on a proforma basis. To arrange your order, get in touch with us today.

**Telephone – (+44) 01743 296406**

Have a chat to our friendly team on the phone to see what we can do for you.
Opening Hours: Monday to Friday 9:00-17:00

**Email – info@smoothaviation.com**

Send us your requirements today. We will always get back to you within 24 hours.

**Web – www.smoothaviation.com**

Find all our information in this catalogue and much more on our modern website.

**Post – Smooth Aviation Ltd, March Way, Shrewsbury, SY1 3JE**

Send us the enclosed order form or a letter to our business address in Shrewsbury. Please allow up to 7 working days for a response.

**Visit Us – Office in Shrewsbury / Aviation Base at EGCV (Sleap)**

We welcome all visitors. If you do wish to pop in, please call us beforehand so we can arrange someone to be there. If flying into Sleap, we can offer a free landing fee.

**Notes:**

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Obstruction Lighting Warranty

All OBL/IDT lights come with a 5-year warranty. This time is split to cover different defects/damage. The price of the units includes the warranty, there is no need for an additional purchase*

5-year any-time warranty for up to 51% of number of total lights installed.

• Replacement units for damage or failure caused by factors outside of customer control. This could include but not limited to:
• Damage by aircraft (up to 3 units)
• Lightning strikes
• Damaged due to glider or tow activity
• Driver failure
• LED failure
• Housing/waterproofing failure

What is not covered?

• Damage by aircraft to more than 3 units.
• Acts of God.
• Damage by misuse or poor treatment of the unit.
• Damage by poor electrical conduct.
• Damage by vehicles other than aircraft such as fire trucks, cars or lorries.
• Damage by poor installation or unsafe fixings.
• Normal wear and tear of the unit where applicable.
• If the lights are removed from the facility and sold second hand, all warranties are void.
• *If the lights are sold to a second owner before the end of the 5-year period, an extended warranty must be bought by the new owner to continue the warranty.

All warranty cases will be reviewed by Smooth Aviation Ltd and appropriate information on the defect/damage must be given to allow investigation. At all times Smooth Aviation Ltd can deny a warranty claim, but this can be appealed by the correct means.
Helipad & Aerodrome Lighting Warranty

All runway lights come with a 10-year warranty. This time is split to cover different defects/damage. The price of the units includes the warranty, there is no need for an additional purchase*

5-year any-time warranty for up to 50% of number of total lights installed.
Replacement units for damage or failure caused by factors outside of customer control. This could include but not limited to:

- Damage by aircraft (up to 3 units).
- Lightning strikes.
- Damaged due to glider or tow activity.
- Driver failure.
- LED failure.
- Housing/waterproofing failure.

10-year warranty for all units installed.

- Replacement units only for select circumstances. This is normally only for failure of the unit.
- LED failure due to defect.
- Driver failure due to defect.

What is not covered?

- Damage by aircraft to more than 3 units.
- Damage by misuse or poor treatment of the unit
- Damage by poor electrical conduct
- Damage by vehicles other than aircraft such as fire trucks, cars or lorries.
- Damage by poor installation or unsafe fixings.
- Normal wear and tear of the unit where applicable.
- If the lights are removed from the facility and sold, all warranties are void.
- *If the lights are sold to a second owner after the 5-year period, an extended warranty must be bought by the new owner to continue the warranty for another 10 years.

*All warranty cases will be reviewed by Smooth Aviation Ltd and appropriate information on the defect/damage must be given to allow investigation. At all times Smooth Aviation Ltd can deny a warranty claim, but this can be appealed by the correct means. Smooth Aviation Ltd is a registered company in England & Wales: 11108798