

WORKING TO HELP YOU
SAVE MONEY AND REDUCE YOUR CARBON IMPACT



SunFIRE™ LED Streetlight

The **SunFIRE™** is a resilient LED luminaire, capable of providing between 40 - 70% cost savings, ideally suited to street, area, residential and a host of other lighting applications.

An intelligent, long lasting lighting system that reduces energy consumption, lowers carbon emissions and allows the customer to be in control of light intensity and associated costs.

Designed and built with high quality materials to avoid early replacement, unlike many LED fixtures being sold on the market today.

Imagine never having to change a bulb again...



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SunFIRE™ uses high flux LED's on high quality modular boards and in conjunction with our unique software controlled LED temperature monitoring and control system, this ensures maximum lamp life. It has the ability to set the maximum temperature on the LED's allowing the customer to maximise and control the life of the product. Designed for "fit and forget" (FAF) applications to limit continuous maintenance.

The **SunFIRE™** lighting products are suitable for a wide range of applications. Lights can be powered from renewable power sources such as solar, wind and water.

SunFIRE™ has dynamic power control. This enables the unit to automatically modulate light output in response to ambient light levels (with potential additional energy savings). Using a PIR enables dimming of the light during periods of low traffic. This can be programmed to send light activation to a single light or whole group of lights for a road, pathway or area.

SunFIRE™ products can be manufactured to customer specification in order to provide a spectrum of desired colour rendering (Ra) and colour appearance (K), from warmer white (2,700K) to cool white (6,500K +), this in conjunction with the various optical packages provides a flexible solution.

Customers have typically used the **SunFIRE™** to replace 35-250 Watt HPS luminaires.

Specifications

Product Code	SF7A (AC Power) or SF7D (DC Power)
Supply Voltage	8 – 15VDC, 20 – 28VDC (low voltage) 90 – 264VAC
Power Rating	Programmable range between 0 – 77 Watts Rated 77W, Typical connected load 85W
Lumen Level	Average 4,788 Photopic lumens or 10,840 Scotopic lumens
Operating Temperature	- 10°C to + 70°C Ambient (-30°C with ramp set)
Circuitry Operating	LEDs – 150°C Maximum Tj (Junction Temperature) Controller board circuitry – 105°C Maximum Typical operating conditions at full power, Tj = 80°C
Humidity	0 – 99%
Ingress Classification	IP66
Body Material	High grade LM20 Cast Aluminium
Lens Material	Polycarbonate graded at ISO 178
Lens Light Transmission	Luminous Transmittance 88%
Light Cooling	Convection & Software Temperature Controlled
Colour Appearance & Rendering	2,700°K – 10,000°K range (Warm–Natural or Cool White) Typical 5,000°K– 6,500°K offering Ra=75 (CRI=75%)
Luminaire Lifetime	Approx. 50,000hrs. When operated at a Tj of below 63/80°C then 50,000 – 100,000 hours to reach 70% of original light output (not to failure)
Photocell & Movement Sensor	PV sensor inbuilt providing a variable light output depending on ambient light level. Programmable settings can be used in conjunction with PIR sensor
Compliance	CE, RoHS, BS EN 60598-2-3:2003, BS EN 60598-1:2004
Finish	Powder coated finish in matt black or custom colour upon request
Dimensions	H 280mm x W 340mm x D 340mm
Mounting	Rear or bottom mounted with 42mm, 63mm 76mm
Weight	7.25kg
Production	Made in United Kingdom (Wales)

Standard Functions & Features

- Fully automatic light-adjusting dusk-to-dawn sensor (the light either increases or decreases brightness automatically – fully programmable).
- LED automatic temperature control (using our innovative PN junction temperature control).
- PIR movement light activation.
- A range of light schedules can be programmed facilitating various power saving modes.
- Remote luminaire alarms and ancillary functions (e.g. road temperature sensing, vibration sensing, intruder detection) Additional features include remote power output control, monitoring, LED max/min temperature setting, scheduling on/off times, fault reporting, 100% dimming from any output power, ramping power timer and system diagnostics.
- Colour rendering on our standard package of Ra \geq 75.
- Wireless control of the luminaires allow for 100% customisation of lights.

Please contact us for further information or to discuss your specific requirements