

WORKING TO HELP YOU
SAVE MONEY AND REDUCE YOUR CARBON IMPACT



SunFLOWER LED Area Lighting

The **SunFLOWER** is a durable and versatile LED luminaire, capable of providing between 40 - 70% cost savings, ideal for indoor and outdoor lighting applications including streets, roadways, large area lighting, parking areas, factories, atria or shopping centres.

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



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SunFLOWER 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 **SunFLOWER** is a modular light that can be used in many applications. It is an extremely bright light with relatively low power consumption.

SunFLOWER 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 motion sensor enables dimming of the light during periods of low traffic. This can be programmed to send light activation to a single light or to a whole group of area lights. **SunFLOWER** products can be manufactured to customer specification in order to provide a spectrum of desired colour rendering (Ra) and colour appearance (K). This means that RGBW (High intensity Red, Green and Blue) LED modules can replace some of the white modules to allow for a fully programmable colour changing light. The light can then offer unlimited colour output but can also change as necessary to the intense bright white light when required. The change of colour can be manual or automatic and can be activated by either the onboard schedules or a movement sensor.

Specifications

Product Code	SBF8 (88W), SBF10 (110W), SBF12 (132W), SBF16 (176W), SBF20 (220W) Available in AC Power (A) or DC Power (D) options
Supply Voltage	20 – 28VDC 90 – 264VAC
Power Rating	Programmable range between 10 – 220 Watts
Lumen Level	Average 5,280 – 13,200 Photopic lumens or 11,953 – 29,882 Scotopic lumens
Operating Temperature	- 10°C to + 70°C Ambient (- 30°C with ramp set)
Circuitry Operating Temperature	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 – Luminaire, IP67 – LED Modules
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 white, cool white or RGB (Red Green Blue) 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 55mm x W 667mm x D 667mm
Mounting	Pole, wall or ceiling mount – allowing 360°rotation of the LED module
Weight	7.1 kg
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).
- Various lens options available to suit different light distribution requirements.
- LED automatic temperature control (using our innovative PN junction temperature control).
- PIR movement light activation.
- Remote luminaire alarms and ancillary functions (e.g. road temperature sensing, vibration sensing, intruder detection).
- A range of light schedules can be programmed facilitating various power saving modes.
- 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 light modules facilitates 100% customisation of lights.

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