

WORKING TO HELP YOU
SAVE MONEY AND REDUCE YOUR CARBON IMPACT



SunMinO LED Light Module

The **SunMinO** is a compact, durable and versatile LED luminaire, ideally suited for:

- Retail Environments
- Walkways
- Sign Illumination
- Security and many more applications.

A long lasting, bright light 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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SunMinO LED Light Module



The **SunMinO** is a small, safe, modular light that can be used in many applications. It is an extremely bright light with low power consumption.

SunMinO 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 MinO 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 activated by either the onboard schedules or by a movement sensor.

The **SunMinO** can offer all the same wireless remote control and monitoring functions as the other Low Energy Designs **SunFAMILY** products and can be supplied as a complete lighting system. Additionally the light can be supplied with a straight plug in AC power supply or a manual dimming on/off switch and various optical packages.

SunMinO is ideal as a general purpose effective and efficient light or for use with a solar panel to provide standalone, simple lighting solution for sign illumination, bus shelters etc.

Specifications

Product Code	SMW (White) or SMRGB (Red, Green & Blue) Available in AC Power (A) or DC Power (D) options
Supply Voltage	8 – 15VDC, 20 – 28VDC (low voltage) 90 – 264VAC
Power Rating	Programmable range between 1 – 11 Watts (SMW) or 1 – 15 Watts (SMRGB)
Lumen Level	Average 608 – 768 Photopic lumens or 1,376 – 1,739 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	IP68
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 &	Can be connected to PV sensor to provide 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 35mm x W 45mm x D 210mm
Mounting	Wall or ceiling mount – allowing 360°rotation of the LED module
Weight	268g (without bracket), 314g (with bracket)
Production	Made in United Kingdom (Wales)

Standard Functions & Features

- Manual on/off or (optional) dimmable or colour changing Red, Green, Blue, White module.
- 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.
- 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