

DESCRIPTION

The INCAND-AIR 30 is a high power LED based downlight system developed for retrofitting into the mounting hardware of existing high power downlights (the 250W Par 38), or use as a complete luminaire for new installations.

INCAND-AIR 30 features a specifically developed LED light engine and is capable of producing beautiful, high CRI whites of any Correlated Colour temperature (CCT) and accurately replicates the colour temperature shift that is characteristic of incandescent lamps when dimmed. INCAND-AIR has the benefit of an ability to produce not only excellent whites, but rich, vivid colours.

The INCAND-AIR 30 features a specifically developed LED light engine based on an array of 30 x Red, Green, Blue, White and Amber Luxeon LEDs.

INCAND-AIR 30 achieves outstanding, totally smooth dimming performance from 100% to black. This is accomplished by the use of an Adaptive Resolution dimming method. This ensures that colours remain consistent and controllable at all levels, which is critical for the accurate control of colour temperature during dimming. All luminaires across the installation dim smoothly to the same level and colour temperature. They dim at the same rate and finally fade to black at the same time, with no flicker or step change to off.

Light output and LED life have been maximised through the employment of a highly effective thermal management system. The junction temperatures of the LEDs are maintained at a level low enough to provide 70% Lumen maintenance after 60,000 hours. The application of effective passive cooling, and the use of heatpipes results in a luminaire that does not generate any fan noise, or fan related maintenance issues.

Should a situation occur where the temperature of the LEDs increases to a point where the usable life of the LEDs is threatened, the AIRLED will take steps to maintain the temperature at a normal operating level, while alerting the monitoring system of the issue through DMX-RDM.

Features

- AIR- Adaptive Interactive Resolution provides intimate and accurate control of the light output from the LEDs thus ensuring smooth dimming performance over the entire dimming range.
- Multiple control modes including adaptive resolution dimming of individual colours channels for full control of custom colours and fades.
- Incandescent Mode Replicates the colour temperature shift that is characteristic of Halogen lamps when dimmed.
- Local thermal fold-back.
- Effective, considered thermal management for LED longevity and reliability.
- Resistant to power fluctuations.
- Perfectly smooth dimming from 100% to Black.
- C E and C-Tick compliant.
- Temperature and fault monitoring feedback.
- Digital AIR dimming ensures all luminaires across the installation, fade to black smoothly, at the same time.

SPECIFICATIONS



GENERAL

Operating Temperature	-10 to + 45°C when correctly installed
IP Rating	IP 20
Dimensions H x DIA	258mm x Ø275mm approx
Weight	3.2 kg approx. LED Light Head only

ELECTRICAL

Supply Voltage	100-240VAC, 47-63Hz
Max Wattage (incl driver)	65W (All colours @ 100% intensity) 55W (Incandescent mode)
Compliance	CE and C-tick EN61347-1, EN61347-2-13, EN55015, EN60598-1: 2003 EN60598-2-1:1989
Efficiency	PSU: 82-87%, Driver: 97%
Control	DMX 512 / RDM Option
DMX connection	RJ45
Data Isolation	2kV Optical C Isolation
Remote On/Off Control	Dry Contact Closure
Thermal Protection	Active management by AIRLED driver
LED Driver Current	Multiple Channels & Currents: 350, 500, 700mA
AV PWM Resolution	Adaptative Variable - 14bit
Output Connection	Plug in wiring loom

OPTICAL

Output	Up to 2160lm (all colours @ 100% intensity depending on Optics Configuration)
LED Colours	Red, Green, Blue, White, Amber
CRI	≥ 90 @ 20-100% Brightness in Incandescent mode
Colour Temperature	Variable (1,700K to 2,600K in Incandescent mode) Settable (1,700 to 6500K in RGBWA Mode)

KIT CONTENTS

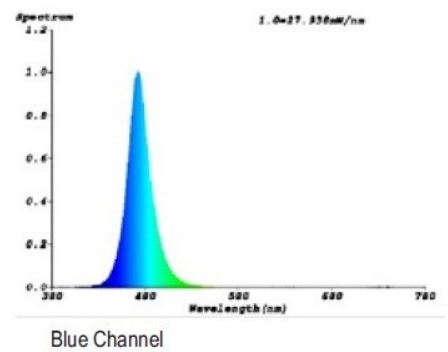
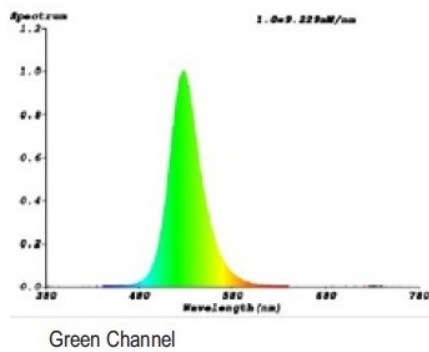
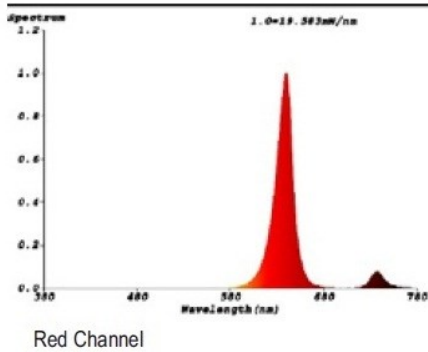
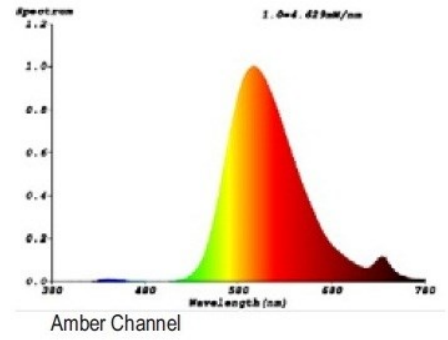
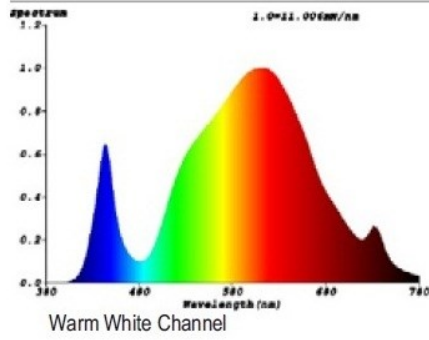
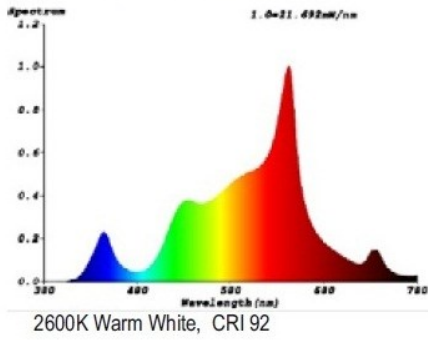
1x LDOH003-30M4-001	INCAND-AIR LED Downlight Engine
1x LDOH003-30-003	AIRLED RGBWA LED Driver – Suits LDOH003-30
1x LDOH003-30-004	PSU 24VDC 80W – Suits LDOH00 3-30
1x LDOH003-30-005	Internal Wiring Harness - Suits LDOH003-30

ACCESSORIES

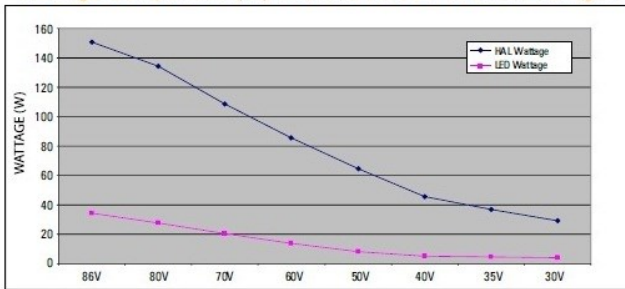
1x LDOH001-24-006	DMX Termination Jumper
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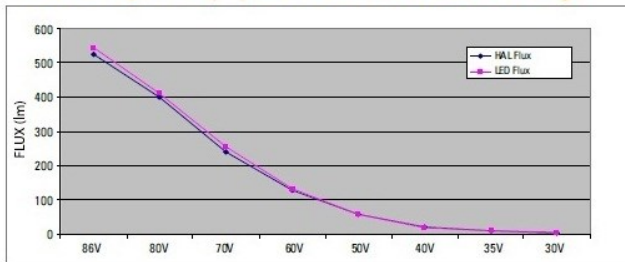
SPECTRAL DISTRIBUTIONS



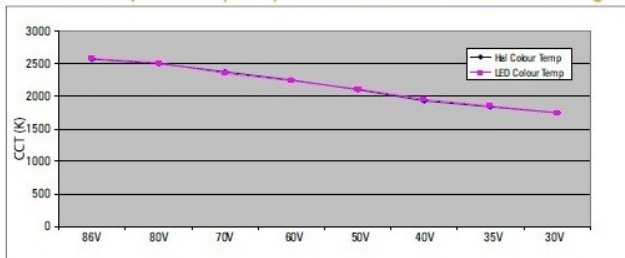
Wattage Comparison (W) INCAND-AIR 30 vs 250W Halogen



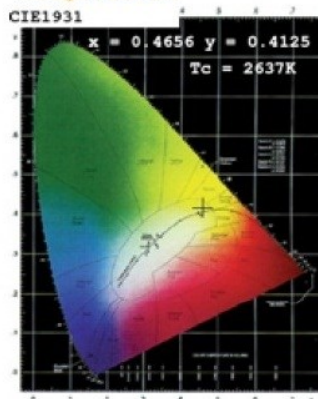
Flux Comparison (lm) INCAND-AIR 30 vs 250W Halogen



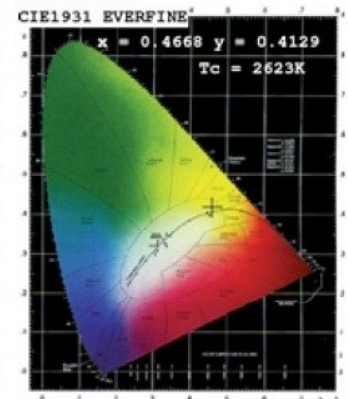
Colour Temperature (CCT) INCAND-AIR 30 vs 250W Halogen



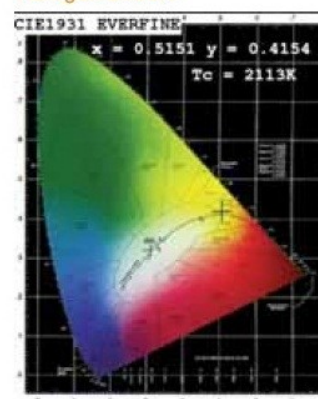
Halogen 2600K



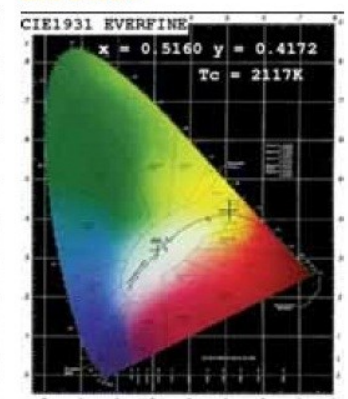
LED 2600K



Halogen 2100K



LED 2100K



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