Chil-LED™

The Coolest Light for Cold Places

Temperature Controlled Area Light

ENGINEERED FOR MAXIMUM EFFICIENCY

Chil-**LED**™ is a lighting solution that has been specifically designed for use in controlled temperature environments, key features include:

- **Low energy, high performance light output**
- **Durable, lightweight, hygienic, ultra low profile, wide choice of beam angles**
- **Simple, fast installation**
- **UK manufactured with 5-year extended warranty**

Chil-**LED**™ is the ideal LED lighting option for the following applications:

- **Chilled & frozen storage**
- **Temperature controlled production areas**
- **Food production factories and packing areas**
- **High care food preparation areas**
- **Pharmaceutical production and storage areas**
- **Clean rooms and clean zones**

THE ENERGY AWARDS 15 WINNER

CE

Patent Application No. 1407673.1

Premium Quality Made in UK

IP65 RATED

EXTENDED 5 YEAR WARRANTY

INVENTRONICS
DRIVING THE LIGHTING REVOLUTION

UPGRADED FOR 2018

OLIVEWOOD
Efficiency through Technology

Efficiency Design Installation Reliability

Olivewood Technology, Unit S1, Mendip Business Park, Mendip Road, Rooks Bridge, Somerset, BS26 2UG

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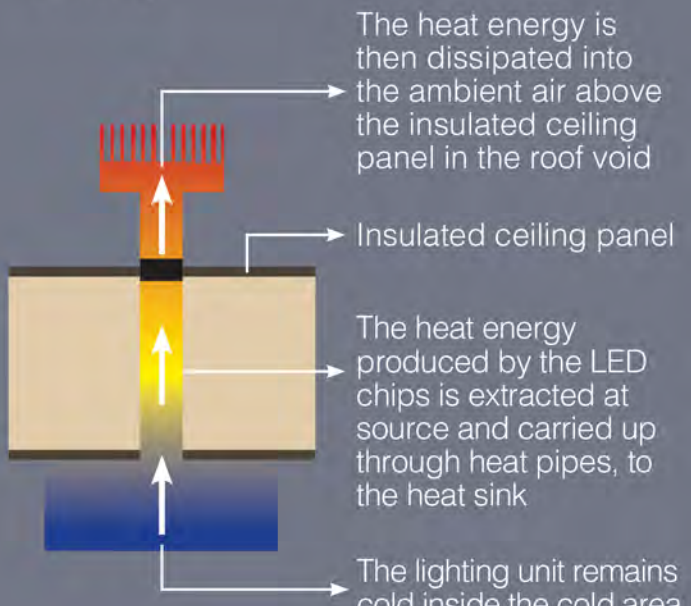
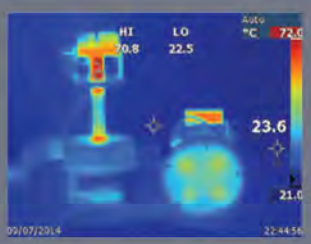
Efficiency

- **Low energy, high performance light output**
- **73% energy saving with Chil-LED™ 90 compared with a 250 W metal halide or low bay**
- **23% energy saving with Chil-LED™ 90 compared with a well designed 90 W LED equivalent**
- **Almost zero heat gain in the cold area, reducing refrigeration costs**
- **Reduced HVAC load**
- **Latest generation of highly efficient COB LED modules**
- **DALI and analogue dimmable**
- **Wireless controls**
- **Integrated 3 hr emergency with self test**

Unique Patented Heat Pipe System Engineered Utilising Thermodynamics for Maximum Efficiency





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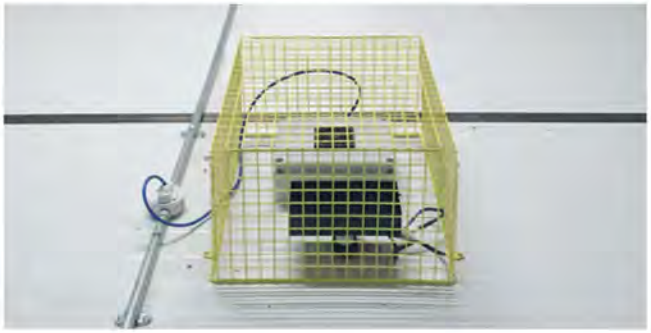
Design

- **Highly durable, lightweight, top spec polycarbonate unit**
- **Hygienic, white, smooth, neat exterior**
- **Ultra low profile, only 70mm intrusion into operating area**
- **Wide choice of beam angles (lens options) to optimise use of available light, maximise light distribution and ensure uniformity across different mounting heights**

Typical Installation Above Ceiling in Roof Void Including Protective Caging



Insulated Ceiling Panel Cross Section

Lamp Unit, Below Ceiling Panel, Inside Cold Area

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Installation

- **Simple, fast installation**
- **Single hole mounting system**
- **Sealed IP67 click connectors to drivers and emergency box including optional protective caging**
- **Easy access to drivers, emergency box and wiring above the operating environment**
- **Moulded upper seal**
- **Adhesive lower gasket seal**
- **Integrated clip and clamp system**

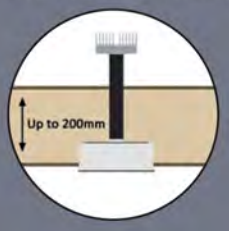
Applicable Building Types:

- **Internal insulated panel constructions**
- **50mm to 200mm ceiling panel thickness**
- **4m to 15m internal ceiling height**
- **Clear roof void above ceiling (between internal insulated panel construction and outer building shell)**

Flush Fitting

Ceiling panel thickness up to 200mm

Recessed Fitting



Ceiling panel thickness from 100mm

Reliability

- **Latest generation LED chips and lenses**
- **High performance Inventronics drivers**
- **Thermal monitoring system**
- **Air pressure balancing system**
- **Active lumen output compensation**
- **IP65 rated**
- **UK manufactured**
- **5-year extended warranty**

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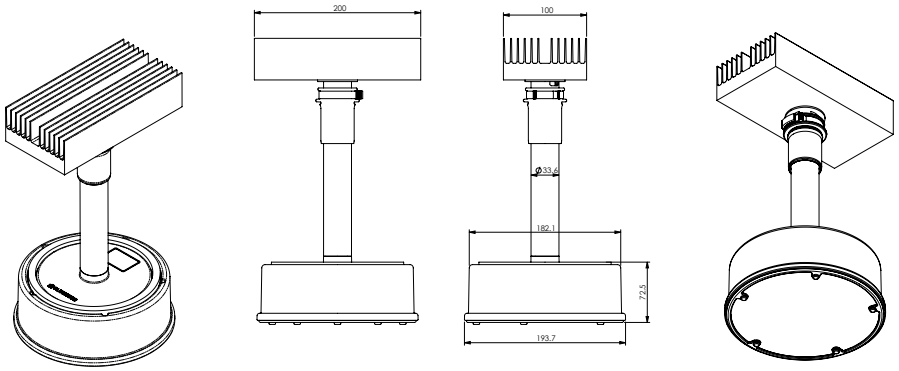
Technical Specifications

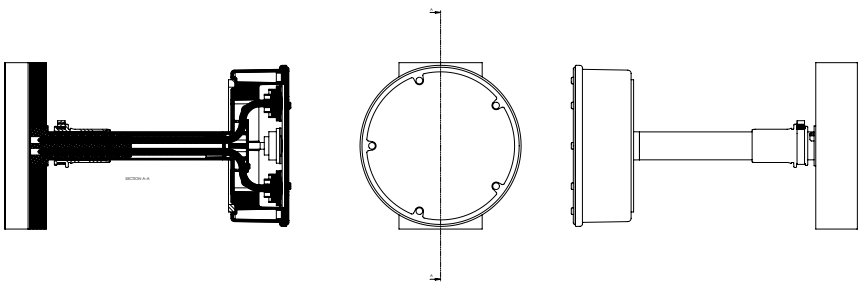
Product Version	Chil-LED™60 *The Coolest Light for Cold Places*	Chil-LED™90 *The Coolest Light for Cold Places*	Chil-LED™110 *The Coolest Light for Cold Places*
LED Power	52 Watts	75 Watts	105 Watts
System Power	56 Watts	80 Watts	110 Watts
Voltage Range	200-305VAC	200-305VAC	200-305VAC
Power Factor	95	95	95
Drive Current	350mA	500mA	700mA
LED Initial Output	7452Lm	9888Lm	12940Lm
Maintained Lumens	6819Lm	9048Lm	11840Lm
CCT	5000	5000	5000
CRI	80	80	80
Beam Angle	26° / 50° / 80° / 100°	26° / 50° / 80° / 100°	26° / 50° / 80° / 100°°
Weight	3.10KG	3.15KG	3.15KG
Driver Qty	1	1	1
Driver Efficiency	90%	90%	90%
Dimming	Option (0-10V, PWM, DALI	Option (0-10V, PWM, DALI	Option (0-10V, PWM, DALI
Integrated Emergency	Optional 3hr/Self Test/DALI	Optional 3hr/Self Test/DALI	Optional 3hr/Self Test/DALI
Heat Pipe Capacity	60 Watts	60 Watts	60 Watts
Mounting Cutout Dia	40mm	40mm	40mm
Max Insulation Thickness	200mm	200mm	200mm
Min Insulation Thickness	50mm	50mm	50mm

DALI Dimming, Analogue Dimming and Wireless Emergency Options (With 3hr Self Test on the Emergency)

Multi-Perspective Scaled Chil-LED™ Line Drawings

'The Coolest Light for Cold Places'





Scan here for more Chil-LED™ information, installation instructions, videos, Olivewood's full product range and services

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