

#### Efficiency

- Designed and optimised exclusively for use in insulated envelope chilled and frozen environments
- Huge energy savings over 75% when compared with Metal Halide
- Low energy High performance light output
- Wide choice of beam angles available to optimise use of available light
- Almost zero heat gain in the cold area, reducing refrigeration costs
- Save energy, save money

Olivewood Chil-LED<sup>™</sup> is the only lighting system that is exclusively designed for use in refrigerated environments. Chil-LED<sup>™</sup> is unique in that the compact, lightweight LED light source is the only part of the system that is actually inside the cold area. All of the other components - the electronic control systems, heat sink, mounting brackets - are situated outside the cold room, in the ambient environment. Chil-LED™ is the leading energy saving cold store lighting product on the market.

## Temperature Controlled Area Light







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

### Design

- Low profile and small size reduces intrusion and ceiling clutter
- Smooth, simple form, easy to clean and prevents dirt build-up
- Polycarbonate construction for light weight and durability
- Save energy, save money

Chil-LED<sup>™</sup> overcomes the traditional conflict between good lighting and efficient refrigeration in cold rooms. Lights are sources of heat and, in cold rooms, heat gain from lighting is a costly problem. Maintaining a refrigerated environment is an energy-intensive operation. The air conditioning equipment uses power as it works to remove heat. LEDs (Light Emitting Diodes) are exceptionally efficient light sources. However 70% of the energy that they consume is lost as waste heat. In ordinary lights, this unwanted heat by-product is radiated into the cold room. Olivewood Chil-LED<sup>™</sup> uses an advanced heat transit system, known as a heat pipe, to extract the heat from the light at source. It is then redirected and transported through the insulated envelope ceiling, and dissipated outside the cold store.







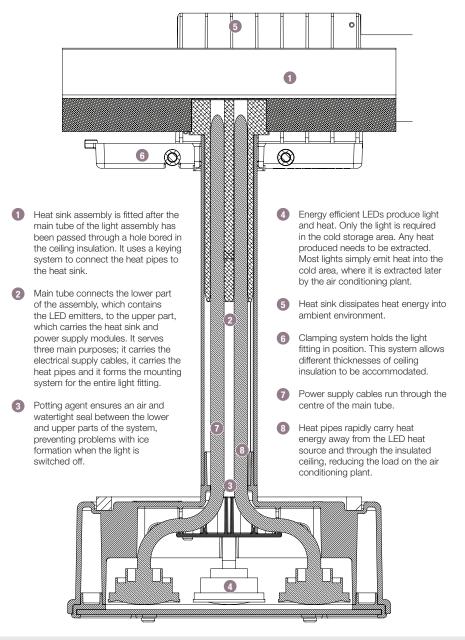
Chil-**LED**<sup>™</sup> is far superior in it's design and application. **Olivewood** has made Chil-**LED**<sup>™</sup> the first choice when it comes to replacing increasingly obsolete lighting systems within cold places.



Chil-**LED**™

Traditional Low Bay

#### Design Features



Efficiency Design Installation Reliability Olivewood Technology, Unit S1, Mendip Business Park,

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#### Installation

- Simple, fast installation
- Single penetration through insulation for wiring, mounting bracket and heat evacuation
- All connections and controls are outside the insulated envelope, for easy access and improved reliability
- Save energy, save money

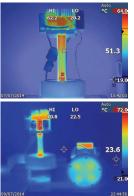
Cold room designers insist on maintaining the integrity of the insulated walls and ceiling panels of the cold room. Every hole through a panel needs to be completely sealed to prevent warm, moist air from entering the temperature controlled area, creating problems with condensation and icing. Most lights have multiple mounting points and a separate cable entry point - all of which require holes in the insulation to be drilled, filled and sealed. The unique Olivewood Chil-LED<sup>™</sup> design combines the mounting bracket, cable entry and heat extraction system in one unit, which requires only a single mounting hole. This design reduces installation costs and ensures the integrity of the insulated panel.

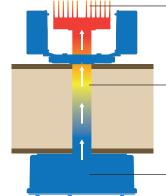






#### Temperature and Heat Dissipation





The heat energy is then dissipated into the ambient air above the insulated ceiling panel.

The heat energy produced by the LED chips is extracted at source and carried up through heat pipes, to the heat sink.

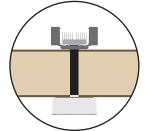
The lighting unit remains cold inside the cold area.

#### Installation Options

Chil-**LED**<sup>™</sup> can be fitted to varying thicknesses of insulated envelope chilled and frozen environments, up to a ceiling panel depth of 200mm.



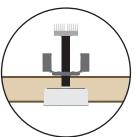
Flush Fitting- thin ceiling insulation-low profile.



Flush Fitting- thick ceiling insulationlow profile.



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**Recessed Fitting**- thin ceiling insulationmaximises use of space.



**Recessed Fitting**- thick ceiling insulationmaximises use of space.

# Reliability

- Latest generation LED chips and lenses
- Designed and assembled in the UK
- 5 Year Extended Warranty
- Save energy, save money

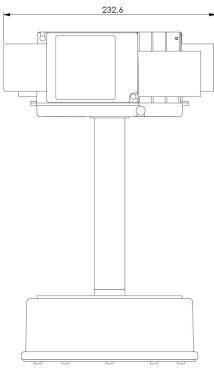
Chil-LED<sup>™</sup> is an ultra-low profile design, reducing ceiling clutter, maximising usable space and avoiding the possibility of impact from fork lift trucks. In cases where ceiling clearance is very tight, Chil-LED™ can even be recessed into the insulated panel, creating a flush, level surface. Olivewood Chil-LED<sup>™</sup> is a unique, bespoke and innovative lighting system that offers a wide spectrum of features and benefits. It is unrivalled in its efficiency, performance, practicality, quality and reliability. Chil-LED™ provides maximum immediate and long term financial savings with excellent returns on investment.

# Technical Specifications

Ø33.6

182.1

193.7



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	48 Watts	72 Watts	105 Watts
System Power	63 Watts	87 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
Intergrated 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

72.5

Dali dimming, analogue dimming and wireless emergency options (with 3hr self test on the emergency).

For further engery saving information and services see our website: http://olivewoodtech.co.uk











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