

Jake Dyson Products

CSYS

37+Years LED Life



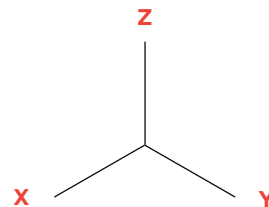
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WHAT IS THE CSYS?

Jake Dyson Studio has spent the last 6 years developing various manufactured motion mechanics and has now put its know-how and R&D into its latest product, the CSYS LED task light, fulfilling a desire to challenge the convention of mechanical movement and positioning of existing task lights.

The CSYS LED task light is a dimmable LED light which marries the latest technology with sleek design and innovative positioning. Its refined thermal management and electronics systems produce a bright warm white colour with astonishing efficiency and durability.



'A CSYS IS THE SYSTEM OF COORDINATES THAT DEFINES AN OBJECT'S POSITION IN THE X, Y AND Z AXIS'



FLEXIBILITY & PRECISION

Inspired by a construction crane and drawing board the CSYS LED task light can be adjusted effortlessly in three axes to allow exact, stable positioning. Setting the LED head close to the working area allows focussed illumination, while raising it creates a wide, even pool of light. The mechanics are designed with precision to ensure a smooth accurate movement and positioning.





LIGHT DISTRIBUTION

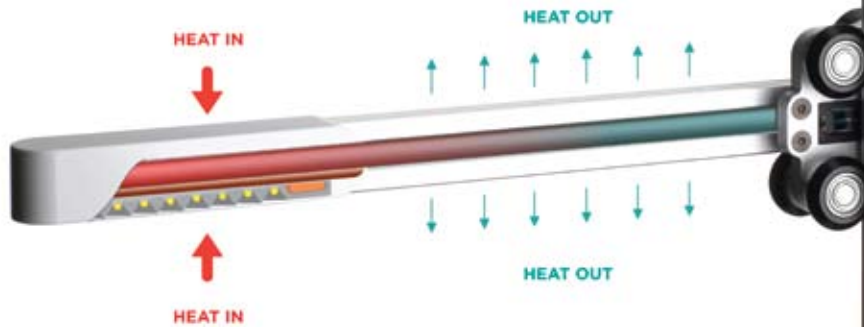
The CSYS LED task light produces a bright, clear and even pool of warm white light. The spread and intensity of light can be controlled within your working area. Unwanted spill is eliminated and its optical design minimises hot-spots and the opportunity for glare.

In addition, the refined and compact structure of the light source means that it is not obtrusive when positioned in your line of sight.



BRIGHT LED LIGHT

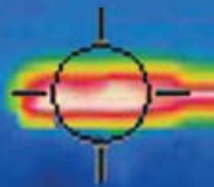
Constant acceleration in LED development poses a real challenge for manufactures to keep up and best implement these new technologies. The fully dimmable CSYS LED task light is designed around the latest generation of high power warm white LEDs.



HEAT PIPE TECHNOLOGY

Heat pipe technology was developed for use in satellites and is now most commonly used to help cool microprocessors. The primary role of a heat pipe is to conduct heat away from its source. The heat pipe within the CSYS LED task light conducts heat away from the LEDs and distributes it evenly over the length of the heat sink. It uses no external pumps or extra energy to cool the LEDs and is instrumental in keeping the CSYS task light running brightly and efficiently for 37+ years.

53.4°C



24



55

5

Effective temperature control is essential to prevent early life failure as it is proven that excessive temperature reduces the performance of LEDs leading to a shorter life span, reduced efficiency and disturbance in colour. The cooler the LED, the longer the life.

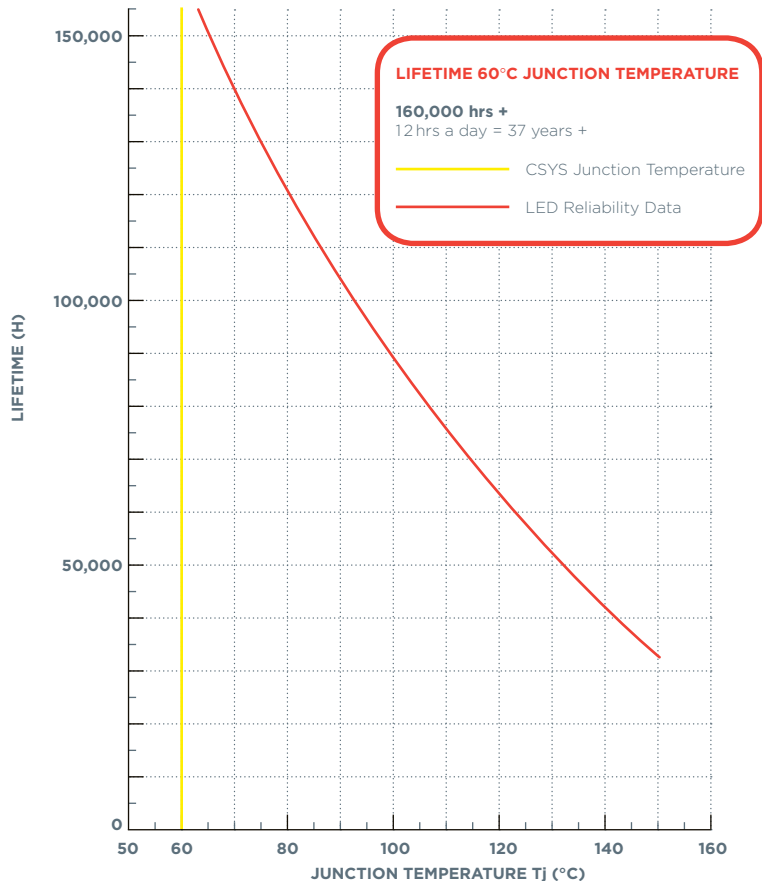
To achieve maximum efficiency a heat sink must utilise the entire surface area to discharge heat.

Incorporating the heat sink within the CSYS as a structural element of the product utilises its entire surface area to discharge heat evenly. This is shown in the thermal image.

The LEDs in the CSYS LED task light are run at just 30 degrees above room temperature to give a 160,000+ hours life and stable performance. The CSYS task light is 5 times more energy efficient than a comparable halogen bulb.

LED SUSTAINABILITY

6



Please refer to the graph on the opposite page which outlines the projected life of the LED chips within the CSYS task light. These figures are achieved thanks to the refined and efficient heat management of the heat sink within the CSYS task light.

The LED manufacturer predicts 100,000 hours LED life at a junction temperature of 100°C. Through effective cooling, the CSYS maintains a much lower temperature, further increasing life. The chances are the LEDs will last longer than you do!

CSYS LED LIFE GRAPH

CSYS



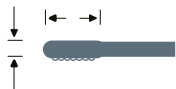
No Replacement
160,000 hrs+



No Mercury



Directional Light Source
Even Warm Light With
Good Colour Rendition



Slim / Compact
Efficient Design

LIFE

DISPOSAL

LIGHT

DESIGN

CFL



Replacement \$\$\$\$
5,000 - 10,000hours



Fragile
Hazardous Substance
Mercury
Landfill



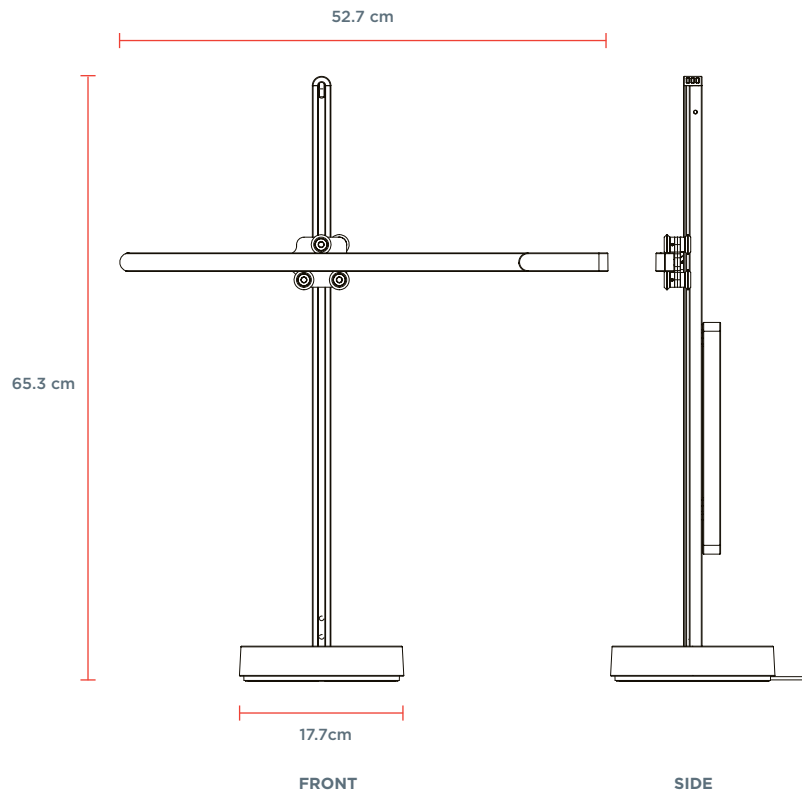
Non Directional Light Source
Poor quality



Large
Less Attractive Design

There is no doubt that LED technology will be the future of lighting. It is true to say that CFL technology is an improvement on existing incandescent and halogen lighting in some applications. However, CFLs have many associated problems, some of which can be seen on the opposite page, where four of the main advantages of LEDs are highlighted.

CSYS VS CFL TECHNOLOGY



FEATURES

Touch Sensitive Dimming
 Light Level Memory
 Safe 12V Supply
 Materials: Aluminium | Copper | Polycarbonate Plastic

TECHNICAL SPECIFICATION:

LED Power (W)	8.8W
Luminous Efficiency (lm/W)	56lm/W
Colour Temp (K)	2700K
CRI	82
Beam Angle	90°
IP Rating	IP20
Touch Switch	Yes
Touch Dim	Yes

CSYS TECHNICAL SPECIFICATION



For further information please visit
www.jakedyson.com

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