

# Cu-Beam™ suspended lights

Heat pipe technology to cool LEDs.

Powerful light, precisely where you need it.

# **Jake Dyson Light**

Manufactured by **dyson** 

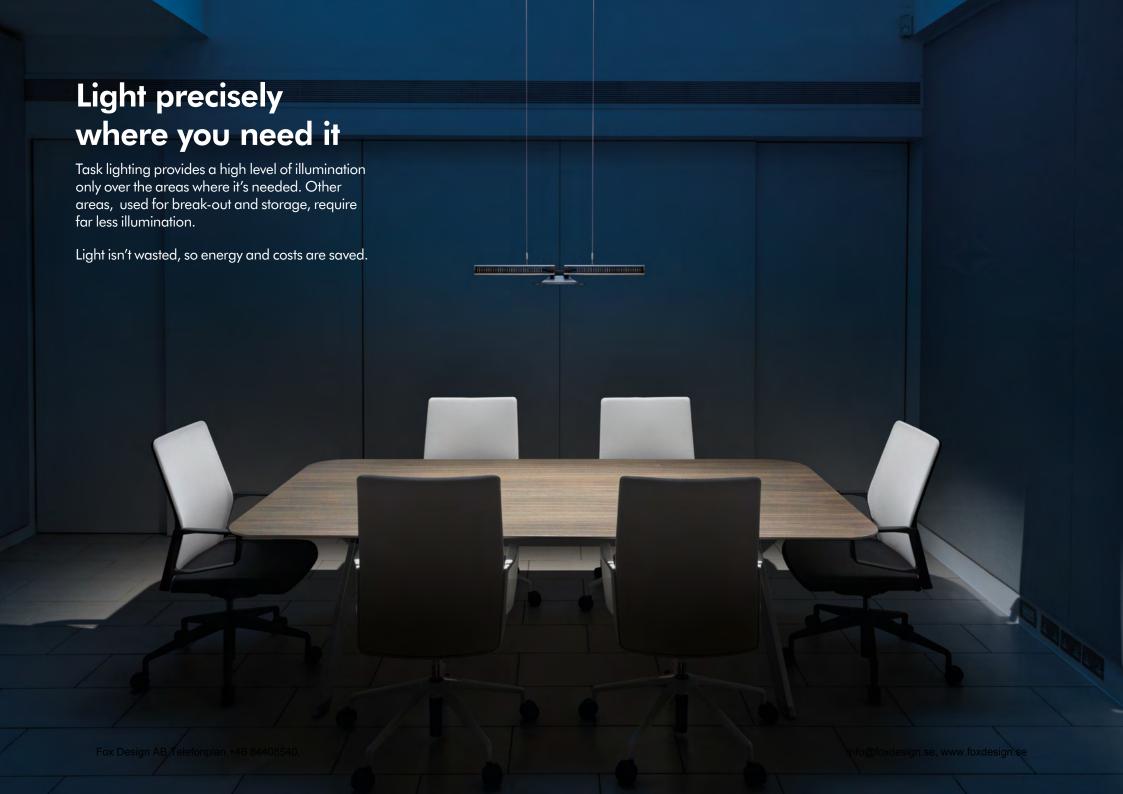


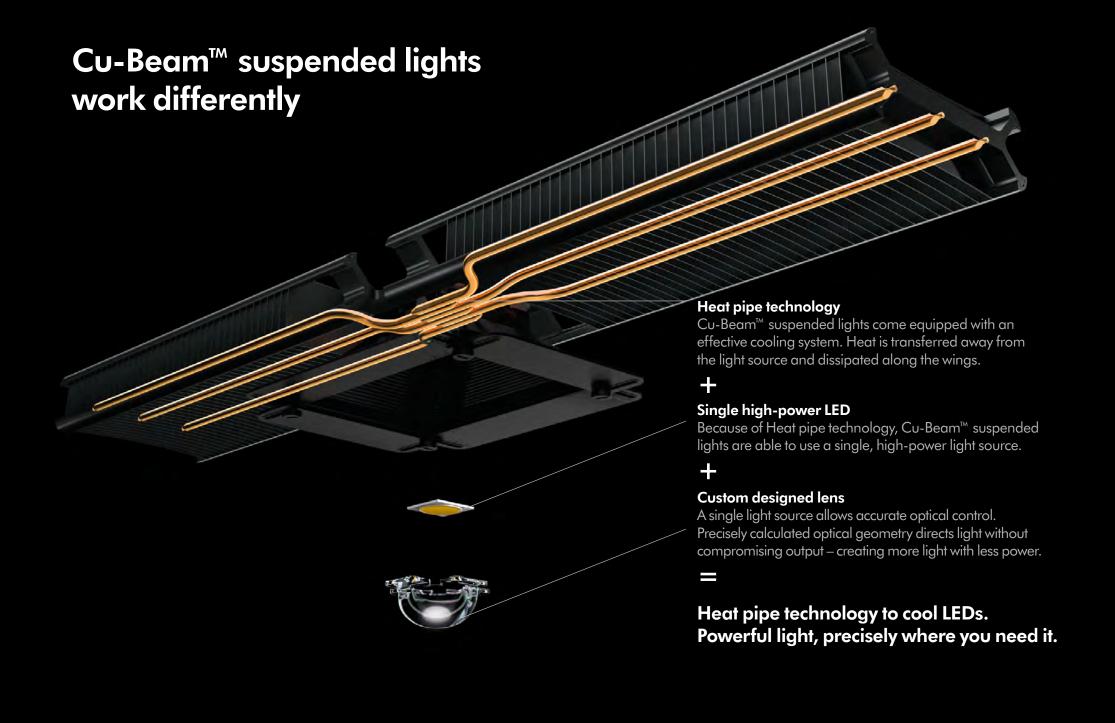
"Other designers have made attempts to cool LEDs. But it's not enough. They're ignoring the vast potential of this technology.

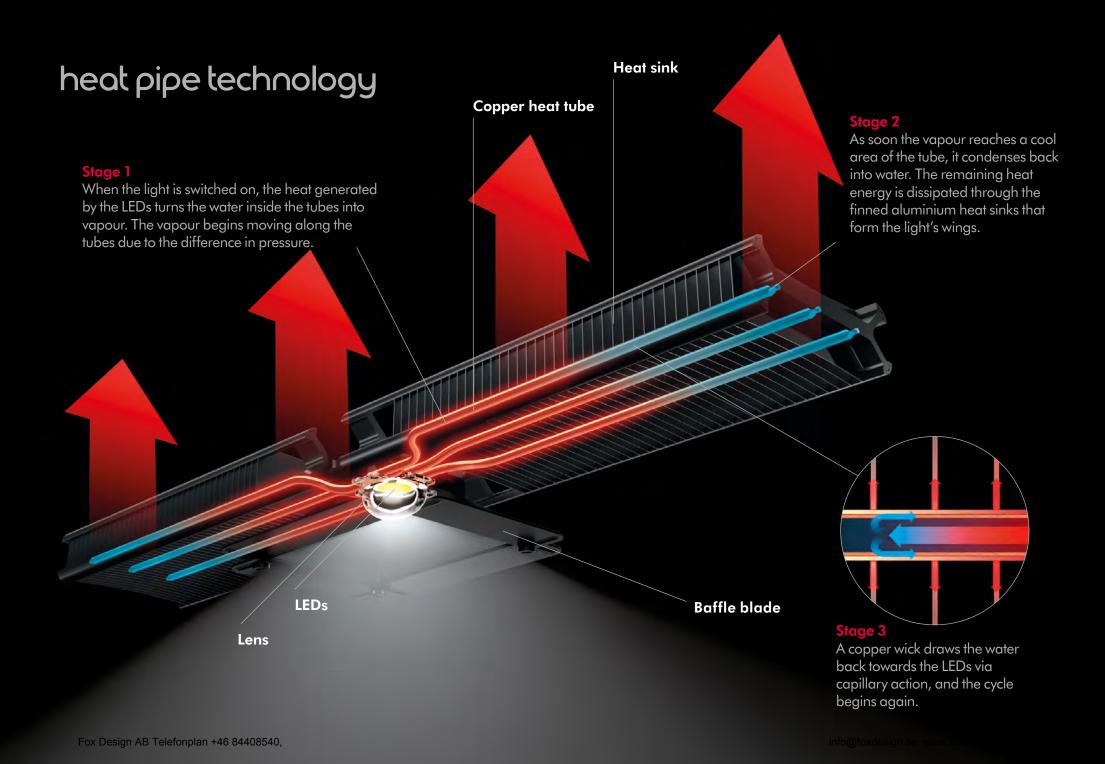
We knew there had to be a better way."

Jake Dyson













# Cu-Beam™ down-light

Focused lighting for task surfaces such as meeting tables, reception desks, office and dining areas.

## **Powerful light**

Cu-Beam<sup>™</sup> suspended lights use Heat pipe technology to cool a single high-power LED.

### Precisely where you need it

A custom-engineered lens, combined with adjustable trim blades, projects controlled light exactly where it's needed.

## Stays bright for 180,000 hours\*

Heat pipe technology draws heat away from the LED, maintain colour and brightness over 180,000 hours\*.

## Surpasses the European Office Lighting standard

Just one fixture projects 517lx per 1m<sup>2</sup>.

## Fewer fixtures: more light

A Cu-Beam<sup>™</sup> down-light can sufficiently illuminate four desks – twice that of some conventional lights.

### Consistent colour across every fixture

With a CRI of 82 min and two-step binning, colour is kept consistent over all Cu-Beam™ suspended lights.

## **High efficacy**

The custom-engineered lens projects more light than conventional lenses. Combined with effective cooling, this means that each fixture runs at 88lm/W.

## Lightweight

Weighing just 1.6kg, Cu-Beam<sup>™</sup> suspended lights can be easily suspended from plasterboard ceilings.

### 5 year guarantee

# Cu-Beam™up-light

## **Ambient lighting for open spaces**

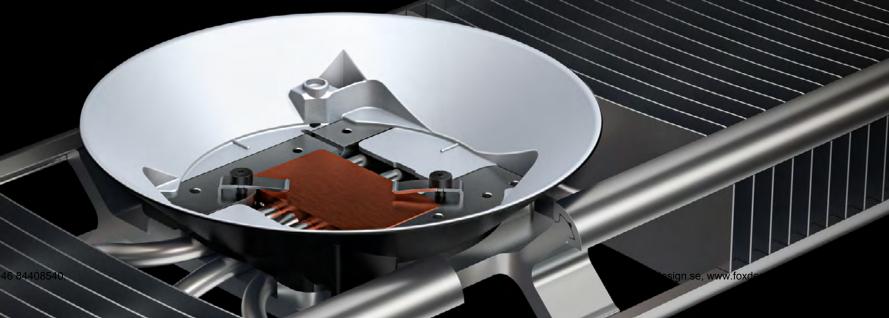
Cu-Beam™ up-light make indirect lighting possible. Using a custom-engineered bubble optic lens, they cast a wide pool of light across the ceiling. This eliminates hot spots and allows a short drop height, creating soft, ambient light through the room.

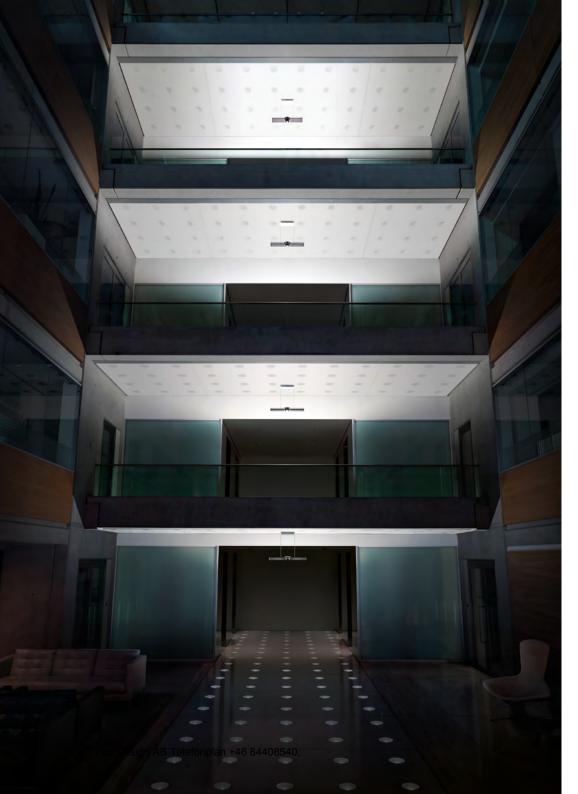


Projects an ultra-wide beam of light towards the ceiling, creating ambient light. throughout the room.

## Single high-power LED

A COB LED provides a fixture light output of 7750 lm and LED output of 8600 lm.





# Cu-Beam™up-light

Ambient lighting for open spaces like atriums, foyers, circulation areas and general office lighting.

## **Powerful light**

Cu-Beam™ lights use Heat pipe technology to cool a single high-power LED.

## Precisely where you need it

A custom-engineered bubble optic lens casts even, ambient light throughout the room.

## Stays bright for 180,000 hours\*

Heat pipe technology draws heat away from the LED, maintain colour and brightness over 180,000 hours\*.

## Fewer fixtures: more light

Unlike others, a Cu-Beam™ up-light casts a wide pool of light across the ceiling. No hot spots.

## **Short drop height**

Because of their wide projection, Cu-Beam<sup>™</sup> up-light have a short drop height that's ideal for low ceilings.

## Consistent colour across every fixture

With a CRI of 82 min and two-step binning, colour is kept consistent over all Cu-Beam™ suspended lights.

## **High efficacy**

The custom-engineered lens projects more light than conventional lenses. Combined with effective cooling, this means that each fixture runs at 92lm/W.

## Lightweight

Weighing just 1.6kg, Cu-Beam<sup>™</sup> suspended lights can be easily suspended from plasterboard ceilings.

## 5 year guarantee

## Cu-Beam™ down-light

Cu-Beam to suspended lights provide powerful light, precisely where you need it. Their Heat pipe technology creates a highly effective cooling system, meaning they can use a single high-power, high-efficiency COB LED. This single light source, combined with a custom-designed PMMA lens, delivers optically efficient, precisely controlled illumination.

The cooling system also prolongs the life of the light, ensuring long-lasting performance and colour stability. A customised long-life DALI driver, with additional heatsinks and high-grade capacitors, is engineered to last as long as the LED.

#### To specify, state:

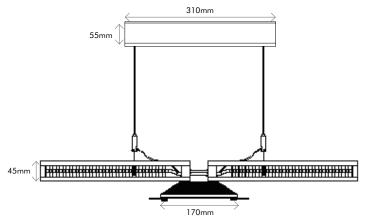
Sleek suspended luminaire with single high efficiency chip on board LED CRI 80min 2 step binning - cooled via sintered copper heat pipes. Unique rectangular distribution optic with adjustable trim blades for optimum framing & glare control.

Power over suspension cable DALI Driver, Jake Dyson Light

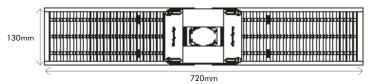


#### FRONT ELEVATION

Cu-Beam™ down–light order no.



#### **UNDER ELEVATION**



#### SIDE ELEVATION



#### TRIM BLADES



#### Installation

Pendant. System complete with power supply base and L = 4000mm Cable

Mounting: Ceiling pendant

Environment: Indoor

Complies with: IEC/EN 62471 (Including national deviations)
IEC/EN 60598-1 (Including national deviations)
IEC/EN 60598-2-1 (Including national deviations)
IEC 61347-1, IEC 61347-2-13, IEC 62031,
UL 1598, SAC GB 7000-1, SAC GB 7000-201,
SAC GB 7000-202, M.I.T.I - Appendix 8 (1993),
JIS C8105-1, JIS C8105-2-4

#### Electrical

Input voltage / Frequency: 100-240 V, 50/60 Hz

Control signal voltage: 0-16 V (0-16 V DC DALI)

Rated power: 55W

Standby power consumption: 0.5W

Driver / Power unit / Transformer: PSD (Power supply unit with DALI interface) Universal

ALI Inieriace) Universi

Driver included: Yes

Embeded control: No

Dimmable: DALI

Mimimum dim level: 10%

Suitable for random switching: Yes (relate to presence / movement detection and daylight harvesting)

Wiring: Product complete with electronic components

Glow-wire test: 850/5 (Temperature 850°C, duration 5s)

#### Optical

Light source: Chip on board LED

Number of light source: 1

Light source replaceable: No

Fixture light output: 4800lm

LED output: 6350lm

Luminous efficacy: 88lm/w

Light output ratio: 0.75

Illuminance Eav: 517 lux across 3200mm x 1600mm surface (at 1.3m height above task surface)

LED life time: 180,000hrs L70

Colour temperature: 3000K / 4000K (custom option on request)

CRI: 80min

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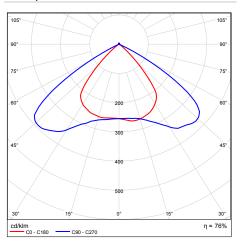
Beam angle: 111° x 78°

IP rating: Indoor use only

MacAdam steps: 2 step binning

Operating temperature range: 0°C - 40°C or Application conditions, Average ambient temperature T25 (+25°C)

#### Polar plot



#### Operation

DALI dimming

#### Construction

Housing materials: Aluminium / Copper / Polycarbonate

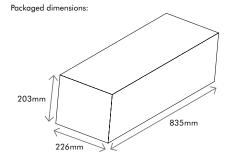
Optical lens materials: PMMA (Acrylic)

#### Logistics

Net (fixture) weight: 2.9kg

Luminaire weight: 1.6kg

Packaged weight: 4.8kg



#### Standard guarantee

5 years

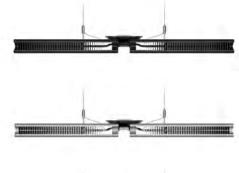
## Cu-Beam™up-light

Cu-Beam™ suspended lights provide powerful light, precisely where you need it. Their Heat pipe technology creates a highly effective cooling system, meaning they can use a single high-power, high-efficiency COB LED. This single light source, combined with a custom-designed PMMA lens, delivers optically efficient, precisely controlled illumination.

The cooling system also prolongs the life of the light, ensuring long-lasting performance and colour stability. A customised long-life DALI driver, with additional heatsinks and high-grade capacitors, is engineered to last as long as the LED.

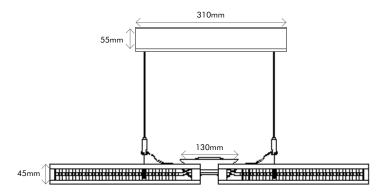


Sleek suspended luminaire with single high efficiency chip on board LED CRI 80min 2 step binning - cooled via sintered copper heat pipes. Unique toroidal optic with ultra-wide 160° distribution for shallow mounting height. Power over suspension cable DALI Driver, Jake Dyson Light Cu-Beam™ up–light order no.



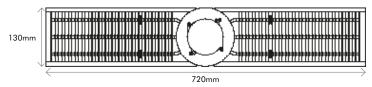


FRONT ELEVATION SIDE ELEVATION





#### **TOP ELEVATION**



#### Installation

Pendant. System complete with power supply base and L = 4000mm Cable

Mounting: Ceiling pendant

Environment: Indoor

Complies with: IEC/EN 62471 (Including national deviations)
IEC/EN 60598-1 (Including national deviations)
IEC/EN 60598-2-1 (Including national deviations)
IEC 61347-1, IEC 61347-2-13, IEC 62031,
UL 1598, SAC GB 7000-1, SAC GB 7000-201,
SAC GB 7000-202, M.I.T.I - Appendix 8 (1993),
JIS C8105-1, JIS C8105-2-4

#### Electrical

Input voltage / Frequency: 100-240 V, 50/60 Hz

Control signal voltage: 0-16 V (0-16 V DC DALI)

Rated power: 85W

Standby power consumption: 0.5W

Driver / Power unit / Transformer: PSD (Power supply unit with

DALI interface) Universal

Driver included: Yes

Embeded control: No

Dimmable: DALI

Mimimum dim level: 10%

Suitable for random switching: Yes (relate to presence / movement detection and daylight harvesting)

Wiring: Product complete with electronic components

Glow-wire test: 850/5 (Temperature 850°C, duration 5s)

#### Optical

Light source: Chip on board LED

Number of light source: 1

Light source replaceable: No

Fixture light output: 7750lm

LED output: 8600lm

Luminous efficacy: 92lm/W

Light output ratio: 0.90

LED life time: 180,000hrs L70

Colour temperature: 3000K / 4000K (custom option on request)

CRI: 80min

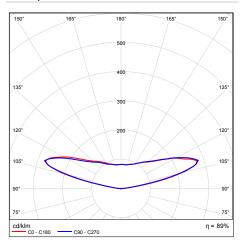
Beam angle: 160°

IP rating: Indoor use only

MacAdam steps: 2 step binning

Operating temperature range: 0°C - 40°C or Application conditions, Average ambient temperature T25 (+25°C)

#### Polar plot



#### Operation

DALI dimming

#### Construction

Housing materials: Aluminium / Copper / Polycarbonate

Optical lens materials: PMMA (Acrylic)

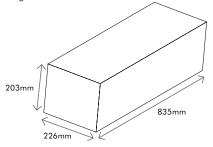
#### Logistics

Net (fixture) weight: 2.9kg

Luminaire weight: 1.6kg

Packaged weight: 4.8kg

Packaged dimensions:



#### Standard guarantee

5 years

# Thank you.

For further information on Cu-Beam<sup>™</sup> suspended lights please don't hesitate to get in touch.

## Paul Gregory, Sales Director

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Email: lightingsales@dyson.com



Manufactured by

dyson