Whitecroft lighting

Whitecroft Vitality

Cascade Flex The Change Starts Here

Sustainability is about the balanced delivery of Social, Economic and Environmental performance.

Beginning our Circular journey

Circularity is a model of sustainability that is about keeping products at their **highest utility through life** and then their **regeneration and recovery**

Matt Paskin
Design Director

Whitecroft Vitality \\ Cascade Flex

Introducing Whitecroft Vitality

Whitecroft Vitality is a new approach to circularity.

It's about creating long term, interconnected partnerships between the supply chain, manufacturer and customer around the product.

Design and Manufacture

This begins with the development of high efficacy products that can be remotely monitored through life and are modular, upgradeable and designed for disassembly. Future regeneration and recovery is supported through material passports for component and material health transparency. Then the supply chain, production facility and product have to gain independent certification such as **Cradle to Cradle Certified™.**

Through Life Utility

A truly circular solution needs to be monitored and upgraded through life to deliver its highest utility and energy saving potential. DALI and integrated controls such as Organic Response® enable Whitecroft to support you with annual Whitecroft Vitality maintenance checks to monitor the installation throughout its life and keep products at their highest utility.

Regeneration & Recovery

Whitecroft Vitality cycles, which can be agreed at the point of installation, allow for the future upgrade and replacement of your lighting solution without the need to fully replace the luminaire. Keeping the product in the economy for additional lifecycles greatly reduces the carbon footprint of the installation and lowers return on investment triggers for future energy savings.

Whitecroft Vitality is a concept of perpetual cycles and reuse but when needed we can support with the re-sale, recovery or ultimately the responsible recycling of the product within WEEE regulations.

CERTIFIED
cradletocradle
BRONZE

The **Cradle to Cradle Certified™** Vision.

A world where safe materials and products are designed and manufactured in a prosperous, circular economy to maximise health and wellbeing for people and planet.

The Cradle to Cradle Certified™ Approach

Cradle to Cradle Certified™ is a globally recognised measure of safer, more sustainable products made for the circular economy.

To achieve certification products are independently assessed for environmental and social performance against five key categories.

The standard encourages continuous improvement over time by awarding certification on the basis of ascending levels of achievement and requiring certification renewal every two years.

Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.

5 Key Categories

Material Health
This category helps to ensure that products are made using materials and chemicals that are as safe as possible for humans and our environment. This is done through a process of inventorying, assessing and optimising material chemistries.

Material Reutilisation
The material reutilisation category aims to eliminate the concept of waste by helping to ensure products remain in perpetual cycles of use and reuse from one product use cycle to the next.

Renewable Energy
The renewable energy & carbon management category helps to ensure products are manufactured using renewable energy so that the impact of climate changing greenhouse gases due to the manufacturing of the product is reduced or eliminated.

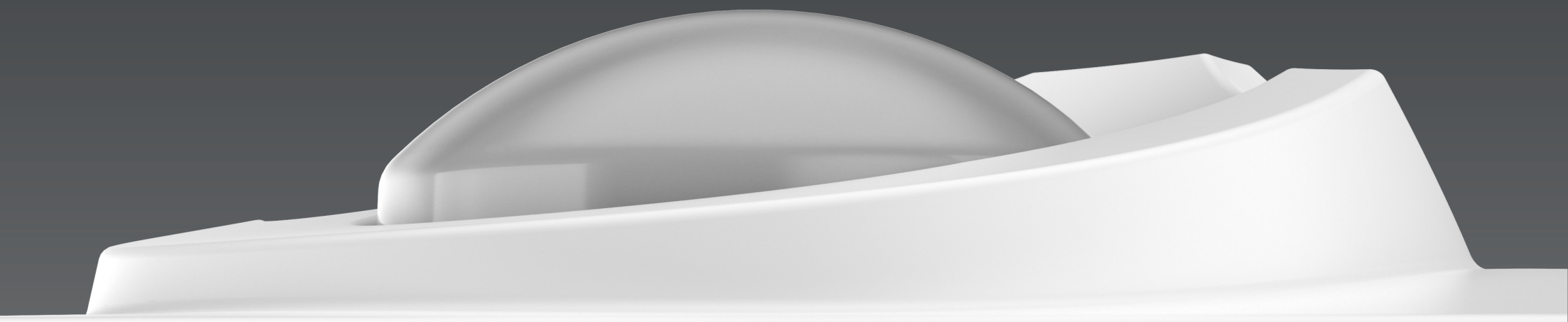
Water Stewardship
The water stewardship category helps ensure water is recognised as a valuable resource, watersheds are protected, and clean water is available to people and all other organisms.

Social Fairness
The aim of this category is to design business operations that honour all people and natural systems affected by the manufacture of a product.

The use of **Organic Response®** enables an installation to be remotely monitored throughout its life, supporting through life utility.

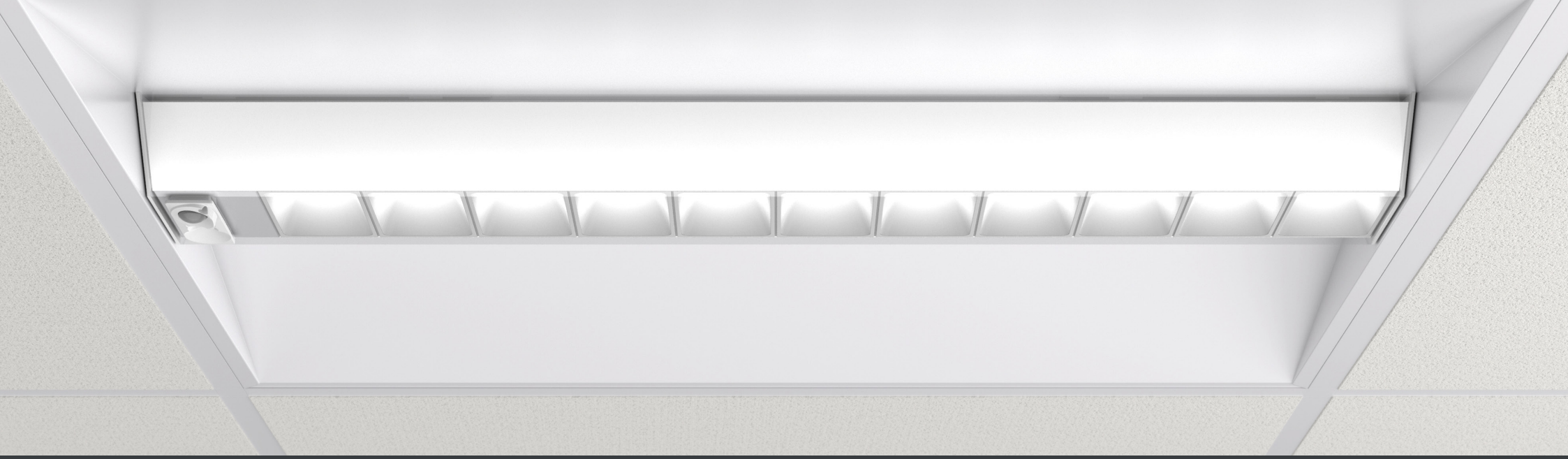
Stay Connected

Organic Response® is a wireless plug and play lighting control system. With Organic Response® you can easily configure and reconfigure spaces to suit your needs. Fitted with an integral sensor each luminaire communicates with its neighbours, transmitting and receiving information giving it the ability to make more informed lighting decisions.



Whitecroft Vitality allows me to make circular choices for my customers today, its tangible, a real solution. If you had the choice what would you choose?

Charlotte Croft
Lighting Applications Manager



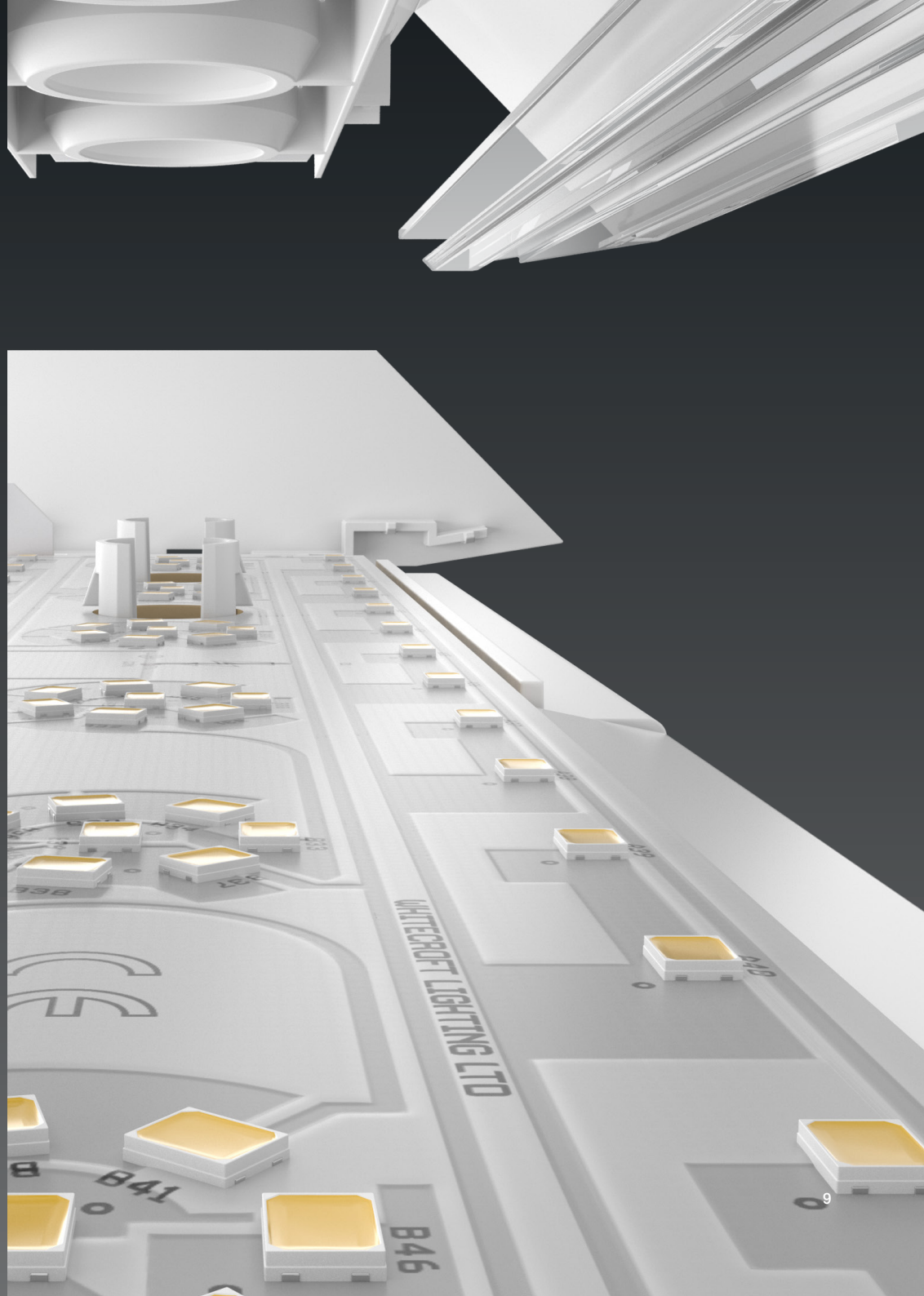
One of the world's first luminaires Cradle to Cradle Certified™ Bronze

Cascade Flex has been designed from a circular perspective with thought given to not only the materials and manufacturing process but to the products through life utility and continued upgradability in future Whitecroft Vitality cycles.

The signature centre optic has been rejuvenated and futureproofed taking the form of a completely removable, reusable, replaceable and recyclable cartridge. Cascade Flex is manufactured using responsibly sourced materials and supply chains and has received Cradle to Cradle certification at the Bronze level.

Cascade Flex
combines circular principles and exceptional lighting performance with a distinctive aesthetic.

Supplied with a DALI driver and optional Organic Response® lighting controls Cascade Flex will enhance energy savings and support user well-being by creating engaging and comfortable environments. The pod optic combined with the clustered LED light engine helps to create comfortably lit spaces. The pods are encased in a TP(a) rated diffuser making the luminaire easy to clean and IP44 rated.



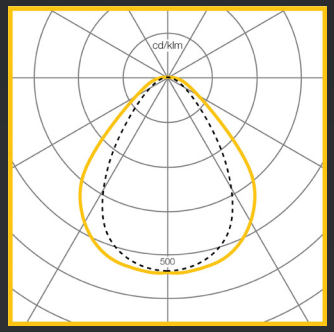
Cascade Flex
unites high quality
lighting and circularity.

Designed to perform

Outputs and Efficiency

A combination of the latest high efficacy e-light LEDs, superior thermal management and the pod optic see Cascade Flex achieve nominal lumen outputs ranging from 3300 up to 4100 lumens and efficacies in excess of 130ll/cw.

Polar Curve



Cascade Flex

Cradle to Cradle Certified™ Bronze

Material Health	Bronze
Material Reutilisation	Gold
Renewable Energy	Silver
Water Stewardship	Bronze
Social Fairness	Silver
Overall Certification Level	Bronze

Distinctive Optical Design

The distinctive central optic and range of lumen outputs deliver both visual comfort and efficacy. The optic directs 80% of the output onto the task while the remaining 20% serves to illuminate the bevelled ceiling canopy. This results in an intermediate brightness zone which creates a contrasting field between the optic and the ceiling plane, adding visual interest and overall comfort.

Emergency Lighting

Cascade Flex emergency luminaires utilise Lithium Iron Phosphate batteries, a safer, low toxicity alternative to Nickel Cadmium. Their stability and reliability can deliver benefits including reduced maintenance costs, longer lifetime and can be safely recycled at the end of their life. Furthermore, the use of Lithium Iron Phosphate batteries will reduce the parasitic load associated with emergency battery charging resulting in significant energy savings.

Analysis of a typical secondary school with 450 emergency lighting units

Ni-Cd
Annual Charge Energy Use

8693 kW/h

Lithium Iron Phosphate
Annual Charge Energy Use

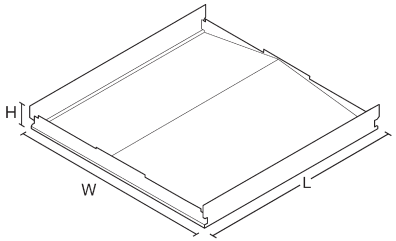
45%
Energy Saving

4882 kW/h

Cascade Flex offers a comprehensive range of products suitable for multiple ceiling types. For product information including ceiling integration, **Cradle to Cradle Certified™ Bronze** certification and technical details please visit our website.

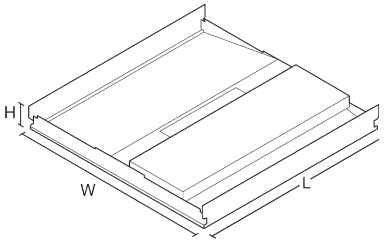
Type	Optic	Colour Temperature		Colour Rendition		Control	Nominal Output		Driver	Emergency Lighting		Ceiling		
	Pod	3000k	4000k	Ra80	Ra90	Organic Response	3300lm	4100lm	DALI	EM	COMEPS	Exposed T	Spring T	SAS330
600mm x 600mm Pod	•	•	•	•	•	•	•	•	•	•	•	•	•	
1200mm x 300mm Pod	•	•	•	•	•	•	•	•	•	•	•			•

600 x 600

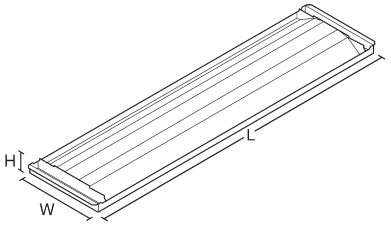


	Exposed Tee	Spring Tee
Length (mm)	584	599
Width (mm)	584	599
Height (mm)	69	83
Weight (kg)	4	4
Weight EM (kg)	5.5	5.5

600 x 600 c/w Emergency
and/or Organic Response®

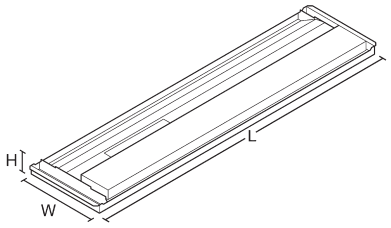


1200 x 300



	SAS 330
Length (mm)	1194
Width (mm)	297
Height (mm)	68
Weight (kg)	5.5
Weight EM (kg)	7.5

1200 x 300 c/w Emergency
and/or Organic Response®



UK Head Office
Whitecroft Lighting Ltd
Burlington Street
Ashton-Under-Lyne
Lancashire OL7 0AX

T +44 (0)161 330 6811
F +44 (0)161 331 5855
email@whitecroftlight.com

London Customer Centre
Whitecroft Lighting Ltd
102-108 Clerkenwell Road
London
EC1M 5SA

T +44 (0)161 330 6811
F +44 (0)161 331 5855

Rep. Ireland Office
Ireland Office
Fagerhult Ltd
F1 Calmount Park
Ballymount, Dublin 12
Ireland

T +353 (0)1 426 0200
F +353 (0)1 429 9606
info@fagerhult.ie
www.fagerhult.ie

Middle East Office
Fagerhult Middle East
P.O. Box 126287
Dubai
United Arab Emirates

T +971 (0)4 3297120
F +971 (0)4 3297130
info@fagerhult.ae
www.fagerhult.ae

Whitecroft lighting

A Fagerhult Group Company

MADE IN BRITAIN