

Whitecroft Vitality
The Change Starts Here

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

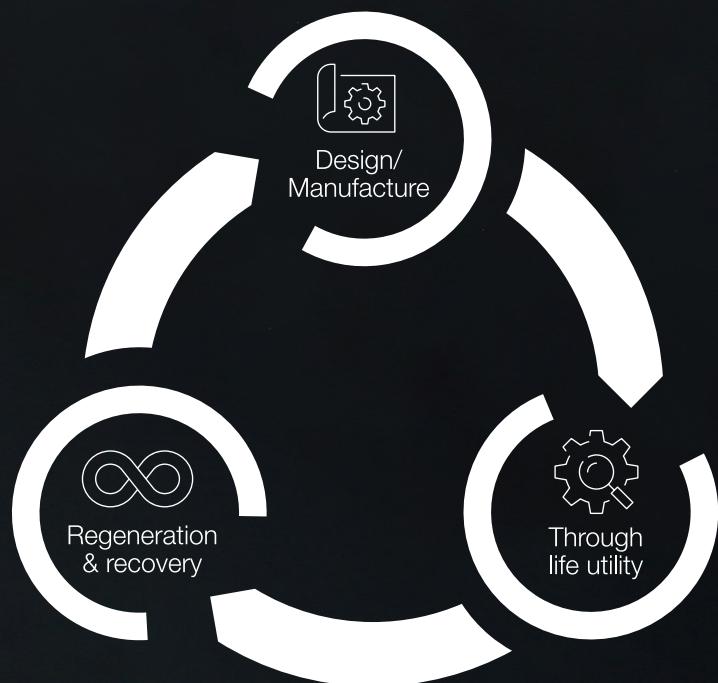
Beginning our Circular journey

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

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.



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.

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.

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.



We are designing products to last longer, deliver more and consume less. To meet the needs of not only the modern day but those of the future, no matter what it may hold.



Daniel Renforth
Business Development Manager



Stay Connected

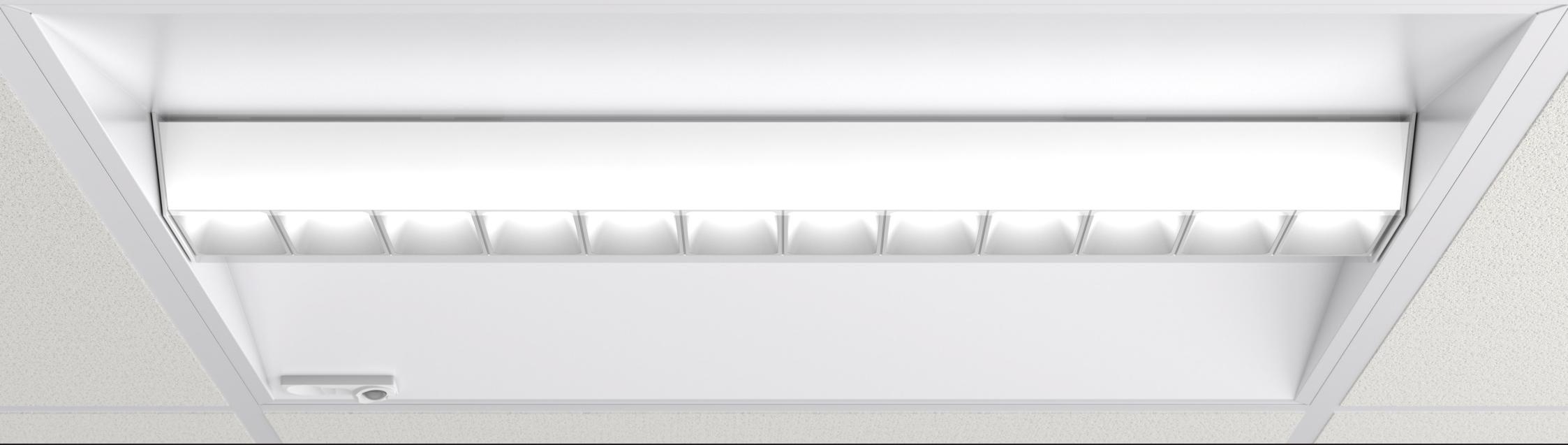
Whitecroft Vitality products feature integrated lighting controls including Organic Response® and Command 9 allowing not only for spaces to be easily configured and reconfigured but also luminaires to be remotely monitored. This functionality means the luminaires can be maintained and upgraded when necessary or desired, ensuring they remain at their highest utility throughout life.



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



Cascade Flex

Combining circular principles,
exceptional lighting performance and
a distinctive optic.

The signature optic has been rejuvenated and futureproofed taking the form of a completely removable, reusable replaceable and recyclable cartridge. 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.

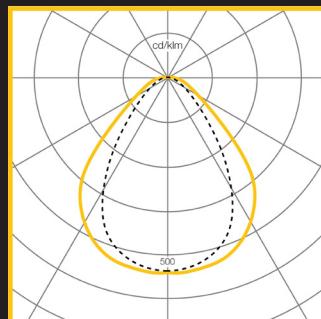
Cascade Flex
unites high quality
lighting and circularity.

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



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	Lithium Iron Phosphate
Annual Charge Energy Use	Annual Charge Energy Use
45%	Energy Saving

8693 kWh

4882 kWh

Cascade Flex

Cradle to Cradle Certified™ Bronze

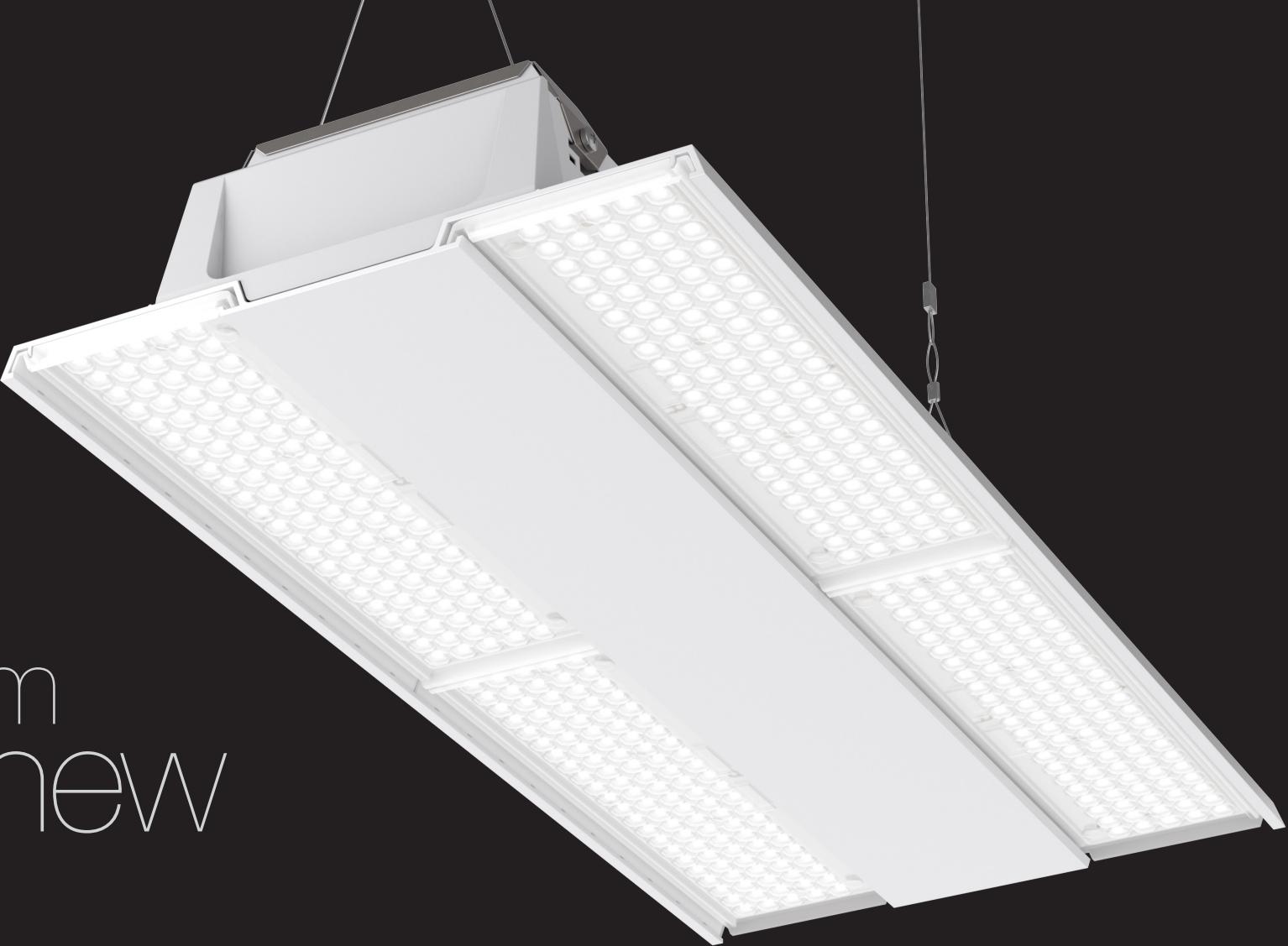
	Material Health	Bronze
	Material Reutilisation	Gold
	Renewable Energy	Silver
	Water Stewardship	Bronze
	Social Fairness	Silver
Overall Certification Level		Bronze

Flight

The freedom to renew

Flight gives you the ability to stay ahead of the game with minimal effort and expenditure. The removable light cartridge gives access to individual components enabling endless upgrades throughout the life of the product without the need to replace the entire luminaire.

This brings benefits including the ability to change the optics, replace the LEDs and drivers and upgrade or add controls. As a result the luminaire remains up to date, at its highest utility and becomes more valuable over time.

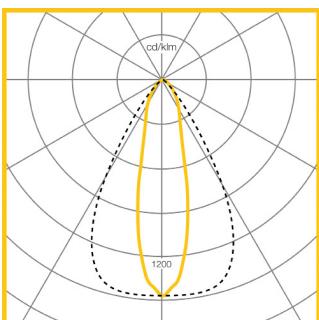


Flight and Flight Sport

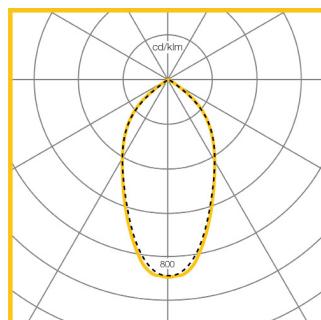
Cradle to Cradle Certified™ Bronze

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

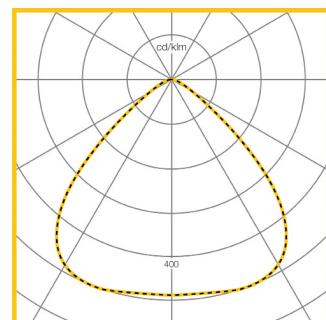
Polar Curves



Bisymmetric Narrow



Medium



Wide

Emergency Lighting

Flight integral emergency luminaires use Lithium Iron Phosphate (LiFePO₄) batteries as standard. Their stability and reliability can deliver benefits including reduced maintenance costs, longer lifetime and safe recycling at the end of their useful life. Furthermore, the parasitic load associated with battery charging is reduced, resulting in significant energy savings.

Energy saving when using
Lithium Iron Phosphate
compared to Nickel Cadmium

	Ni-Cd	Annual Charge Energy Use
	Lithium Iron Phosphate	Annual Charge Energy Use

45%
Energy Saving

Designed to perform

Ambient Temperatures

High or low ambient temperatures in manufacturing spaces can put stress on internal components and reduce both light output and life. Flight uses high quality components such as 100,000 hour industry specification drivers to ensure correct operation and the long life expected from a modern high bay luminaire. Installations in ambient temperatures between -20 to +40°C are possible using the Flight range.

Light Quality and Efficacy

Using high efficacy LEDs Flight achieves outputs ranging from 12,000 up to 42,000 lumens and efficacies up to 179 ll/cw. The high transmission lens optics have been designed specifically for the Flight range to ensure light is delivered to the task efficiently for optimum performance and user comfort.



A Fagerhult Group Company

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

