

cascade edge

with Organic Response®



Direct/indirect recessed
Hexaprism luminaire with
integral Organic Response®



Optics

- Twin cell Hexaprism output options:
 - LED 3500 lumens (46W)
 - 4 x 14W T5

Body

- Steel body finished white
- For 600 x 600mm grid ceilings
- One piece front frame and gear tray assembly for easy access and maintenance
- Compatible with the following ceiling types:
 - Exposed T 25mm flat
 - Exposed T 15mm tegular
 - Spring T
 - Plasterboard prepared aperture (using optional frame)
 - Alugrid 15/16 – 15/08
- DALI
- Air handling:
 - 30 litres per second. Consult Whitecroft Technical Desk

Organic Response®

- Organic Response® is a self-contained, integral sensor which communicates wirelessly with its neighbouring luminaires, thereby automatically controlling light across the area
- The moment a sensor detects occupancy, it switches on its luminaire to a predetermined level. It simultaneously communicates with its immediate neighbours, using wireless infrared, telling them it can see someone. On receipt of this signal, the neighbouring sensor switches its luminaire on to a specified level (e.g. 80%), and simultaneously relays a signal to its own neighbours. This propagates rapidly throughout the floor with each sensor receiving a signal indicating how close someone is to it, and emitting a pre-programmed light level based on that occupancy information
- Integral Organic Response® sensor is installed centrally in the outer edge of the Cascade Edge
- Every luminaire within the area to be controlled must have an integral Organic Response® sensor



cascade edge

Order Codes

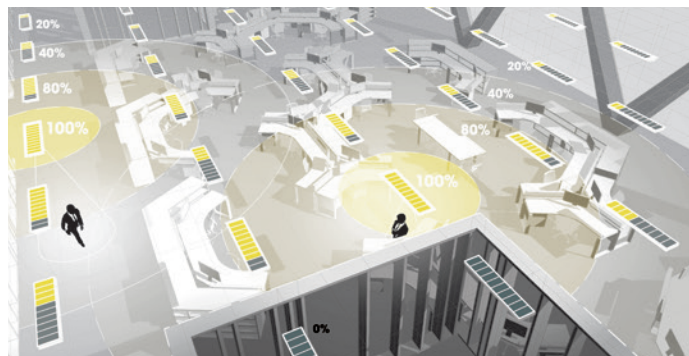
Cascade Edge	DALI	3 hr Emergency
LED 3500 Lumen (46W), DALI, XT	CLTRGY35PXT	CLTRGY35PXTEM
T5 4 x 14W, DALI, XT	CETRGY414PXT	CETRGY414PXTEM

Options

EASYTEST	Add suffix /ET	i.e. CLTRGY35PXT/ET
COMEPS	Add suffix /EP	i.e. CLTRGY35PXT/EP
SPRING T INTEGRATION	Replace XT with ST	i.e. CLTRGY35PST
PLASTERBOARD INSTALLATION FRAME*		SFTPBF

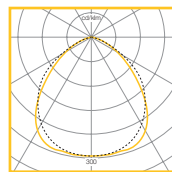
*To be used with XT product

Functionality



When movement is detected, a signal is relayed via infrared to other Organic Response® luminaires in the area.

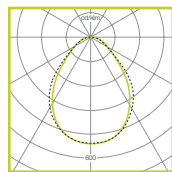
Photometric Performance



4 x 14W T5
• LOR = 71%
• SHR MAX = 1.61

Utilisation Factors UF(F)

Calculation Factors for ρ_r					
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.54	0.71	0.76

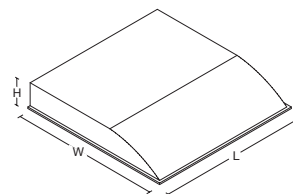


46W LED
3500 lumens
• LOR = 100%
• SHR MAX = 1.38

Utilisation Factors UF(F)

Calculation Factors for ρ_r					
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.76	1.00	1.05

Dimensions



Version	L	W	H	Prepared Aperture	KG	KG
Exposed T	584	584	95	—	6.1	7.1
Spring T	599	599	100	—	6.3	7.2
Plasterboard Frame	660	660	100	625 x 625 $_{-3}^{+3}$	8.1	9.1

Ceiling Integration

Refer to common ceiling compatibility matrix – See Whitecroft website

Exposed T Grids

T25 Lay in
T15 Tegular

Alugrids

SAS AL 15/16
SAS AL 15/08

Spring T Grids (add ST)

SAS – 150
Armstrong – Orcal 3000
Burgess – Clip in / A bar
Armstrong – Orcal 1800 Half Spring T
Burgess Clip in Half Spring T

Plasterboard (requires installation frame)

Prepared aperture

Equivalent Lamp Types

3500 Lumen Output

T5 lamp 4 x 14W

LED Performance

Colour Temp	Ra (CRI)	Life Expectancy	Colour Consistency
4000K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 3 SDCM

To Specify

Direct/indirect T5 or LED recessed luminaire. Twin cell Hexaprism optic with perforated blades, mounted in a steel body painted white with air handling facility. Integrated Organic Response sensor unit – as Whitecroft Lighting CASCADE EDGE WITH ORGANIC RESPONSE®