





duo 600 side optic 90



duo 600 centre optic 91



duo 500 centre optic 92



duo 1200 linear 93



duo line 98



softcell 3 600 102



softcell 3 500 103



vivant 600 106



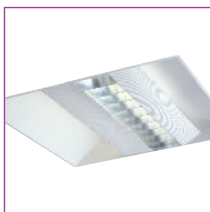
vivant 500 107



vivant mist 108



vivant 1200 linear 109



cascade TSI 112



cascade louvre 116



cascade micro perforated 117



cascade retail 118



cirrus 119



spear 120



spear profile 121



spear diffuser 122



broadspread contenda 123



hygiene 124



broadspread asymmetric 126



gibraltar 127

recessed fluorescent



Duo - a revolutionary range of luminaires designed to have a positive effect...

....On the Space

Choosing the right luminaire for any space is a subjective process where appearance is paramount. Duo has been designed to integrate and harmonise with the aesthetics of a modern office environment and provide soft, even illumination of all surfaces.

...On the People

Duo has been designed to not only maximise the visual aspects of the lit environment, but also address our emotional and biological requirements. In doing this it creates a more motivating and comfortable workplace.

...On the Business

Because Duo has a positive effect on both the space and the staff who work within that space, businesses can reap the benefits of a more effective workforce.

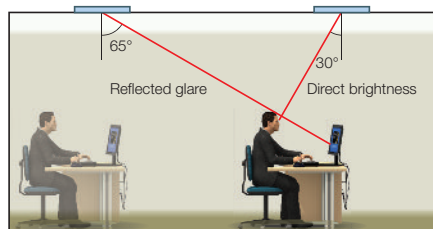
duo[®] the positive effects of light

The Direct View

The traditional measurement of glare of a luminaire is defined at 65° of elevation. This measurement method was developed to imitate the reflectance of a luminaire in a computer screen. Luminance limits were based on screens with a brightness of only 20-50cd/m². Today's monitors have a brightness of between 200-300cd/m² and can cope with luminaire brightnesses in excess of 2,000-3,000cd/m² without causing discomfort.

We should assess the modern luminaire in degrees of comfort rather than glare. With normal ceiling height, luminaires enter our field of vision at a far lower angle of incidence. Although we generally do not look directly at a luminaire from a 30° angle, we are aware of the brightness and will make a subconscious judgement as to the degree of discomfort this causes.

Duo is offered with a range of luminance limits and employs Intermediate Brightness Zones to reduce sudden changes in brightness across the ceiling plane.



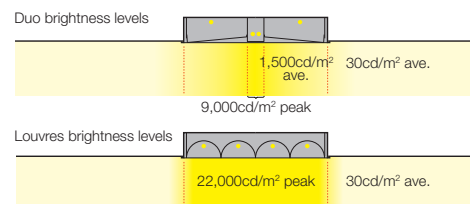
Creating a Brighter Ceiling

Perceived brightness as registered by the human eye differs greatly from that measured by a light meter. Peak intensities, as can occur with T5 lamps in louvred optics, can cause severe discomfort.

Duo's unique Intermediate Brightness Zone (IBZ) technology diffuses brightness across the entire optic eliminating visual discomfort whilst greatly contributing to the perceived ceiling brightness. Unlike semi-recessed luminaires traditionally used to achieve LG7 ceiling brightness levels, Duo's IBZ's have been specifically designed to optimise visual comfort. The eye registers the contribution of the luminaire to ceiling brightness levels while sensing no discomfort from peak intensities. Duo therefore delivers a ceiling brightness well above the room surface illuminance ratios demanded by LG7:2005.

Intermediate Brightness Zones

Duo employs Intermediate Brightness Zone technology to create a graduated brightness between the high intensity of a light source and the relatively low luminance of the ceiling. The complex structure of the IBZ polycarbonate material produces a highly diffuse light with constant brightness from all angles of view.



The contrast between luminaire and ceiling is lessened by the IBZ, allowing the human eye to adapt to a more comfortable view.





duo[®]

dual optic recessed luminaire

Optics

- 3 optical options:
 - Micro prism – combines micro optical cones and micro linear prisms in a pod which can be fully recessed or lowered to deliver further enhanced room surface ratios
 - Living louvre – vacuum metalised injection moulded and textured louvre
 - Semi-specular louvre – high quality zero iridescence aluminium louvre
- 600 x 600mm lamp options:
 - 4 x 14W T5
 - 3 x 24W T5
- 500 x 500mm lamp options:
 - 4 x 14W T5
- 1200 x 300mm lamp options:
 - 1 or 2 x 28/54W T5
- Side or centre optic positions (side optic 600 only)
- Intermediate brightness zone technology using TP(a) rated polycarbonate material

Body

- Steel body finished white
- For 500 x 500mm, 600 x 600mm or 1200 x 300mm grid ceilings
- Compatible with the following ceiling types:
 - Exposed T 15mm and 25mm flat
 - Exposed T 15mm tegular (600 only)
 - Spring T
 - Plasterboard prepared aperture
- Air handling as standard 20 to 40 litres per second depending on luminaire type (refer to Whitecroft Technical Department)

Optional features

- Bio-dynamic lighting technology integration - delivering enhanced well being and productivity in all occupants
- 'Duo Colour', virtual flood lighting - to flood light building from inside with LED's



duo[®] 600 x 600 side optic

> weblink > **DUO**

ORDER CODES

Duo Micro Prism Optic **HF Gear** **3 hr Emergency**

T5 4 x 14W **DUOSH414PXT** **DUOSH414PXTEMIN**

Duo Living Louvre **HF Gear** **3 hr Emergency**

T5 4 x 14W **DUOSH414VXT** **DUOSH414VXTEMIN**

T5 3 x 24W **DUOSH324VXT** **DUOSH324VXTEMIN**

Duo Semi-Specular Louvre **HF Gear** **3 hr Emergency**

T5 4 x 14W **DUOSH414WXT** **DUOSH414WXTEMIN**

T5 3 x 24W **DUOSH324WXT** **DUOSH324WXTEMIN**

Options

DALI DIMMING Replace H with **Y** in order code i.e. DUOS**Y**414PXT

DSI DIMMING Replace H with **D** in order code i.e. DUOS**D**414PXT

SWITCH DIMMING Replace H with **X** in order code i.e. DUOS**X**414PXT

EASYTEST Add suffix **/ET** to order code i.e. DUOSH414PXT/**ET**

COMET Add suffix **/CT** to order code i.e. DUOSH414PXT/**CT**

PREPARED APERTURE/
SPRING T INTEGRATION Replace XT with **ST** in order code i.e. DUOSH414**PST**

REGULAR T15

CEILING INTEGRATION Bracket kit for pull up **DUO600BKTKIT**

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T25 Lay in

T15 Lay in

T15 Tegal (Bracket kit required)

Spring T Grids (Add ST to order code)

SAS – 150

Armstrong – Orcal 1800/3000

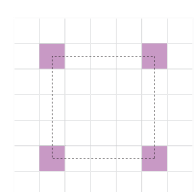
Burgess – Clip in/A bar

Plasterboard (Add ST to order code)

Prepared aperture

PERFORMANCE GUIDE

Lamps Illuminance Spacing
4 x 14W T5 530 lux 2.4m x 2.4m

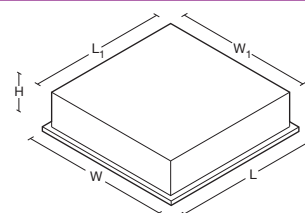


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

LAMP PERFORMANCE

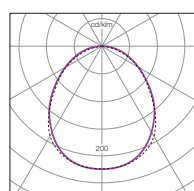
Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 24W T5	1750	24,000hrs

DIMENSIONS



Version	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Exposed T	593	593	103	575	575	–	4.9	5.9
Plasterboard/Spring T	599	599	103	575	575	587 x 587 ⁻⁰ / ₊₅	4.9	5.9

PHOTOMETRIC PERFORMANCE

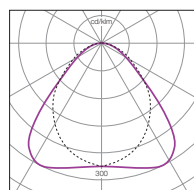


4 x 14W T5
Micro Prism
• LOR* = 62.0 (66.7%)
• SHR MAX = 1.53

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.45 0.61 0.65

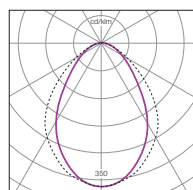
*Cell in recessed position – Figures in brackets cell in lowered position



4 x 14W T5
Living Louvre
• LOR = 68.2%
• SHR MAX = 1.73

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.52 0.69 0.73



4 x 14W T5
Semi-Specular
• LOR = 64.1%
• SHR MAX = 1.30

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.50 0.65 0.68

TO SPECIFY

Recessed T5 600 x 600mm luminaire with dual optic configuration and air return facility. Incorporating Intermediate Brightness Zone element to diffuse light and graduate brightness across the ceiling, manufactured in a Tp(a) rated polycarbonate, and 2 optical cells with (Micro prisms / Living Louvre / Semi spec Louvre) to control light and reduce glare – as Whitecroft Lighting DUO

duo[®] 600 x 600 centre optic

> weblink > **DUO**



ORDER CODES

Duo Micro Prism Optic	HF Gear	3 hr Emergency
T5 3 x 24W	DUOCH324PXT	DUOCH324PXTEMIN

Duo Living Louvre	HF Gear	3 hr Emergency
T5 4 x 14W	DUOCH414VXT	DUOCH414VXTEMIN
T5 3 x 24W	DUOCH324VXT	DUOCH324VXTEMIN

Duo Semi-Specular Louvre	HF Gear	3 hr Emergency
T5 4 x 14W	DUOCH414WXT	DUOCH414WXTEMIN
T5 3 x 24W	DUOCH324WXT	DUOCH324WXTEMIN

Options

DALI DIMMING	Replace H with Y in order code	i.e. DUOC Y 324PXT
DSI DIMMING	Replace H with D in order code	i.e. DUOC D 324PXT
SWITCH DIMMING	Replace H with X in order code	i.e. DUOC X 324PXT
EASYTEST	Add suffix /ET to order code	i.e. DUOCH324PXT/ ET
COMET	Add suffix /CT to order code	i.e. DUOCH324PXT/ CT
PREPARED APERTURE/ SPRING T INTEGRATION	Replace XT with ST in order code	i.e. DUOCH324 PST
REGULAR T15 CEILING INTEGRATION	Bracket kit for pull up	DUO600BKTKIT

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T25 Lay in
T15 Lay in
T15 Tegal (Bracket kit required)

Spring T Grids (Add ST to order code)

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

Plasterboard (Add ST to order code)

Prepared aperture

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	520 lux	2.4m x 2.4m

Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 2.7m
Working Plane: 0.8m

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 24W T5	1750	24,000hrs



Micro prism optic (lowered)

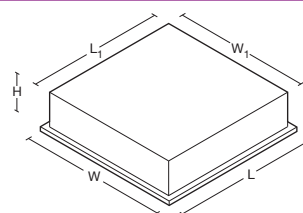


Living louvre



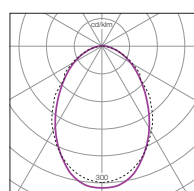
Semi-specular louvre

DIMENSIONS



Version	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Exposed T	593	593	103	575	575	–	4.9	5.9
Plasterboard/Spring T	599	599	103	575	575	587 x 587 ⁻⁰ / ₊₅	4.9	5.9

PHOTOMETRIC PERFORMANCE

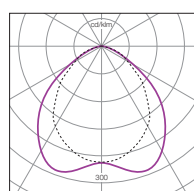


3 x 24W T5
Micro Prism
• LOR* = 61.3 (61.8%)
• SHR MAX = 1.59

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.47 0.64 0.69

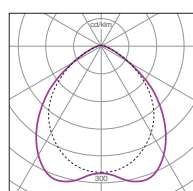
*Cell in recessed position – Figures in brackets cell in lowered position



4 x 14W T5
Living Louvre
• LOR = 66.9%
• SHR MAX = 1.70

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.50 0.67 0.71



4 x 14W T5
Semi-Specular
• LOR = 67%
• SHR MAX = 1.68

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.52 0.67 0.71

TO SPECIFY

Recessed T5 600 x 600mm luminaire with dual optic configuration and air return facility. Incorporating Intermediate Brightness Zone element to diffuse light and graduate brightness across the ceiling, manufactured in a Tp(a) rated polycarbonate, and 1 optical cell with (Micro prisms / Living Louvre / Semi spec Louvre) to control light and reduce glare – as Whitecroft Lighting DUO

duo[®] 500 x 500 centre optic

> weblink > **DUO5**

ORDER CODES

Duo Living Louvre	HF Gear	3 hr Emergency
T5 4 x 14W	DUO5CH414VXT	DUO5CH414VXTMIN

Options

DALI DIMMING	Replace H with Y in order code	i.e. DUO5C Y 414VXT
DSI DIMMING	Replace H with D in order code	i.e. DUO5C D 414VXT
SWITCH DIMMING	Replace H with X in order code	i.e. DUO5C X 414VXT
EASYTEST	Add suffix /ET to order code	i.e. DUO5CH414VXT/ ET
COMET	Add suffix /CT to order code	i.e. DUO5CH414VXT/ CT

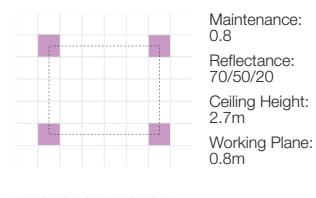


LAMP PERFORMANCE

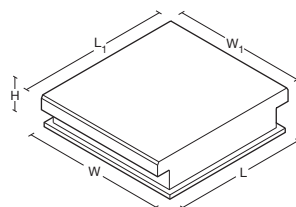
Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	480 lux	2.5m x 2.0m



DIMENSIONS



L	W	H	L ₁	W ₁	KG	KG
493	493	101	571	475	4.2	5.5

CEILING INTEGRATION

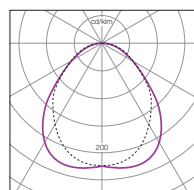
Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T25 Lay in

T15 Lay in

PHOTOMETRIC PERFORMANCE



4 x 14W T5
Living Louvre
• LOR = 54.6%
• SHR MAX = 1.67

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.41	0.54	0.58

TO SPECIFY

Recessed T5 500 x 500mm luminaire with dual optic configuration and air return facility. Incorporating Intermediate Brightness Zone element to diffuse light and graduate brightness across the ceiling, manufactured in a Tp(a) rated polycarbonate, and 1 optical cell with Living Louvre to control light and reduce glare – as Whitecroft Lighting DUO

duo[®] 1200 x 300 linear

> weblink > **DUOL**

ORDER CODES

Duo Micro Prism Optic	HF Gear	3 hr Emergency
T5 1 x 28W	DUOCH128PST	DUOCH128PSTEMIN
T5 2 x 28W	DUOCH228PST	DUOCH228PSTEMIN

Duo Living Louvre	HF Gear	3 hr Emergency
T5 1 x 28W	DUOCH128VST	DUOCH128VSTEMIN
T5 2 x 28W	DUOCH228VST	DUOCH228VSTEMIN
T5 1 x 54W	DUOCH154VST	DUOCH154VSTEMIN
T5 2 x 54W	DUOCH254VST	DUOCH254VSTEMIN

Duo Semi-Specular Louvre	HF Gear	3 hr Emergency
T5 1 x 28W	DUOCH128WST	DUOCH128WSTEMIN
T5 2 x 28W	DUOCH228WST	DUOCH228WSTEMIN
T5 1 x 54W	DUOCH154WST	DUOCH154WSTEMIN
T5 2 x 54W	DUOCH254WST	DUOCH254WSTEMIN

Options

DALI DIMMING	Replace H with Y in order code	i.e. DUOC Y 128PST
DSI DIMMING	Replace H with D in order code	i.e. DUOC D 128PST
SWITCH DIMMING	Replace H with X in order code	i.e. DUOC X 128PST
EASYTEST	Add suffix /ET to order code	i.e. DUOCH128PST/ ET
COMET	Add suffix /CT to order code	i.e. DUOCH128PST/ CT



Living louvre



Semi-specular louvre

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Spring T Grids

SAS – 150

Armstrong – Orcal 1800/3000

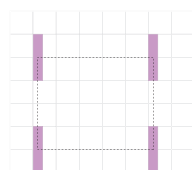
Burgess – Clip in/A bar

Plasterboard

Prepared aperture

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
2 x 28W T5	520 lux	2.4m x 3.0m

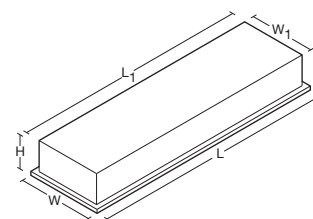


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

LAMP PERFORMANCE

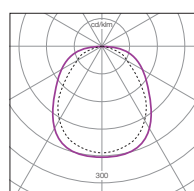
Wattage	IL@25°C	Lamp Life
1 x 28W T5	2600	24,000hrs
1 x 54W T5	4450	24,000hrs

DIMENSIONS



Version	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Plasterboard/Spring T	1199	299	123	1175	275	285 x 1187 ⁺⁰ / ₋₅	8.1	9.1

PHOTOMETRIC PERFORMANCE

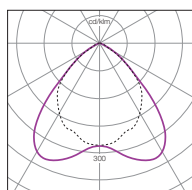


1 x 28W T5
Micro Prism
• LOR* = 67.1 (75.0%)
• SHR MAX = 1.53

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.47	0.65	0.70

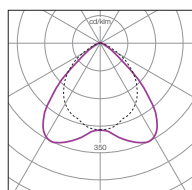
*Cell in recessed position – Figures in brackets cell in lowered position



1 x 28W T5
Living Louvre
• LOR = 69.7%
• SHR MAX = 1.81

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.51	0.70	0.74



1 x 28W T5
Semi-Specular
• LOR = 69.1%
• SHR MAX = 1.81

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.51	0.70	0.74

TO SPECIFY

Recessed T5 300 x 1200mm luminaire with dual optic configuration and air return facility. Incorporating Intermediate Brightness Zone element to diffuse light and graduate brightness across the ceiling, manufactured in a Tp(a) rated polycarbonate, and 1 optical cell with (Micro prisms / Living Louvre / Semi spec Louvre) to control light and reduce glare – as Whitecroft Lighting DUO

duo[®] bio-dynamic lighting

Creating the Right Appearance

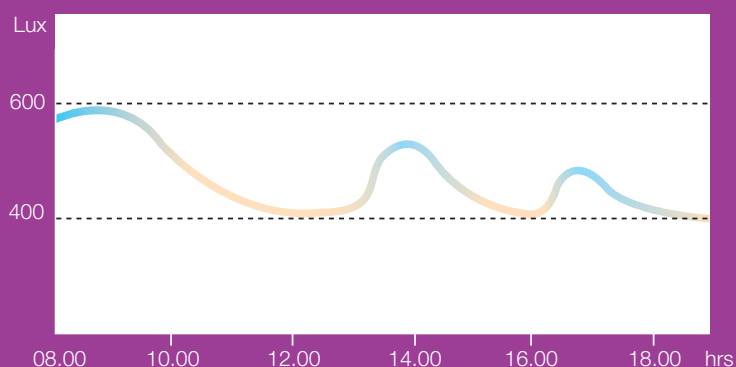
Duo has been designed to provide motivating, interesting and comfortable spaces. The choice of colour temperature of the lamps used in Duo can have a dramatic impact on the appearance of the space. Furthermore, research has shown that colour temperature has a direct biological effect on the occupants of the workspace.

The colour temperature of lamps used in the Duo range can be tailored to determine the effect the lighting has on its surroundings. A warm colour temperature can have a relaxing effect, whilst a cooler colour temperature will aid concentration.

The use of 6500k daylight balanced lamps is becoming more popular in the workplace, as their cool appearance creates a bright space with a more natural outdoor feel.



Bio-dynamic Lighting Technology



Duo is available with Bio-dynamic Lighting which enables a continual subtle change in both the colour temperature and intensity of the lighting during the working day. This specially developed control system is programmed to a unique algorithm which optimises both colour temperature and lighting level.

This will counteract the body's natural tendency to be less alert at certain parts of the day, resulting in an improvement not only in performance, but in the well-being of users.

Understanding the Biological Effects of Light

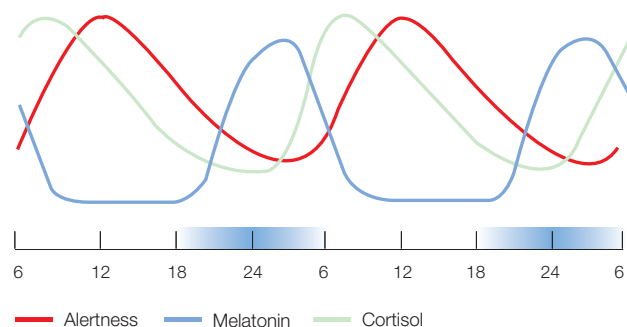
To further influence the effect that lighting has on people, it is important to understand the relationship between light and the body's alertness.

Light is not just image forming. The human body responds to changes in light intensity and colour resulting in different levels of alertness throughout the day. Two chemicals, Cortisol and Melatonin, are produced by the body and these control our alertness levels. This is called the Circadian Rhythm. Melatonin is a sleep hormone and Cortisol promotes alertness. Over a 24 hour period these combine to create our natural rhythm of sleeping and waking hours. This rhythm is regulated by natural changes in light.

Research has proved that varying the intensity and colour temperature of artificial lighting can increase alertness and contribute to a feeling of well-being.

When looked at in more detail, the body experiences peaks and troughs of alertness during the day. Artificial lighting can be used to counteract these dips by altering the colour temperature and light intensity within a workspace during the day to promote awareness at times when Melatonin (sleep hormone) is naturally increasing in the body. This technique creates a more productive and stimulating working environment.

Circadian Rhythm - the body's natural cycle of alertness



ORDER CODES

600 x 600 Micro Side Optic	DALI Dimming	3 hr Emergency
T5 6 x 14W	DUOSYS614PXT	DUOSYS614PXTEMIN
600 x 600 Living Louvre Side Optic	DALI Dimming	3 hr Emergency
T5 6 x 14W	DUOSYS614VXT	DUOSYS614VXTEMIN
600 x 600 Micro Centre Optic	DALI Dimming	3 hr Emergency
T5 5 x 24W	DUOCYS524PXT	DUOCYS524PXTEMIN
600 x 600 Living Louvre Centre Optic	DALI Dimming	3 hr Emergency
T5 6 x 14W	DUOCYS614VXT	DUOCYS614VXTEMIN
1200 x 300 Micro Centre Optic	DALI Dimming	3 hr Emergency
T5 3 x 28W	DUOCYS328PST	DUOCYS328PSTEMIN
1200 x 300 Living Louvre Centre Optic	DALI Dimming	3 hr Emergency
T5 3 x 28W	DUOCYS328VST	DUOCYS328VSTEMIN

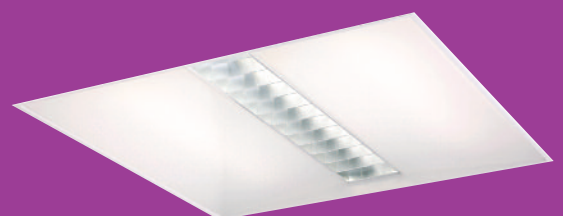
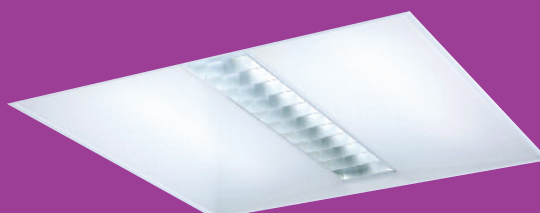
Bio-dynamic Controller

Bio-dynamic Controller
(controls up to 100 luminaires)

DUOBDC

Bio-dynamic Controller with Duo colour control
(controls up to 100 luminaires)

DUOBDCL



Duo's Bio-dynamic Lighting system gradually varies both lighting intensity and colour temperature throughout the working day to create the optimum working environment



duo[®] colour





Adding Drama

Duo can be used for more than functional lighting. It is available with built-in LED elements which can be used to create a number of dramatic effects.

For any prestigious project, the building's night-time appearance is an important factor. Until now this has been achieved with external luminaires which are both costly to install and run. Duo can incorporate coloured LED elements which can be used to 'floodlight' the building from inside creating a dramatic visual statement.

The LED element is contained within the body of the luminaire and consumes only 9W of power, giving the designer the opportunity to significantly reduce energy consumption when compared to a conventional floodlighting scheme.

Duo Colour can be used for a number of applications as well as building floodlighting. Reception areas can be illuminated in corporate colours, whilst using Duo Colour in stairwells and lift lobbies could aid navigation or enhance architectural features.

ORDER CODES

Duo Colour

LED Kit Blue	Add suffix /LB to order code	i.e.DUOSH414PXT/ LB
LED Kit Red	Add suffix /LR to order code	i.e.DUOSH414PXT/ LR
LED Kit Green	Add suffix /LG to order code	i.e.DUOSH414PXT/ LG



duo[®] line

linear recessed luminaire with micro polymer diffuser

> weblink > **DUOLI**

Optics

- Easy to clean Duo micro-polymer TP(a) rated polycarbonate diffuser
- Lamp options:
 - 1 x 28/54W T5

Body

- Steel body finished white
- IP40 rating from the front of the luminaire
- Can be installed in exposed T15/T25 or plasterboard ceilings



ORDER CODES

Duo Line	HF Gear	3 hr Emergency
T5 1 x 28W	DUOLH128	DUOLH128EMIN
T5 1 x 54W	DUOLH154	DUOLH154EMIN

Options

DALI DIMMING	Replace H with Y in order code	i.e. DUOL Y 128
DSI DIMMING	Replace H with D in order code	i.e. DUOL D 128
SWITCH DIMMING	Replace H with X in order code	i.e. DUOL X 128
EASYTEST	Add suffix /ET to order code	i.e. DUOLH128/ ET
COMET	Add suffix /CT to order code	i.e. DUOLH128/ CT
PLASTERBOARD/EXPOSED T TEGULAR INSTALLATION KIT		LUMAFIXBKTKit

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 28W T5	2600	24,000hrs
1 x 54W T5	4450	24,000hrs

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

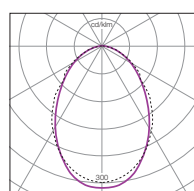
Exposed T Grids

T25 Lay in
T15 Lay in
T15/T25 Pull up (Installation kit required)

Plasterboard

Prepared aperture (Installation kit required)

PHOTOMETRIC PERFORMANCE



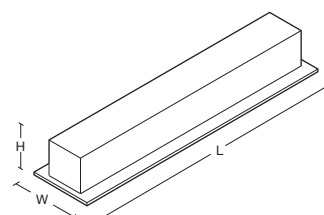
- 1 x 54W T5
- LOR = 63.5%
- SHR MAX = 1.35

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.46	0.62	0.67



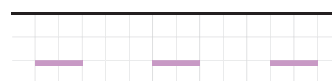
DIMENSIONS



Version	L	W	H	Prepared Aperture	KG	KG
Exposed T/Plasterboard	1195	197	120	175 x 1175 ⁺³ ₋₃	6.5	7.5

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
1 x 54W T5	200 lux	3.0m



Maintenance:
0.8

Reflectance:
70/50/20

Ceiling Height:
2.7m

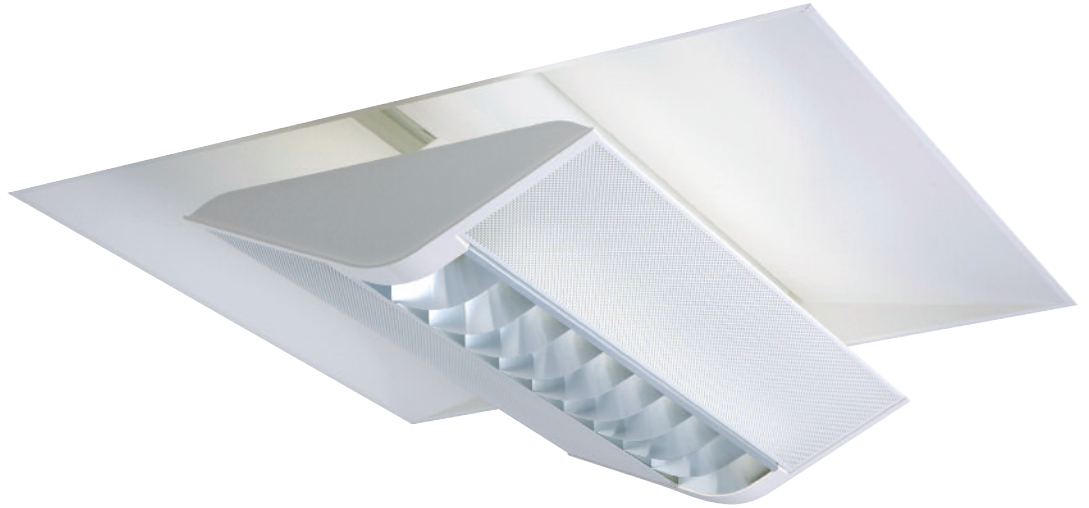
Working Plane:
0.0m

TO SPECIFY

Recessed T5 linear IP40 luminaire, with easy to clean Duo Micro-Polymer TP(a) rated polycarbonate diffuser. Steel body finished white, designed to fit both modular T-bar or plasterboard ceilings – as Whitecroft Lighting DUO LINE

The
co-operative
legal services





softcell 3

semi-recessed luminaire with direct ceiling illuminance

Optics

- MIRO 5 zero iridescent semi-specular curved nose louvre
- Lamp options:
 - 600 x 600mm – 3 or 4 x 14/24W T5
 - 500 x 500mm – 3 or 4 x 14W T5
- Can provide compliance with LG7:2005 using only Softcell 3 luminaires to deliver 30% ceiling illuminance ratio and 50% wall illuminance ratio

Body

- 600 x 600mm and 500 x 500mm recessed ceiling mount finished white
- 600mm surface mount finished white
- Perforated steel aerofoil finished white
- One piece colour coded end-caps in injection moulded polycarbonate
- Control gear, lamps and emergency pack contained within aerofoil
- Tool free access for maintenance
- Air handling as standard, 20 litres per second



softcell 3 600 x 600

> weblink > **SOF3**

ORDER CODES

Order both Aerofoil and Ceiling Mount for complete luminaire

Softcell 3 Aerofoil	HF Gear	3 hr Emergency
T5 3 x 14W	SOF3W5H314	SOF3W5H314EMIN
T5 4 x 14W	SOF3W5H414	SOF3W5H414EMIN
T5 3 x 24W	SOF3W5H324	SOF3W5H324EMIN
T5 4 x 24W	SOF3W5H424	SOF3W5H424EMIN

Softcell 3 Ceiling Mount

Recessed ceiling mount – exposed T15 Tegular /T25 Lay in	SOF3600XT
Recessed ceiling mount – spring T	SOF3600ST
Surface ceiling mount	SOF3600SM

Options

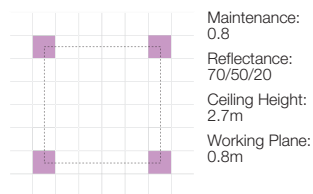
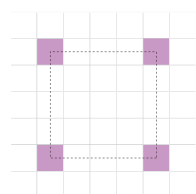
DALI DIMMING	Replace H with Y in order code	i.e. SOF3W5 Y 314
DSI DIMMING	Replace H with D in order code	i.e. SOF3W5 D 314
SWITCH DIMMING	Replace H with X in order code	i.e. SOF3W5 X 314
COMMAND 4	Replace H with Q4Y in order code	i.e. SOF3W5 Q4Y 314
EASYTEST	Add suffix /ET to order code	i.e. SOF3W5H314/ ET
COMET	Add suffix /CT to order code	i.e. SOF3W5H314/ CT

LAMP PERFORMANCE

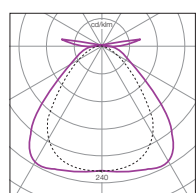
Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 24W T5	1750	24,000hrs

PERFORMANCE GUIDE

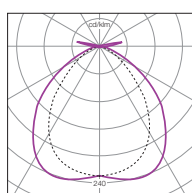
Lamps	Illuminance	Spacing	Lamps	Illuminance	Spacing
4 x 14W T5	450 lux	2.4m x 2.4m	4 x 24W T5	500 lux	3.0m x 3.0m



PHOTOMETRIC PERFORMANCE



Utilisation Factors UF(F)					
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.42	0.55	0.59

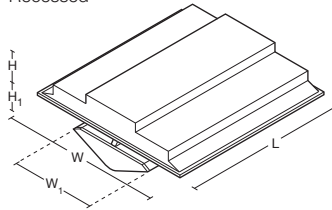


Utilisation Factors UF(F)					
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.47	0.62	0.66



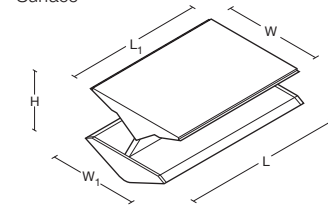
DIMENSIONS

Recessed



Version	L	W	H	H ₁	W ₁	KG	KG
Exposed T	584	584	91	120	295	5.8	6.2
Spring T	599	599	91	120	295	5.8	6.2

Surface



L	W	H	L ₁	W ₁	KG	KG
593	337	206	567	295	5.8	6.2

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T25 Lay in
T15 Tegular

Spring T Grids

SAS – 150/120
Armstrong – Orcal 1800
Burgess – Clip in

TO SPECIFY

Architectural T5 600 x 600 luminaire offering semi-recessed and surface options, all delivering >50% of average working plane illuminance on walls and 30% on ceilings whilst avoiding abrupt luminance change. Curved nose louvre in MIRO 5 material. No disruption to Coanda effect – as Whitecroft Lighting SOFTCELL 3

softcell 3 500 x 500

> weblink > **SOF3**

ORDER CODES

Order both Aerofoil and Ceiling Mount for complete luminaire

Softcell 3 Aerofoil	HF Gear	3 hr Emergency
T5 3 x 14W	SOF35W5H314	SOF35W5H314EMIN
T5 4 x 14W	SOF35W5H414	SOF35W5H414EMIN

Softcell 3 Ceiling Mount

Recessed ceiling mount – exposed T15 Tegular/T25 Lay in	SOF3500XT
---	------------------

Options

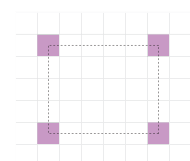
DALI DIMMING	Replace H with Y in order code	i.e. SOF35W5 Y 314
DSI DIMMING	Replace H with D in order code	i.e. SOF35W5 D 314
SWITCH DIMMING	Replace H with X in order code	i.e. SOF35W5 X 314
COMMAND 4	Replace H with Q4Y in order code	i.e. SOF35W5 Q4Y 314
EASYTEST	Add suffix /ET to order code	i.e. SOF35W5H314/ ET
COMET	Add suffix /CT to order code	i.e. SOF35W5H314/ CT

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	490 lux	2.5m x 2.0m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

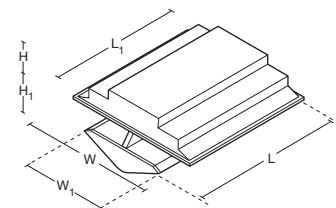
CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

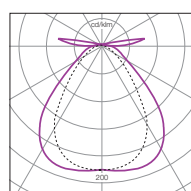
T25 Lay in
T15 Tegular

DIMENSIONS

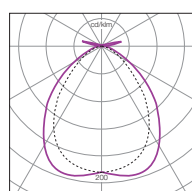


L	W	H	L ₁	W ₁	H ₁	KG	KG
593	484	91	484	295	120	4.9	5.3

PHOTOMETRIC PERFORMANCE



3 x 14W T5
• LOR = 56.4%
• SHR MAX = 1.63



4 x 14W T5
• LOR = 60%
• SHR MAX = 1.53

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.40	0.53	0.56

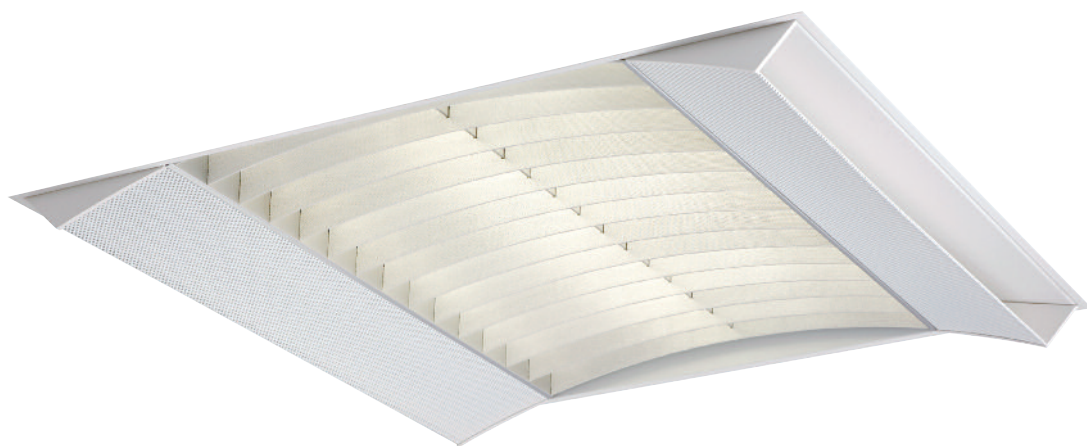
Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.45	0.58	0.61

TO SPECIFY

Architectural semi-recessed 500 x 500 T5 luminaire delivering >50% of average working plane illuminance on walls and 30% on ceilings whilst avoiding abrupt luminance change. Curved nose louvre in MIRO 5 material. No disruption to Coanda effect – as Whitecroft Lighting SOFTCELL 3





vivant[®]

semi-recessed luminaire with living louvre technology

Optics

- Living louvre or Mist diffuser versions available:
 - Living louvre: Positively retained with shimmer effect vacuum metalised blades
 - Mist diffuser: Ribbed opal polycarbonate TP(a) diffuser. (600 x 600mm only)
- All luminaires have perforated Matrix luminance profilers delivering wall and ceiling wash
- Lamp options:
 - 600 x 600mm – 4 x 14W or 2 x 24W T5
 - 500 x 500mm – 4 x 14W or 2 x 36W TC-L
 - 1200 x 300mm – 1 or 2 x 28W or 54W T5

Body

- Steel body finished white
- For multiple ceiling integration
- Air handling as standard, 30 litres per second



vivant® 600 x 600

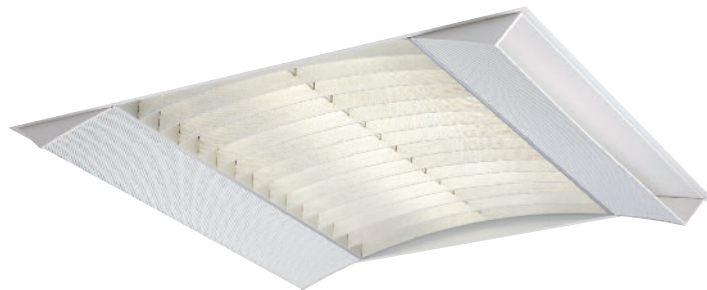
> weblink > **VIV6**

ORDER CODES

Vivant 600 x 600	HF Gear	3 hr Emergency
T5 2 x 24W	VIVM224	VIVM224EMIN
T5 4 x 14W	VIVM414	VIVM414EMIN

Options

DALI DIMMING	Add Y after VIVM	i.e. VIVMY414
DSI DIMMING	Add D after VIVM	i.e. VIVMD414
SWITCH DIMMING	Add X after VIVM	i.e. VIVMX414
COMMAND 4	Add Q4Y after VIVM	i.e. VIVMQ4Y414
COMMAND 3	Add Q3Y after VIVM	i.e. VIVMQ3Y414
EASYTEST	Add suffix /ET to order code	i.e. VIVM414/ET
COMET	Add suffix /CT to order code	i.e. VIVM414/CT
PREPARED APERTURE/ SPRING T INTEGRATION	Add suffix ST to order code	i.e. VIVM414ST



LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 24W T5	1750	24,000hrs

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T25 Lay in

T15 Tegular

Alugrids

SAS AL 15/16

SAS AL 15/08

Spring T Grids (Add ST to order code)

SAS – 150/120

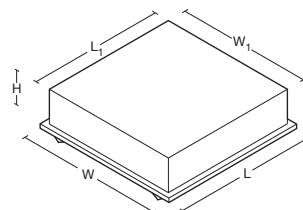
Armstrong – Orcal 1800

Burgess – Clip in

Plasterboard (Add ST to order code)

Prepared aperture

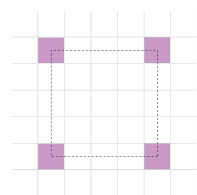
DIMENSIONS



Version	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Exposed T	584	584	113	571	567	–	7.5	8.5
Plasterboard/Spring T	599	599	113	571	551	575 x 575 ± 5	7.5	8.5

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	500 lux	2.4m x 2.4m



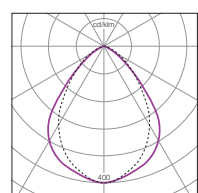
Maintenance:
0.8

Reflectance:
70/50/20

Ceiling Height:
2.7m

Working Plane:
0.8m

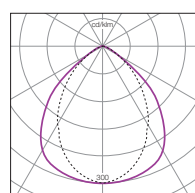
PHOTOMETRIC PERFORMANCE



- LOR = 66.4%
- SHR MAX = 1.48

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.53	0.67	0.71



- LOR = 63.3%
- SHR MAX = 1.53

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.51	0.65	0.68

TO SPECIFY

Semi-recessed architectural T5 600 x 600 luminaire with a concave metalised living louvre and matrix luminance profilers projecting 28mm below the ceiling delivering light spill on the ceiling and a smoothly graduated wall wash. Optic to incorporate intermediate brightness zones for maximum visual comfort – as Whitecroft Lighting VIVANT

vivant® 500 x 500

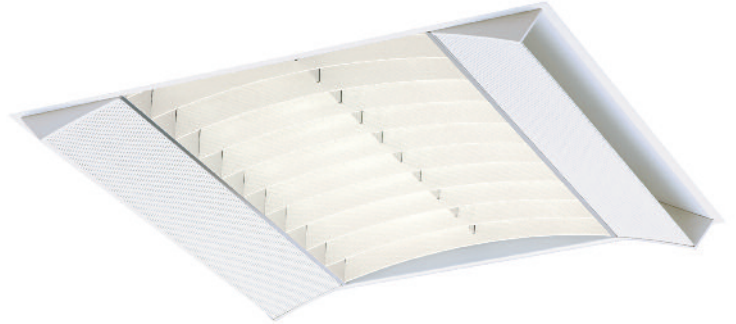
> weblink > **VIV5**

ORDER CODES

Vivant 500 x 500	HF Gear	3 hr Emergency
TC-L 2 x 36W	VIV5M236	VIV5M236EMIN
T5 4 x 14W	VIV5M414	VIV5M414EMIN

Options

DALI DIMMING	Add Y after VIV5M	i.e. VIV5M Y 414
DSI DIMMING	Add D after VIV5M	i.e. VIV5M D 414
SWITCH DIMMING	Add X after VIV5M	i.e. VIV5M X 414
COMMAND 4	Add Q4Y after VIV5M	i.e. VIV5M Q4Y 414
COMMAND 3	Add Q3Y after VIV5M	i.e. VIV5M Q3Y 414
EASYTEST	Add suffix /ET to order code	i.e. VIV5M414/ ET
COMET	Add suffix /CT to order code	i.e. VIV5M414/ CT
SPRING T	Add suffix ST to order code	i.e. VIV5M236 ST



LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 36W TC-L	2900	20,000hrs

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T25 Lay in

T15 Tegular

Spring T Grids (Add ST to order code)

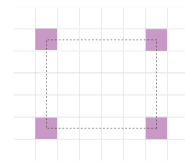
SAS – 150/120

Armstrong – Orcal 1800

Burgess – Clip in

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	480 lux	2.5m x 2.0m



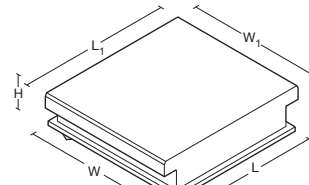
Maintenance: 0.8

Reflectance: 70/50/20

Ceiling Height: 2.7m

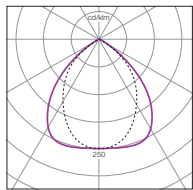
Working Plane: 0.8m

DIMENSIONS

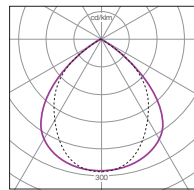


Version	L	W	H	L ₁	W ₁	KG	KG
Exposed T	485	485	107	571	466	7.0	8.0
Spring T	499	499	107	571	454	7.0	8.0

PHOTOMETRIC PERFORMANCE



- LOR = 53%
- SHR MAX = 1.67



- LOR = 54%
- SHR MAX = 1.66

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.42	0.54	0.57

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.44	0.55	0.58

TO SPECIFY

Semi-recessed architectural T5 500 x 500 luminaire with a concave metalized living louvre and matrix luminance profilers projecting 25mm below the ceiling delivering light spill on the ceiling and a smoothly graduated wall wash. Optic to incorporate intermediate brightness zones for maximum visual comfort – as Whitecroft Lighting VIVANT

vivant® 600 x 600 mist

> weblink > **VIVM**

ORDER CODES

Vivant 600 x 600 Mist	HF Gear	3 hr Emergency
T5 4 x 14W	VIVMP414	VIVMP414EMIN

Options

DALI DIMMING	Add Y after VIVMP	i.e. VIVMP Y 414
DSI DIMMING	Add D after VIVMP	i.e. VIVMP D 414
SWITCH DIMMING	Add X after VIVMP	i.e. VIVMP X 414
EASYTEST	Add suffix /ET to order code	i.e. VIVMP414/ ET
COMET	Add suffix /CT to order code	i.e. VIVMP414/ CT

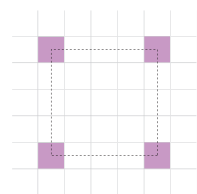


LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	465 lux	2.4m x 2.4m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

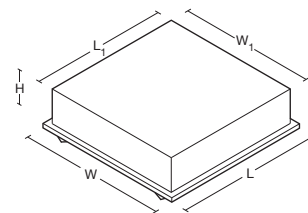
Exposed T Grids

T25 Lay in
T15 Tegular

Alugrids

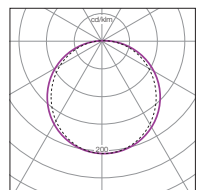
SAS AL 15/16
SAS AL 15/08

DIMENSIONS



Version	L	W	H	L ₁	W ₁	KG	KG
Exposed T	584	584	113	571	567	7.5	8.5

PHOTOMETRIC PERFORMANCE



4 x 14W T5
• LOR = 61.7%
• SHR MAX = 1.65

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.41	0.59	0.63

TO SPECIFY

Architectural semi-recessed 600 x 600, T5 luminaire with laterally ribbed opal polycarbonate TP(a) diffuser, curved to match luminance profiler radius and projecting only 28mm below the ceiling. Delivering light spill on the ceiling and a smoothly graduated wall wash – as Whitecroft Lighting VIVANT MIST

vivant® 1200 x 300

> weblink > **VIV3**

ORDER CODES

Vivant 1200 x 300	HF Gear	3 hr Emergency
T5 1 x 28W	VIVM128	VIVM128EMIN
T5 2 x 28W	VIVM228	VIVM228EMIN
T5 1 x 54W	VIVM154	VIVM154EMIN
T5 2 x 54W	VIVM254	VIVM254EMIN

Options

DALI DIMMING	Add Y after VIVM	i.e. VIVMY128
DSI DIMMING	Add D after VIVM	i.e. VIVMD128
SWITCH DIMMING	Add X after VIVM	i.e. VIVMX128
EASYTEST	Add suffix /ET to order code	i.e. VIVM128/ET
COMET	Add suffix /CT to order code	i.e. VIVM128/CT

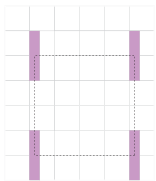


LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 28W T5	2600	24,000hrs
1 x 54W T5	4450	24,000hrs

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
2 x 28W T5	490 lux	2.4m x 2.4m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

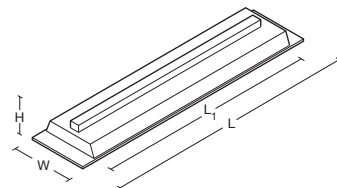
Exposed T Grids

T15 Lay in
T15/T25 Pull up

Plasterboard

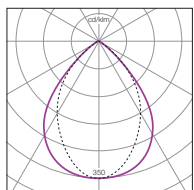
Prepared aperture

DIMENSIONS



Version	L	W	H	L ₁	Prepared Aperture	KG	KG	
Exposed T	1195	295	118	1171	279 x 1179 ± 5	7.0	8.0	

PHOTOMETRIC PERFORMANCE



1 x 54W T5
• LOR = 66.9%
• SHR MAX = 1.60

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.48	0.66	0.70

TO SPECIFY

Semi-recessed architectural T5 1200 x 300 luminaire with a concave metalized living louvre and matrix luminance profilers projecting 25mm below the ceiling delivering light spill on the ceiling and a smoothly graduated wall wash. Optic to incorporate intermediate brightness zones for maximum visual comfort – as Whitecroft Lighting VIVANT



cascade TSI

> weblink > CTSI

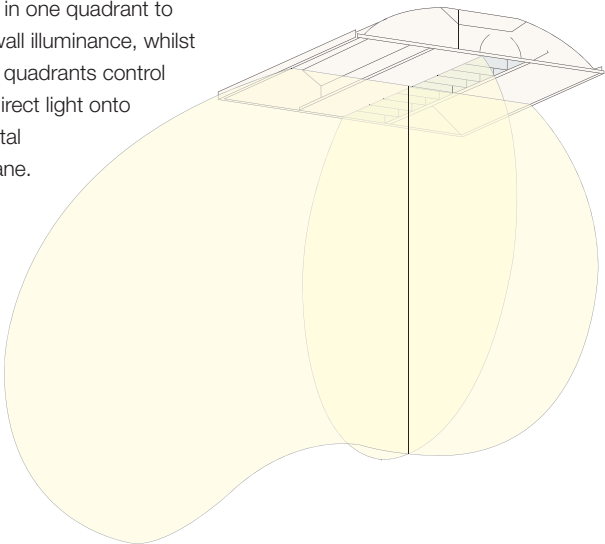
The importance of the role that lighting has to play in the health and welfare of our children cannot be underestimated. Nowhere is this more apparent than in the school environment, where lighting can have a direct and dramatic effect on educational achievement. Lighting can stimulate and energise the learning process by providing not just an attractive environment, but also by actively motivating the student.

the principle of TSI – teaching surface illumination

It is important to understand the way in which teacher and pupils interact when designing lighting schemes for classrooms. Education is not a 2-dimensional activity and even illumination must be given to all teaching surfaces, namely walls, white boards and desk surfaces alike.

Traditional office luminaires deliver desk level illumination but are not designed to illuminate a vertical surface as well as the TSI does. As classroom walls are working task areas, both the quantity and quality of light are important and add to both the functionality and ambience of the space.

Cascade TSI has an asymmetric distribution in one quadrant to maximise wall illuminance, whilst the other 3 quadrants control glare and direct light onto the horizontal working plane.



Whitecroft developed Cascade TSI (Teaching Surface Illuminance) specifically to address the problem of lighting the teaching surfaces of a classroom without the need for supplementary wall washers. Cascade TSI combines high optical performance with innovative design and not only delivers the best lit environment but also reduces energy consumption and installation costs. Cascade TSI used in conjunction with a standard Cascade luminaire provides the best possible recessed lighting solution for the classroom.

CLASSROOM COMPARATIVE LIGHTING LEVELS

	Typical 3 x 14W T5	Cascade TSI 4 x 14W T5
Average Horizontal Illuminance	327 lux	341 lux
Average Side Wall Illuminance	27%	59%
Average End Wall Illuminance	30%	48%

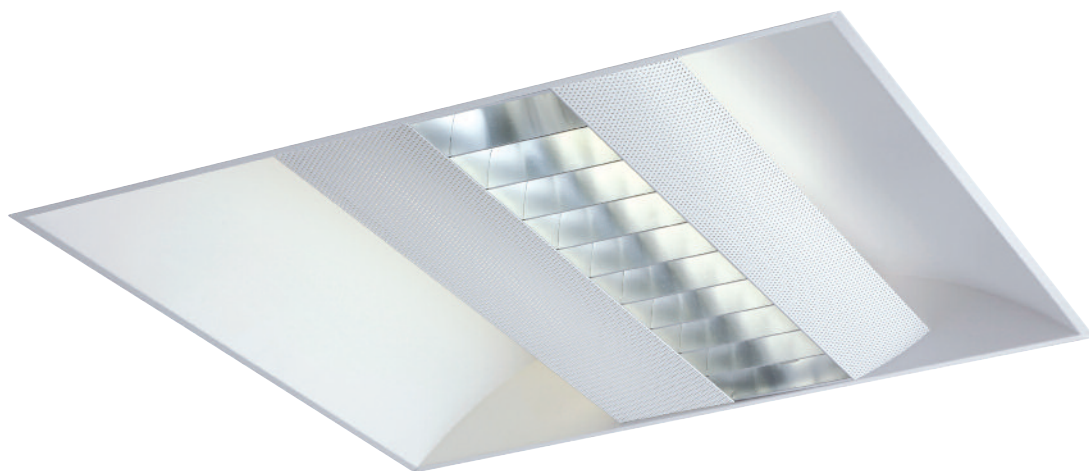
Cascade TSI puts almost twice as much light onto the walls of a classroom with a superior degree of uniformity than that of a typical symmetrical distribution luminaire.



Typical 3 x 14W T5



Cascade TSI 4 x 14W T5



cascade TSI

teaching surface illuminance luminaire

Optics

- Asymmetrical light output with one half of the luminaire providing ambient direct/indirect lighting and the other half providing wall illumination
- MIRO 5 semi-specular louvre on ambient half with perforated wings. On the wall wash side the lamp is covered by a flat perforated foil
- Lamp options:
 - 4 x 14W T5
 - 2 x 40/55W TC-L

Body

- Steel body with tightly jointed end plates finished white
- Designed to rest above 600mm x 600mm exposed T (15mm and 25mm) ceilings. Installation in plasterboard ceilings possible using optional frame



cascade TSI

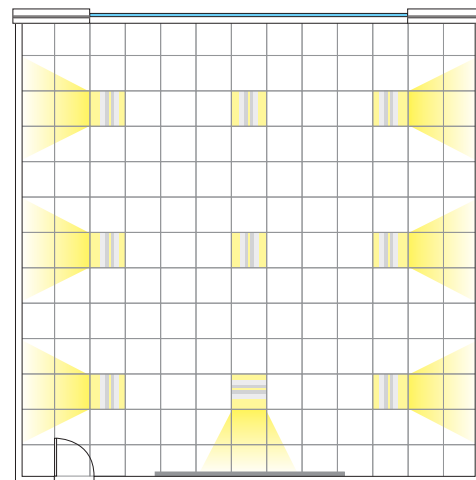
> weblink > **CTSI**

ORDER CODES

Cascade TSI	HF Gear	3 hr Emergency
T5 4 x 14W	CTSH414	CTSH414EMIN
TC-L 2 x 40W	CTSH240	CTSH240EMIN
TC-L 2 x 55W	CTSH255	CTSH255EMIN

Options

DALI DIMMING	Replace H with Y in order code	i.e. CTS Y 414
DSI DIMMING	Replace H with D in order code	i.e. CTS D 414
SWITCH DIMMING	Replace H with X in order code	i.e. CTS X 414
COMMAND 4	Replace H with Q4Y in order code	i.e. CTS Q4Y 414
COMMAND 3	Replace H with Q3Y in order code	i.e. CTS Q3Y 414
EASYTEST	Add suffix /ET to order code	i.e. CTSH414/ ET
COMET	Add suffix /CT to order code	i.e. CTSH414/ CT
PLASTERBOARD INSTALLATION FRAME		CSDPBF



Cascade TSI used in conjunction with standard Cascade in a 9 luminaire typical classroom arrangement

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 40W TC-L	3500	20,000hrs
1 x 55W TC-L	4800	20,000hrs

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

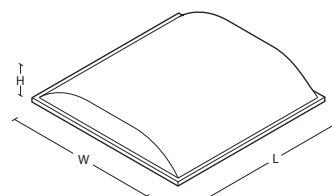
T25 Lay in

T15 Lay in

Plasterboard (Installation frame required)

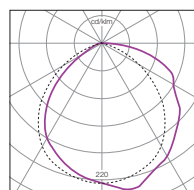
Prepared aperture

DIMENSIONS

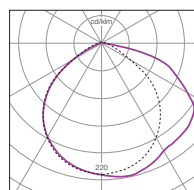


Version	L	W	H	Prepared Aperture	KG	KG
Exposed T	593	591	95	–	6.0	7.0
Plasterboard	660	660	95	625 x 625 ± 3	8.0	9.0

PHOTOMETRIC PERFORMANCE



2 x 40W TC-L
 • LOR = 59.2%
 • SHR MAX = 1.60



4 x 14W T5
 • LOR = 59.1%
 • SHR MAX = 1.66

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.42	0.58	0.62

Utilisation Factors UF(F)

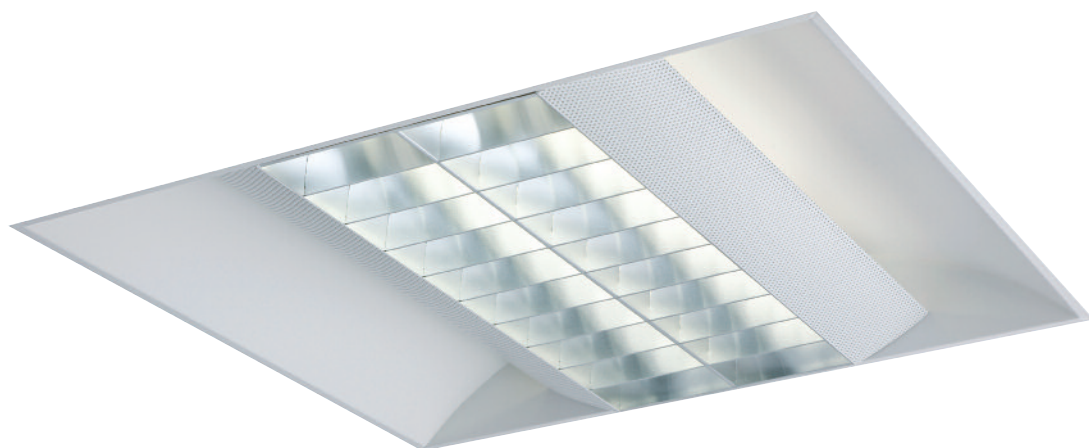
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.42	0.58	0.62

TO SPECIFY

Recessed direct/indirect fluorescent T5 module for classroom lighting. Rolled steel body finished white, with MIRO 5 louvre and perforated side panels. Asymmetrical light distribution with half of the luminaire providing 'Teaching Surface Illumination' – as Whitecroft CASCADE TSI

paversmith
managing reputations





cascade

direct/indirect recessed luminaire

Optics

- MIRO 5 zero iridescent semi-specular louvre mounted between perforated gull wings
- Single cell louvre:
 - 2 x 24/54W T5
 - 1 x 40/55W TC-L
- Twin cell louvre:
 - 4 x 14W T5
 - 2 x 40/55W TC-L
- All the above lamp options are also available with lamps concealed behind a micro perforated diffuser

Body

- Designed to rest above 15 and 25mm exposed T ceilings. Installation in plasterboard ceilings possible using optional frame
- Fully flanged rolled body with end plates tightly jointed for a rigid construction, finished white
- Air handling option on louvre version, 30 litres per second



cascade louvre

> weblink > CSDL

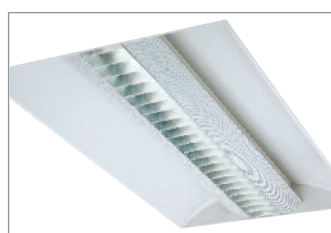
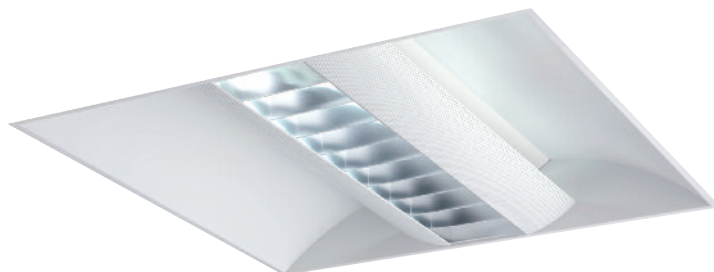
ORDER CODES

Cascade Single Cell Louvre	HF Gear	3 hr Emergency
T5 2 x 24W	CSDWH224	CSDWH224EMIN
T5 2 x 54W	CSDWH254	CSDWH254EMIN
TC-L 1 x 40W	CSDWH140	CSDWH140EMIN
TC-L 1 x 55W	CSDWH155	CSDWH155EMIN

Cascade Twin Cell Louvre	HF Gear	3 hr Emergency
T5 4 x 14W	CSDWH414	CSDWH414EMIN
TC-L 2 x 40W	CSDWH240	CSDWH240EMIN
TC-L 2 x 55W	CSDWH255	CSDWH255EMIN

Options

DALI DIMMING	Replace H with Y in order code	i.e. CSDWY224
DSI DIMMING	Replace H with D in order code	i.e. CSDWD224
SWITCH DIMMING	Replace H with X in order code	i.e. CSDWX224
COMMAND 4	Replace H with Q4Y in order code	i.e. CSDWQ4Y224
COMMAND 3	Replace H with Q3Y in order code	i.e. CSDWQ3Y224
EASYTEST	Add suffix /ET to order code	i.e. CSDWH224/ET
COMET	Add suffix /CT to order code	i.e. CSDWH224/CT
AIR HANDLING	Add suffix /AH to order code	i.e. CSDWH224/AH
PLASTERBOARD INSTALLATION FRAME		CSDPBF



Cascade 2 x 54W single cell louvre



Cascade twin cell louvre

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

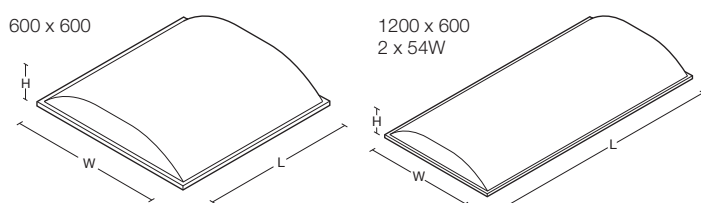
T25 Lay in

T15 Lay in

Plasterboard (Requires installation frame)

Prepared aperture (600 x 600 only)

DIMENSIONS



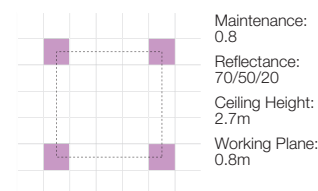
Version	L	W	H	Prepared Aperture	KG	KG
Exposed T	593	595	95	—	4.5	5.5
Plasterboard	660	660	95	625 x 625 ⁻³ / ₊₃	6.5	7.5
2 x 54W Version	1193	595	95	—	8.0	9.0

LAMP PERFORMANCE

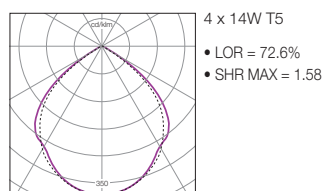
Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 24W T5	1750	24,000hrs
1 x 54W T5	4450	24,000hrs
1 x 40W TC-L	3500	20,000hrs
1 x 55W TC-L	4800	20,000hrs

PERFORMANCE GUIDE

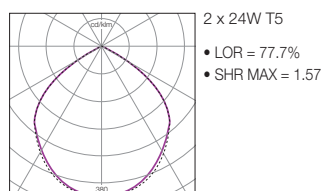
Lamps	Illuminance	Spacing
4 x 14W T5	510 lux	2.4m x 2.4m



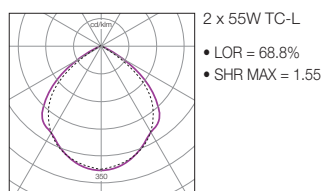
PHOTOMETRIC PERFORMANCE



Utilisation Factors UF(F)						
Room Reflectance			Room Index			
C	W	F	1.00	3.00	5.00	
0.70	0.50	0.20	0.58	0.75	0.78	



Utilisation Factors UF(F)						
Room Reflectance			Room Index			
C	W	F	1.00	3.00	5.00	
0.70	0.50	0.20	0.61	0.79	0.84	



Utilisation Factors UF(F)						
Room Reflectance			Room Index			
C	W	F	1.00	3.00	5.00	
0.70	0.50	0.20	0.56	0.71	0.74	

TO SPECIFY

Direct/indirect recessed T5 or TCL luminaire. Single or twin cell MIRO 5 louvre with perforated wings mounted in a steel body painted white – as Whitecroft Lighting CASCADE

cascade micro perforated

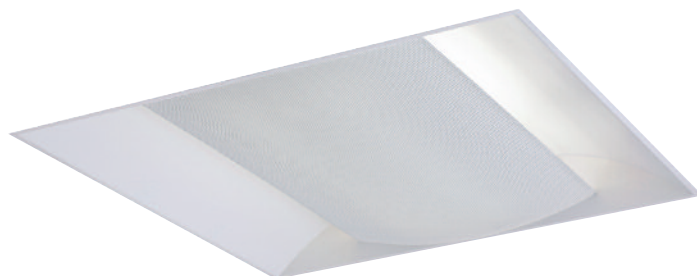
> weblink > **CSDP**

ORDER CODES

Cascade Micro Perforated	HF Gear	3 hr Emergency
T5 2 x 24W	CSDPH224	CSDPH224EMIN
T5 4 x 14W	CSDPH414	CSDPH414EMIN
TC-L 1 x 40W	CSDPH140	CSDPH140EMIN
TC-L 1 x 55W	CSDPH155	CSDPH155EMIN
TC-L 2 x 40W	CSDPH240	CSDPH240EMIN
TC-L 2 x 55W	CSDPH255	CSDPH255EMIN

Options

DALI DIMMING	Replace H with Y in order code	i.e. CSDPY224
DSI DIMMING	Replace H with D in order code	i.e. CSDPD224
SWITCH DIMMING	Replace H with X in order code	i.e. CSDPX224
EASYTEST	Add suffix /ET to order code	i.e. CSDPH224/ ET
COMET	Add suffix /CT to order code	i.e. CSDPH224/ CT
PLASTERBOARD INSTALLATION FRAME		CSDPBF

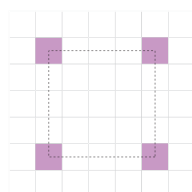


LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 24W T5	1750	24,000hrs
1 x 40W TC-L	3500	20,000hrs
1 x 55W TC-L	4800	20,000hrs

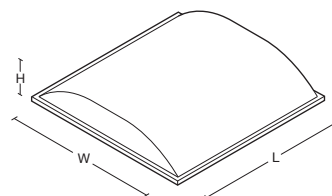
PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	365 lux	2.4m x 2.4m



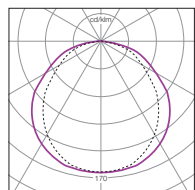
Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

DIMENSIONS

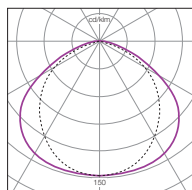


Version	L	W	H	Prepared Aperture	KG	KG
Exposed T	593	595	95	—	4.5	5.5
Plasterboard	660	660	95	625 x 625 ± 3	6.5	7.5

PHOTOMETRIC PERFORMANCE



1 x 55W TC-L
• LOR = 47%
• SHR MAX = 1.66



2 x 55W TC-L
• LOR = 42%
• SHR MAX = 1.74

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.32	0.46	0.49

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.29	0.41	0.44

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T25 Lay in

T15 Lay in

Plasterboard (Requires installation frame)

Prepared aperture

TO SPECIFY

Direct/indirect recessed T5 or TC-L luminaire. Micro perforated steel diffuser mounted in a steel body painted white – as Whitecroft Lighting CASCADE

cascade retail

> weblink > **CSDR**

Optics

- Lamp options:
 - 2 x 55W TC-L
 - 2 x 54W T5
- Optic incorporates a micro dot zero iridescent semi-specular louvre between perforated gull wings

Body

- Steel body finished white
- Designed to rest above 15 and 25mm exposed T ceilings
- Installation in plasterboard ceilings using an optional frame (2 x 55W TC-L version only)



ORDER CODES

Cascade Retail Louvre	HF Gear	3 hr Emergency
TC-L 2 x 55W	CSDWH255RLV	CSDWH255RLVEMIN
T5 2 x 54W	CSDWH254RLV	CSDWH254RLVEMIN

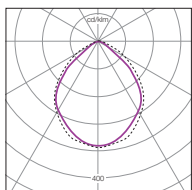
Options

DALI DIMMING	Replace H with Y in order code	i.e. CSDW Y 255RLV
DSI DIMMING	Replace H with D in order code	i.e. CSDW D 255RLV
SWITCH DIMMING	Replace H with X in order code	i.e. CSDW X 255RLV
EASYTEST	Add suffix /ET to order code	i.e. CSDWH255RLV/ ET
COMET	Add suffix /CT to order code	i.e. CSDWH255RLV/ CT
PLASTERBOARD INSTALLATION FRAME (2 x 55W only)		CSDPBF

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 55W TC-L	4800	20,000hrs
1 x 54W T5	4450	24,000hrs

PHOTOMETRIC PERFORMANCE



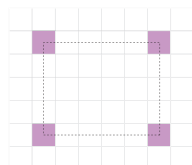
- 2 x 55W TC-L
- LOR = 65.7%
- SHR MAX = 1.52

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.52	0.67	0.71

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
2 x 55W TC-L	830 lux	2.4m x 3.0m



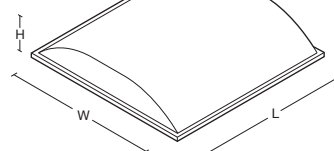
Maintenance: 0.8
 Reflectance: 70/50/20
 Ceiling Height: 2.7m
 Working Plane: 0.8m



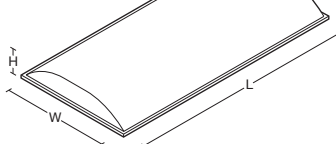
Cascade retail 1200

DIMENSIONS

600 x 600



1200 x 600
2 x 54W



Version	L	W	H	Prepared Aperture	KG	KG
2 x 55W TC-L Exposed T	593	595	95	–	4.5	5.5
2 x 54W T5 Exposed T	1193	595	95	–	8.0	9.0
2 x 55W TC-L Plasterboard	660	660	95	625 x 625 ⁺³ ₋₃	6.5	7.5

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T25 Lay in

T15 Lay in

Plasterboard (Requires installation frame)

Prepared aperture (600 x 600 only)

TO SPECIFY

Direct/indirect recessed luminaire for 2 x 55W TC-L or 2 x 54W T5 lamps.
 Micro dot, zero iridescent louvre with perforated wings mounted in a steel body painted white – as Whitecroft Lighting CASCADE RETAIL

cirrus

direct/indirect recessed luminaire

> weblink > **CIR3**

Optics

- Lamp options:
 - 1 or 2 x 28/54W T5
- Semi-specular retained louvre with perforated wings

Body

- Steel body finished white
- Designed to rest on a 300 x 1200mm exposed T 15mm ceiling and align with tegular tiles
- Designed to rest above exposed T 25mm ceilings



ORDER CODES

Cirrus	HF Gear	3 hr Emergency
T5 1 x 28W	CRSH128	CRSH128EMIN
T5 2 x 28W	CRSH228	CRSH228EMIN
T5 1 x 54W	CRSH154	CRSH154EMIN
T5 2 x 54W	CRSH254	CRSH254EMIN

Options

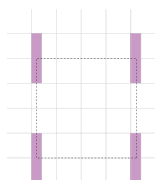
DALI DIMMING	Replace H with Y in order code	i.e. CRS Y 128
DSI DIMMING	Replace H with D in order code	i.e. CRS D 128
SWITCH DIMMING	Replace H with X in order code	i.e. CRS X 128
COMMAND 4	Replace H with Q4Y in order code	i.e. CRS Q4Y 128
EASYTEST	Add suffix /ET to order code	i.e. CRSH128/ ET
COMET	Add suffix /CT to order code	i.e. CRSH128/ CT

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 28W T5	2600	24,000hrs
1 x 54W T5	4450	24,000hrs

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
2 x 28W T5	480 lux	2.4m x 2.4m



Maintenance: 0.8
 Reflectance: 70/50/20
 Ceiling Height: 2.7m
 Working Plane: 0.8m

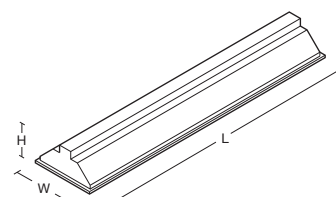
CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

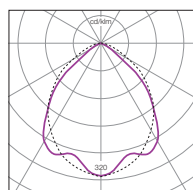
T25 Lay in
 T15 Tegular

DIMENSIONS



L	W	H	KG	KG
1184	284	133	5.0	6.0

PHOTOMETRIC PERFORMANCE



2 x 28W T5
 • LOR = 61.8%
 • SHR MAX = 1.53

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.50	0.64	0.67

TO SPECIFY

Fully recessed T5 direct/indirect architectural luminaire with perforated opal lined gull winged semi-specular louvre giving diffuse illumination – as Whitecroft Lighting CIRRUS

spear

recessed louvred luminaire

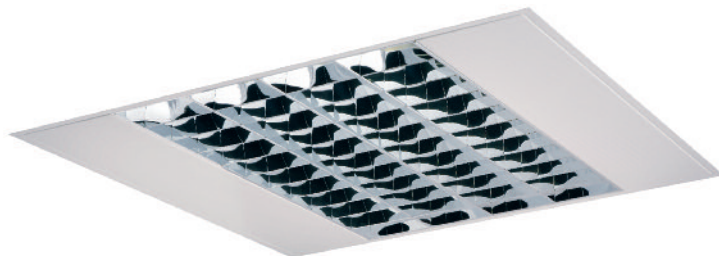
> weblink > **SPER**

Optics

- Positively retained semi-specular louvre
- Lamp options:
 - 3 or 4 x 14W T5

Body

- Steel body finished white
- For exposed T or plasterboard ceilings
- Air handling 30 litres per second



ORDER CODES

Spear	HF Gear	3 hr Emergency
T5 3 x 14W	S2W5H314	S2W5H314EMIN
T5 4 x 14W	S2W5H414	S2W5H414EMIN

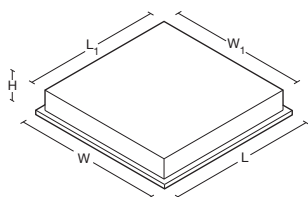
Options

DALI DIMMING	Replace H with Y in order code	i.e. S2W5 Y 314
DSI DIMMING	Replace H with D in order code	i.e. S2W5 D 314
SWITCH DIMMING	Replace H with X in order code	i.e. S2W5 X 314
COMMAND 4	Replace H with Q4Y in order code	i.e. S2W5 Q4Y 314
EASYTEST	Add suffix /ET to order code	i.e. S2W5H314/ ET
COMET	Add suffix /CT to order code	i.e. S2W5H314/ CT
UNIVERSAL BRACKET KIT FOR PLASTERBOARD CEILINGS AND TEGULAR TILES S2BKIT		

LAMP PERFORMANCE

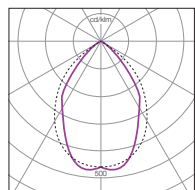
Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs

DIMENSIONS



Version	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Exposed T/Plasterboard	595	595	61	572	572	583 x 583 ^{+3/-3}	4.5	5.5

PHOTOMETRIC PERFORMANCE



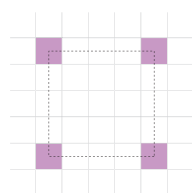
- 3 x 14W T5
- LOR = 73%
- SHR MAX = 1.42

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.62	0.76	0.79

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	500 lux	2.4m x 2.4m



Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T25 Lay in
T15 Lay in
T15/T25 Pull up (Bracket kit required)

Plasterboard

Prepared aperture (Bracket kit required)

TO SPECIFY

Fully recessed T5 luminaire. Positively retained wedge louvre with full perimeter flange and full depth profiled end blade – as Whitecroft Lighting SPEAR

spear profile

semi-recessed louvred luminaire

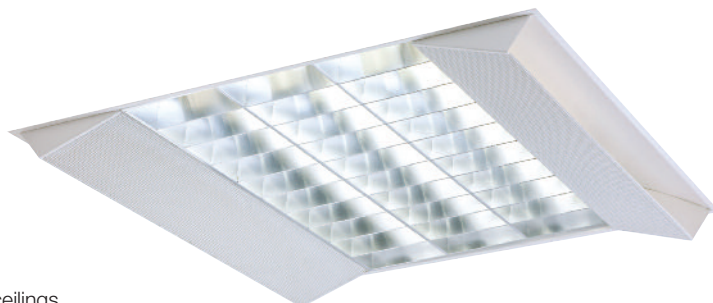
> weblink > **SPP**

Optics

- Spring retained MIRO 5 zero iridescent semi-specular louvre mounted between perforated luminance profilers
- Lamp options:
 - 3 or 4 x 14W T5, 3 x 24W T5

Body

- Steel body finished white
- Designed to fit T15 tegular ceilings aligning with tiles and as a lay in on T25 ceilings
- Air handling 30 litres per second



ORDER CODES

Spear Profile	HF Gear	3 hr Emergency
T5 3 x 14W	SPPH314	SPPH314EMIN
T5 4 x 14W	SPPH414	SPPH414EMIN
T5 3 x 24W	SPPH324	SPPH324EMIN

Options

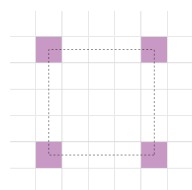
DALI DIMMING	Replace H with Y in order code	i.e. SPP Y 314
DSI DIMMING	Replace H with D in order code	i.e. SPP D 314
SWITCH DIMMING	Replace H with X in order code	i.e. SPP X 314
COMMAND 4	Replace H with Q4Y in order code	i.e. SPP Q4Y 314
EASYTEST	Add suffix /ET to order code	i.e. SPPH314/ ET
COMET	Add suffix /CT to order code	i.e. SPPH314/ CT

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 24W T5	1750	24,000hrs

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	530 lux	2.4m x 2.4m



Maintenance: 0.8
 Reflectance: 70/50/20
 Ceiling Height: 2.7m
 Working Plane: 0.8m

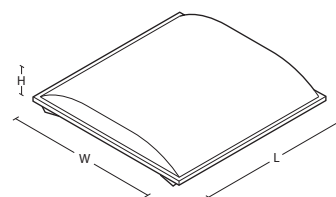
CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

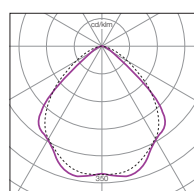
T25 Lay in
 T15 Tegular

DIMENSIONS

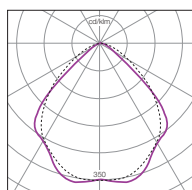


L	W	H	KG	KG
584	584	81	7.0	8.0

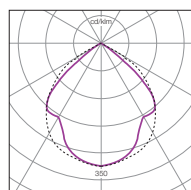
PHOTOMETRIC PERFORMANCE



3 x 14W T5
 • LOR = 74%
 • SHR MAX = 1.71



3 x 24W T5
 • LOR = 76.5%
 • SHR MAX = 1.70



4 x 14W T5
 • LOR = 68%
 • SHR MAX = 1.58

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.60	0.76	0.80

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.62	0.79	0.83

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.55	0.70	0.73

TO SPECIFY

Recessed architectural T5 luminaire. Fully flanged and jointed rigid body finished white with semi-specular MIRO 5 zero iridescent louvre mounted between matrix luminance profilers projecting no more than 30mm below the ceiling line – as Whitecroft Lighting SPEAR PROFILE

spear diffuser

IP40/IP20 recessed diffuser luminaire

> weblink > **S2FP**

Optics

- Framed flat sheet TP(a) fire resistant prismatic diffuser, positively retained by wishbone side springs
- Smooth face to room side for easy cleaning
- Lamp options:
 - 3 or 4 x 14/24W T5

Body

- Steel body finished white
- IP40 to the void with frame in place, IP20 with frame removed
- Designed as a lay in on T15 and T25 ceilings
- Ceiling brackets required for prepared aperture ceilings or tegular tiles



ORDER CODES

Spear Diffuser	HF Gear	3 hr Emergency
T5 3 x 14W	SFPH314	SFPH314EMIN
T5 4 x 14W	SFPH414	SFPH414EMIN
T5 3 x 24W	SFPH324	SFPH324EMIN
T5 4 x 24W	SFPH424	SFPH424EMIN

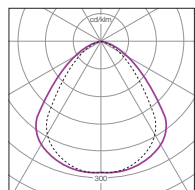
Options

DALI DIMMING	Replace H with Y in order code	i.e. SFP Y 314
DSI DIMMING	Replace H with D in order code	i.e. SFP D 314
SWITCH DIMMING	Replace H with X in order code	i.e. SFP X 314
EASYTEST	Add suffix /ET to order code	i.e. SFPH314/ ET
COMET	Add suffix /CT to order code	i.e. SFPH314/ CT
4 SLIDING BRACKETS FOR PLASTERBOARD CEILINGS AND TEGULAR TILES BCNSB		

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 24W T5	1750	24,000hrs

PHOTOMETRIC PERFORMANCE



- 4 x 14W T5
- LOR = 63.6%
 - SHR MAX = 1.63

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.50	0.64	0.68



CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

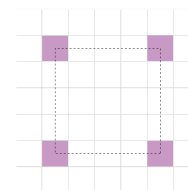
T25 Lay in
T15 Lay in
T15/T25 Pull up (Sliding brackets required)

Plasterboard

Prepared aperture (Sliding brackets required)

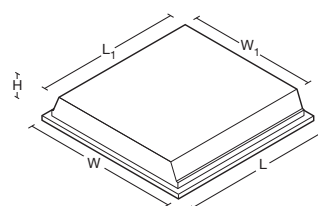
PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	490 lux	2.4m x 2.4m



Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 2.7m
Working Plane: 0.8m

DIMENSIONS



Version	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Exposed T/Plasterboard	595	595	97	575	575	576 x 576 ⁻³ ₊₃	5.0	6.0

TO SPECIFY

Rigid fully boxed and jointed T5 recessed luminaire with positively retained framed TP(a) diffuser to be suitable for mounting above or below a T15 or T25 exposed T or in prepared aperture ceilings – as Whitecroft Lighting SPEAR DIFFUSER

broadspread contenda

recessed T8 louvre or diffuser luminaire

> weblink > **BCN**

Optics

- Specular louvre or TP(a) fire resistant prismatic diffuser, positively retained by wishbone springs
- Lamp options:
 - 3 or 4 x 18W T8

Body

- Steel body finished white
- Designed to fit T15, T25 or plasterboard ceilings
- Air handling 30 litres per second (louvre version only)
- Ceiling brackets required for prepared aperture ceilings or tegular tiles



ORDER CODES

Broadspread Contenda (Louvre)	HF Gear	3 hr Emergency
T8 3 x 18W	BCNW2H318	BCNW2H318EMIN
T8 4 x 18W	BCNW2H418	BCNW2H418EMIN

Broadspread Contenda (Diffuser)	HF Gear	3 hr Emergency
T8 3 x 18W	BCNFPH318	BCNFPH318EMIN
T8 4 x 18W	BCNFPH418	BCNFPH418EMIN

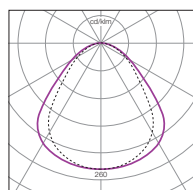
Options

DALI DIMMING	Replace H with Y in order code	i.e. BCNW2 Y 318
DSI DIMMING	Replace H with D in order code	i.e. BCNW2 D 318
SWITCH DIMMING	Replace H with X in order code	i.e. BCNW2 X 318
EASYTEST	Add suffix /ET to order code	i.e. BCNW2H318/ ET
COMET	Add suffix /CT to order code	i.e. BCNW2H318/ CT
4 SLIDING BRACKETS FOR PLASTERBOARD CEILINGS AND TEGULAR TILES BCNSB		

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 18W T8	1350	15,000hrs

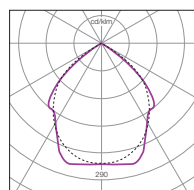
PHOTOMETRIC PERFORMANCE



- 4 x 18W T8 Diffuser
- LOR = 59.9%
 - SHR MAX = 1.63

Utilisation Factors UF(F)

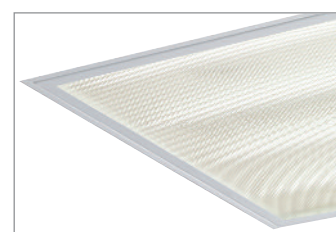
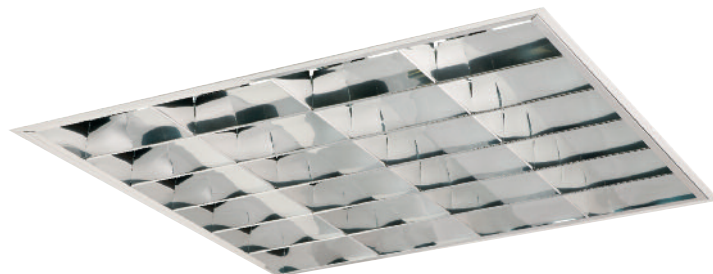
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.47	0.60	0.64



- 4 x 18W T8 Louvre
- LOR = 56.7%
 - SHR MAX = 1.53

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.48	0.59	0.62



Diffuser option

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

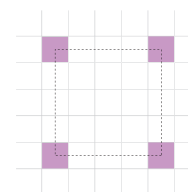
- T25 Lay in
- T15 Lay in
- T15/T25 Pull up (Sliding brackets required)

Plasterboard

Prepared aperture (Sliding brackets required)

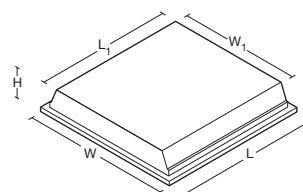
PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 18W T8	500 lux	2.4m x 2.4m



Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 2.7m
Working Plane: 0.8m

DIMENSIONS



Version	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Exposed T/Plasterboard	595	595	97	575	575	576 x 576 ± 3	5.0	6.0

TO SPECIFY

Rigid fully boxed and jointed 3/4 T8 recessed luminaire with positively retained louvre or framed TP(a) diffuser to be suitable for mounting above or below a T15 or T25 exposed T or in prepared aperture ceilings – as Whitecroft Lighting BROADSPREAD CONTENTDA



hygiene

IP54/IP20 recessed luminaire

> weblink > **HYG**

Optics

- Screw retained frame with Tp(a) Polycarbonate diffuser. Smooth face on the room side for easy cleaning
- Lamp options:
 - 3 or 4 x 14W T5
 - 4 x 24/28W T5

Body

- Steel body finished white, with bonded diffuser
- Concealed screw fixing detail
- IP54 to the void with the front frame in place, IP20 with the front frame removed
- Suitable for T15 and T25 exposed T, Spring T and prepared aperture ceilings



ORDER CODES

Hygiene	HF Gear	3 hr Emergency
T5 3 x 14W	HYGP314	HYGP314EMIN
T5 4 x 14W	HYGP414	HYGP414EMIN
T5 4 x 24W	HYGP424	HYGP424EMIN
T5 4 x 28W	HYGP428	HYGP428EMIN

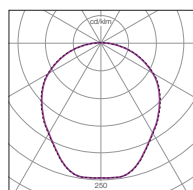
Options

DALI DIMMING	Add Y after HYPG	i.e. HYPGY314
DSI DIMMING	Add D after HYPG	i.e. HYPGD314
SWITCH DIMMING	Add X after HYPG	i.e. HYPGX314
EASYTEST	Add suffix /ET to order code	i.e. HYPG314/ET
COMET	Add suffix /CT to order code	i.e. HYPG314/CT
RECESSING PANEL	To maintain IP54 on spring T ceilings Add suffix R to order code	i.e. HYPG314R
PLASTERBOARD INSTALLATION KIT		LUMAFIXBKTKIT

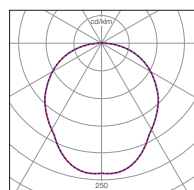
LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1200	24,000hrs
1 x 24W T5	1750	24,000hrs
1 x 28W T5	2600	24,000hrs

PHOTOMETRIC PERFORMANCE



- LOR = 61.5%
- SHR MAX = 1.51



- LOR = 59.7%
- SHR MAX = 1.51

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.46	0.66	0.71

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.45	0.64	0.69



CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T15/T25 Pull up

Spring T Grids (Optional recessing panel available)

SAS – 150/120*

Armstrong – Orcal 1800/3000*

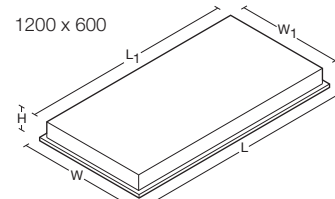
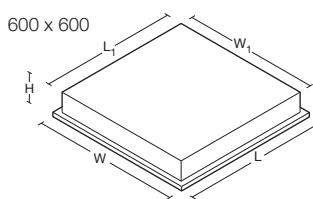
Burgess – Clip in/Abar*

Plasterboard

Prepared aperture*

*Adjustable installation kit required

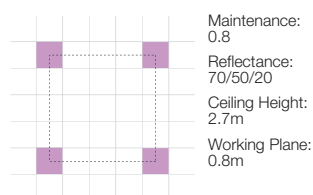
DIMENSIONS



Version	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
600 x 600	599	599	106	570	540	550 x 550 ⁻³ / ₊₃	6.0	7.0
1200 x 600	1199	599	106	1170	540	550 x 1150 ⁻³ / ₊₃	7.0	8.0

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 14W T5	450 lux	2.4m x 2.4m



TO SPECIFY

Recessed T5 modular luminaire with steel body and diffuser frame finished white, sealed to IP54 on the front face – as Whitecroft Lighting HYGIENE

broadspread asymmetric

asymmetric luminaire ideal for corridors

> weblink > **BASM**

Optics

- Asymmetric cross blade louvre
- Lamp options:
 - 1 x 54W T5
 - additional 7W TC-S night light option for healthcare applications

Body

- Steel body finished white
- Designed to fit exposed T15, T25 or plasterboard ceilings



ORDER CODES

Broadspread Asymmetric	HF Gear	3 hr Emergency
T5 1 x 54W	BASMH154	BASMH154EMIN
T5 1 x 54W with Nightlight	BASMH154NL	BASMH154NLEMIN

Options

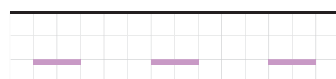
DALI DIMMING	Replace H with Y in order code	i.e. BASM Y 154
DSI DIMMING	Replace H with D in order code	i.e. BASM D 154
SWITCH DIMMING	Replace H with X in order code	i.e. BASM X 154
EASYTEST	Add suffix /ET to order code	i.e. BASMH154/ ET
COMET	Add suffix /CT to order code	i.e. BASMH154/ CT
PREPARED APERTURE INSTALLATION KIT		BASYSBKIT

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 54W T5	4450	24,000hrs

PERFORMANCE GUIDE

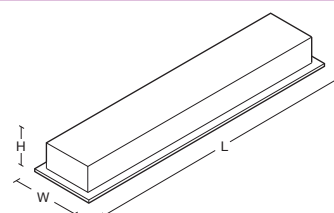
Lamps	Illuminance	Spacing
1 x 54W T5	180 lux	3.6m



Maintenance: 0.8	Ceiling Height: 2.7m
Reflectance: 70/50/20	Working Plane: 0.0m

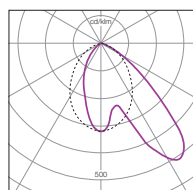


DIMENSIONS



Version	L	W	H	Prepared Aperture	KG	KG
Exposed T/Plasterboard	1197	197	80	175 x 1175 -3 +3	3.5	4.5

PHOTOMETRIC PERFORMANCE



- 1 x 54W T5
- LOR = 65.4%
- SHR MAX = 1.66

Utilisation Factors UF(F)

Room Reflectance	Room Index			
C	W	F	1.00	3.00
0.70	0.50	0.20	0.51	0.67
				0.70

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

- T25 Lay in
- T15 Lay in
- T15/T25 Pull up (Installation kit required)

Plasterboard

Prepared aperture (Installation kit required)

TO SPECIFY

Asymmetric corridor T5 luminaire, with 7W TC-S night light option. Rigid and jointed steel body and screwless steel front frame, finished white. Designed to fit both exposed T-bar or plasterboard ceilings & including close wall mounting up to 40mm. Positively retained asymmetric cross-blade louvre – as Whitecroft Lighting BROADSPREAD ASYMMETRIC

gibraltar

semi-recessed linear diffuser luminaire

> weblink > **GIBY**

Optics

- Specular aluminium reflector with easily cleaned smooth faced internally reeded polycarbonate diffuser
- Lamp options:
 - 1 x 28/54W T5

Body

- Steel body finished white
- Designed to fit exposed T15, T25 or plasterboard ceilings



ORDER CODES

Gibraltar	HF Gear	3 hr Emergency
T5 1 x 28W	GIBYH128	GIBYH128EM
T5 1 x 54W	GIBYH154	GIBYH154EM

Options

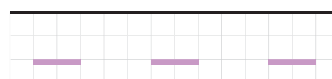
DALI DIMMING	Replace H with Y in order code	i.e. GIBY Y 128
DSI DIMMING	Replace H with D in order code	i.e. GIBY D 128
SWITCH DIMMING	Replace H with X in order code	i.e. GIBY X 128
EASYTEST	Add suffix /ET to order code	i.e. GIBYH128/ ET
COMET	Add suffix /CT to order code	i.e. GIBYH128/ CT
PLASTERBOARD INSTALLATION KIT		LUMAFIXBKTKIT

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 54W T5	4450	24,000hrs
1 x 28W T5	2600	24,000hrs

PERFORMANCE GUIDE

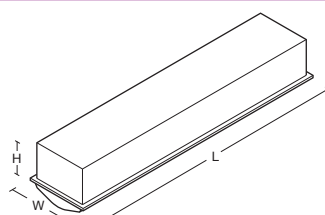
Lamps	Illuminance	Spacing
1 x 54W T5	190 lux	3.0m



Maintenance: 0.8	Ceiling Height: 2.7m
Reflectance: 70/50/20	Working Plane: 0.0m

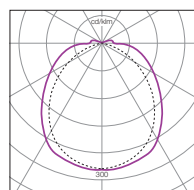


DIMENSIONS



Version	L	W	H	Prepared Aperture	KG	KG
Exposed T/Plasterboard	1199	93	68	1191 x 84 ₃	2.5	3.0

PHOTOMETRIC PERFORMANCE



- 1 x 28W T5
- LOR = 92%
- SHR MAX = 1.60

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.62	0.86	0.93

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

- T25 Lay in
- T15 Lay in

Plasterboard

Prepared aperture (Installation kit required)

TO SPECIFY

T5 linear recessed luminaire with smooth easily cleanable front face and internally reeded polycarbonate diffuser. Diffuser to be positively retained. Rigid steel body to incorporate specular reflector and removable gear-tray with integral emergency and accommodate either exposed T or prepared aperture ceilings – as Whitecroft Lighting GIBALTAR