



recessed



life M 130



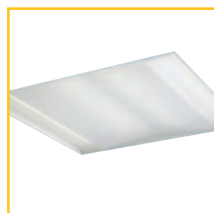
softlighter 134



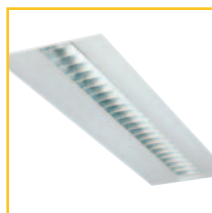
cascade edge 136



duo² centre optic 142



duo² side optic 146



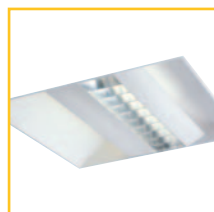
duo² 1200 linear 147



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LED ambient lighting

Life M brings LED technology to the workplace. The ever improving performance of LED solutions allows them to be used not only for display and effect lighting, but now in modular ambient applications as well.

Improving the lit environment

Life M sets new standards in ambient lighting solutions. The soft glare-free ambience created by Life M will enhance any application. A unique hexaprism diffuser ensures even illumination without the brightness traditionally associated with LED solutions. This leads to improved cylindrical illuminance, resulting in better modelling and facial recognition.

Quality and Compliance Assured

Life M delivers quality and compliance in every area. Single bin LED sets ensure a consistent 4000K colour temperature, whilst the uniform diffusion of light delivers surface brightness below 3,000Cd/m² and eliminates drop off in illumination commonly found in T5 solutions. This enables Life M to meet the lighting quality standards laid out in EN12464.

Delivering Energy Savings

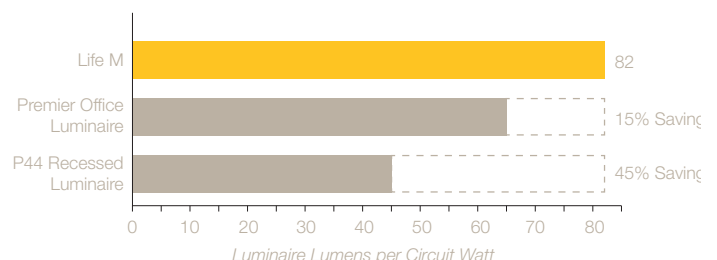
Premier Commercial Office Luminaires

LED solutions are primarily employed for energy saving. Premier T5 recessed office luminaires can deliver 65 luminaire lumens per circuit watt. Life M, delivering 74 luminaire lumens per watt, will achieve energy savings of 10%.

IP44 Recessed Diffuser Luminaires

For lighting applications requiring IP44 protection, typical T5 diffuser luminaires deliver 45 luminaire lumens per watt. Life M, offering IP44 protection as standard will deliver energy savings of up to 40%.

Furthermore, integrated DALI lighting controls can further reduce energy load, allowing compliance with the higher levels of BREEAM.







Optics

- Precise pattern Hexaprism optic for all-round glare control and perfect uniformity
- No drop off of illumination commonly found in fluorescent luminaires at lamp ends or between lamps
- 4100 lumen 50W LED light engine
- 1200 x 300mm is 3800 lumens
- Surface brightness below 3,000cd/m² for use in VDT areas
- 50,000 hour life
- Up to 82 luminaire lumens per circuit watt

Body

- Steel body finished white
- Shallow body profile
- IP44 protection as standard
- For 600 x 600mm or 1200 x 300mm grid ceilings
- Recessed mounted

life M

Order Codes

Life M 600 x 600 Hexaprism Optic DALI 3hr Emergency
4100 Lumen 4000K LM6Y14KP LM6Y24KPEM

Life M 1200 x 300 Hexaprism Optic DALI 3hr Emergency
3800 Lumen 4000K LM12Y34KP LM12Y44KPEM

Options

EASYTEST Add suffix /ET i.e. LM6Y24KP/ET
COMEPS Add suffix /EP i.e. LM6Y24KP/EP



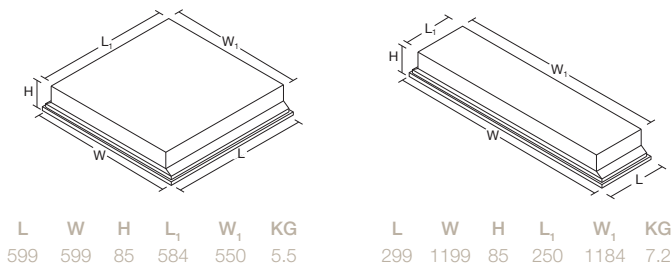
LED Light Engine

Ceiling Integration

Exposed T Grids
T15/T25 Pull up

Spring T Grids
SAS – 150/120
Armstrong – Orcal 1800/3000
Burgess – Clip in/A bar

Dimensions

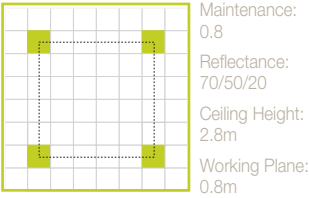


LED Performance

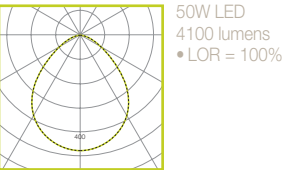
Colour Temp Ra (CRI) Life Expectancy Colour Consistency
4000K ≥ 80 L₇₀ (50,000hrs) MacAdam 4 SDCM

Performance Guide

Lamps Illuminance Spacing
50W LED 420 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 0.78 1.00 1.06

To Specify

Recessed LED 600 x 600mm or 1200 x 300mm luminaire with slimline steel body and Hexaprism optic for all-round glare control. Surface brightness to be below 3,000cd/m² as per Whitecroft Lighting LIFE M



Optics

- Precise pattern Hexaprism optic for all-round glare control and maximum efficiency
- Intermediate Brightness Zone technology using Satine Acrylic material
- Single cell hexaprism light source options:
 - LED 1950 Lumen (25W)
 - 2 x 20W T5 ECO
 - 1 x 55W TC-L Amalgam
- Twin cell hexaprism light source options:
 - LED 3750 Lumen (46W)
 - 4 x 14W T5
 - 2 x 20W T5 ECO
 - 2 x 40W TC-L Amalgam
 - 2 x 55W TC-L Amalgam

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
- Air handling:
 - 20L/sec for 2 x 20W
 - 30L/sec for all other variants



Softlighter Single Cell



COM4 Integration

softlighter

Order Codes

Softlighter Single Cell	HF Gear	3 hr Emergency
LED 1950 Lumen (25W)*	SLSY17PXT	SLSY17PXTEM
T5 2 x 20W ECO	SFSH220PXT	SFSH220PXTEM
TC-L 1 x 55W (Amalgam)	SFSH155PXT	SFSH155PXTEM

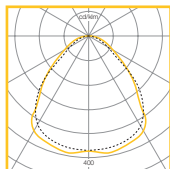
Softlighter Twin Cell	HF Gear	3 hr Emergency
LED 3750 Lumen (46W)*	SLTY35PXT	SLTY35PXTEM
T5 4 x 14W	SFTH414PXT	SFTH414PXTEM
T5 2 x 20W ECO	SFTH220PXT	SFTH220PXTEM
TC-L 2 x 40W (Amalgam)	SFTH240PXT	SFTH240PXTEM
TC-L 2 x 55W (Amalgam)	SFTH255PXT	SFTH255PXTEM

Options

DALI / SWITCH DIMMING	Replace H with Y	i.e. SFSY220PXT
EASYTEST	Add suffix /ET	i.e. SFSH220PXT/ET
COMEPS	Add suffix /EP	i.e. SFSH220PXT/EP
COMMAND 4	Replace H with Q4Y	i.e. SFSQ4Y220PXT
COMET	Add suffix /CT	i.e. SFSH220PXT/CT
SPRING T INTEGRATION	Replace XT with ST	i.e. SFSH220PST
PLASTERBOARD INSTALLATION FRAME		SFTPBF

*Note: DALI Dimming as standard on LED version

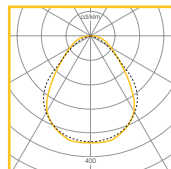
Photometric Performance



2 x 20W T5 Twin
• LOR = 86.6%
• SHR MAX = 1.61

Utilisation Factors UF(F)

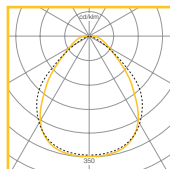
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.67	0.87	0.92



1 x 55W TC-L
• LOR = 77%
• SHR MAX = 1.52

Utilisation Factors UF(F)

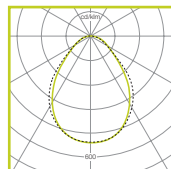
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.57	0.75	0.80



2 x 40W TC-L
• LOR = 72.8%
• 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	0.57	0.73	0.77



46W LED
3750 lumens
• LOR = 100%
• SHR MAX = 1.40

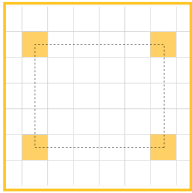
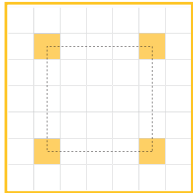
Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.76	0.10	1.06

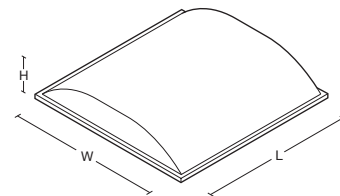
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs
1 x 20W T5 ECO	1650	21,000hrs
1 x 40W TC-L (Amalgam)	3500	20,000hrs
1 x 55W TC-L (Amalgam)	4800	20,000hrs

Performance Guide

Lamps	Illuminance	Spacing	Lamps	Illuminance	Spacing
2 x 20W T5 Twin	360 lux	3.0m x 2.4m	4 x 14W T5 Twin	530 lux	2.4m x 2.4m
					
Maintenance: 0.8			Maintenance: 0.8		
Reflectance: 70/50/20			Reflectance: 70/50/20		
Ceiling Height: 2.7m			Ceiling Height: 2.7m		
Working Plane: 0.8m			Working Plane: 0.8m		

Dimensions



Version	L	W	H	Prepared Aperture	KG	KG 
Exposed T	584	584	95	—	4.4	5.4
Spring T	599	599	100	—	4.5	5.5
Plasterboard Frame	660	660	100	625 x 625 	6.4	7.4

Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

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

To Specify

Direct/indirect T5 or TC-L luminaire. Single or twin cell Hexaprism optic incorporating Intermediate Brightness Zone element to diffuse light and graduate brightness across the ceiling, mounted in a steel body painted white with air handling conversion as standard – as Whitecroft Lighting SOFTLIGHTER



Optics

- Hexaprism optic for all-round glare control and maximum efficiency mounted between perforated blades
- Single cell hexaprism light source options:
 - LED 1750 Lumen (25W)
 - 2 x 20W T5 Eco
 - 1 x 55W TC-L Amalgam
- Twin cell hexaprism lamp options:
 - LED 3500 Lumen (46W)
 - 4 x 14W T5
 - 2 x 40W TC-L Amalgam
 - 2 x 55W TC-L Amalgam

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
- Air handling:
 - 20L/sec for 2 x 20W
 - 30L/sec for all other variants



Cascade Edge Twin Cell



COM4 Integration

cascade edge

Order Codes

Cascade Edge Single Cell	HF Gear	3 hr Emergency
LED 1750 Lumen (25W)*	CLSY17PXT	CLSY17PXTEM
T5 2 x 20W ECO	CESH220PXT	CESH220PXTEM
TCL 1 x 55W (Amalgam)	CESH155PXT	CESH155PXTEM

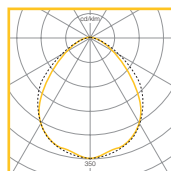
Cascade Edge Twin Cell	HF Gear	3 hr Emergency
LED 3500 Lumen (46W)*	CLTY35PXT	CLTY35PXTEM
T5 4 x 14W	CETH414PXT	CETH414PXTEM
TC-L 2 x 40W (Amalgam)	CETH240PXT	CETH240PXTEM
TC-L 2 x 55W (Amalgam)	CETH255PXT	CETH255PXTEM

Options

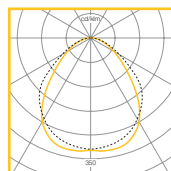
DALI / SWITCH DIMMING	Replace H with Y	i.e. CESY220PXT
EASYTEST	Add suffix /ET	i.e. CESH220PXT/ET
COMEPS	Add suffix /EP	i.e. CESH220PXT/EP
COMMAND 4	Replace H with Q4Y	i.e. CESQ4Y220PXT
COMET	Add suffix /CT	i.e. CESH220PXT/CT
SPRING T INTEGRATION	Replace XT with ST	i.e. CESH220PST
PLASTERBOARD INSTALLATION FRAME		SFTPB

*Note: DALI Dimming as standard on LED version

Photometric Performance



2 x 20W T5
• LOR = 79.4%
• SHR MAX = 1.54



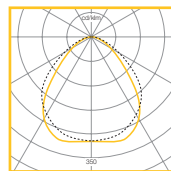
1 x 55W TC-L
• LOR = 75.3%
• SHR MAX = 1.56

Utilisation Factors UF(F)

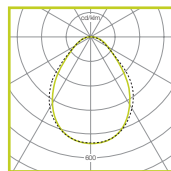
Room Reflectance	Room Index			
C	W	F	1.00	3.00 5.00
0.70	0.50	0.20	0.60	0.79 0.84

Utilisation Factors UF(F)

Room Reflectance	Room Index			
C	W	F	1.00	3.00 5.00
0.70	0.50	0.20	0.57	0.75 0.80



2 x 40W TC-L
• LOR = 72.4%
• SHR MAX = 1.61



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

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	0.72 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	0.76	1.00 1.05

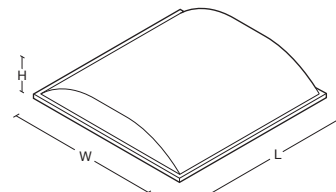
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs
1 x 20W T5 ECO	1650	21,000hrs
1 x 40W TC-L (Amalgam)	3500	20,000hrs
1 x 55W TC-L (Amalgam)	4800	20,000hrs

Performance Guide

Lamps	Illuminance	Spacing	Lamps	Illuminance	Spacing
2 x 20W T5 Single	450 lux	2.4m x 2.4m	2 x 40W TC-L Twin	507 lux	3.0m x 3.0m

Dimensions



Version	L	W	H	Prepared Aperture	KG	KG
Exposed T	584	584	95	—	4.4	5.4
Spring T	599	599	100	—	4.5	5.5
Plasterboard Frame	660	660	100	625 x 625 ± 3	6.4	7.4

Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

Exposed T Grids

T25 Lay in
T15 Tegral

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

To Specify

Direct/indirect T5 or TC-L luminaire. Single or twin cell hexaprism optic with perforated blades, mounted in a steel body painted white with air handling conversion – as Whitecroft Lighting CASCADE EDGE

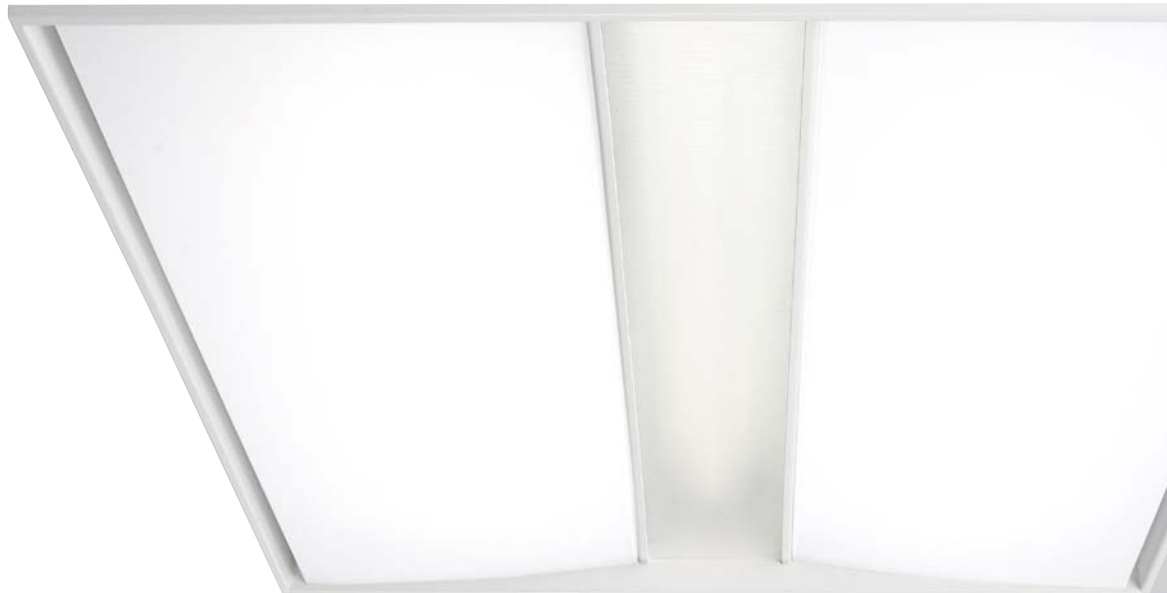
DUO² - the evolution of performance

Introducing duo²

The most advanced recessed luminaire available today

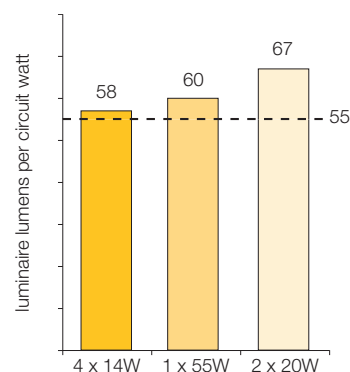
At its launch in 2009, DUO set the standard for high quality recessed fluorescent luminaires. Since then, it has had many imitators. To keep ahead of this trend, Whitecroft have now developed DUO² which sets new standards in both visual comfort and lighting performance.

DUO² boasts all of the features that made its predecessor so successful, whilst the range has been broadened with the addition of a new fixed micro prism optic. This optic uses the same conical refraction technology as the flagship dual position micro prism variant but with a recessed central optic arrangement similar to the louvred variants in the DUO² range.



Compliance Guaranteed

An uplift in performance across the range has been achieved with the development of new high output reflector technology, resulting in a 10% increase in light output. This means that the entire DUO² range achieves efficacy in excess of 55 luminaire lumens per circuit watt, resulting in guaranteed compliance with Part L of UK Building Regulations. This energy efficiency makes DUO² the ideal lighting solution for low carbon lighting schemes. Indeed its high performance means that DUO² has Light Output Ratios of up to 84%, whilst its unique Intermediate Brightness Zones allow this performance without the high degrees of glare normally associated with high LOR luminaires.





duo² the range

Centre Optic



Dual Optic Technology

The DUO² luminaire range has two distinct optical elements which are common throughout the range. DUO² employs Intermediate Brightness Zones (IBZ), which deliver diffuse light and inject brightness directly into the ceiling plane. These work in conjunction with optical cells which deliver controlled light, maximising efficiency and reducing glare.

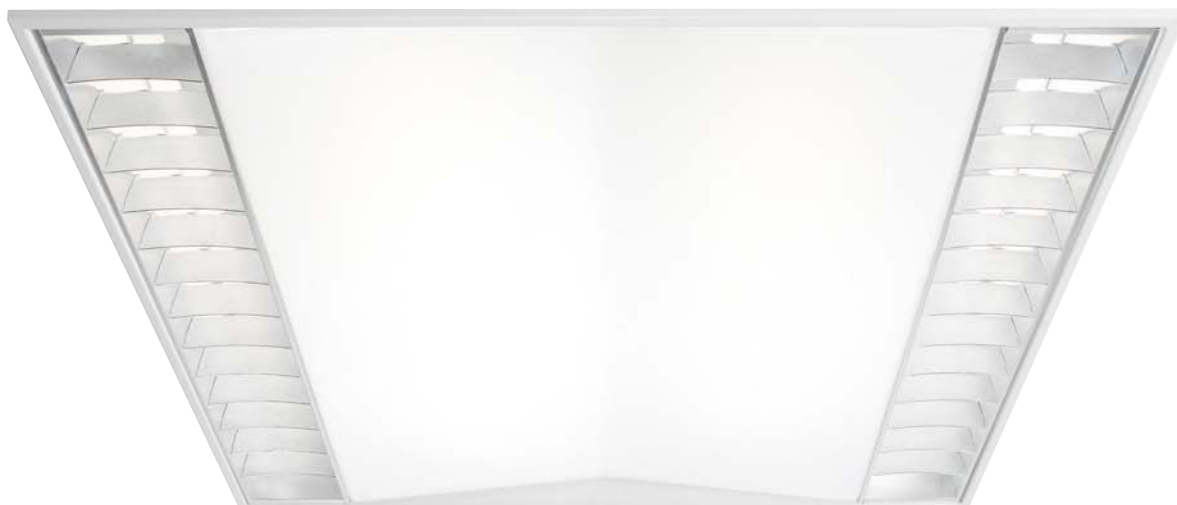
These optical cells are available with a choice of four controllers. The Micro Prism optic delivers exceptional controlled contrast with higher luminance and is available in either fixed or moveable versions. The latter has the unique ability to be used in either its recessed position for maximum ceiling integration or dropped to allow its linear refractor optics to further enhance the lighting of the ceiling plane.

If lower luminance levels are required a choice of two louvres are available: a 'living' louvre which builds on our unique Vivant louvre technology to create visual interest and a conventional semi-specular louvre. Both offer excellent glare control.



DUO²'s Micro Prism optic can be dropped from its recessed position to enhance the lighting of the ceiling plane

Side Optic



Luminaire Aesthetics

As well as offering a choice of optical arrangements, DUO² allows for two distinct aesthetic options. The DUO² centre optic range combines a familiar design style with high performance, whilst the DUO² side optic range maximises performance and has been designed to offer the ultimate aesthetic integration.

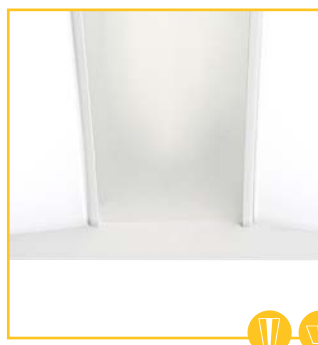
Two sizes of luminaire are available to integrate into both 600mm² and 1200mm x 300mm suspended ceiling systems.

All DUO² luminaires have air handling capability as standard - a carefully considered design feature which eliminates the need for unsightly extraction vents in the ceiling plane. DUO² has an air handling capacity of between 20 and 40 litres per second depending on its optical configuration.

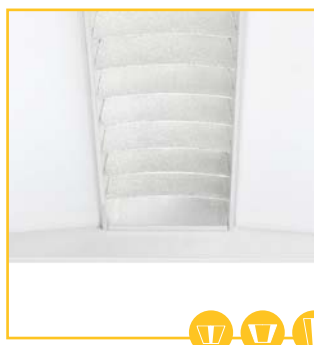
Moveable Micro Prism



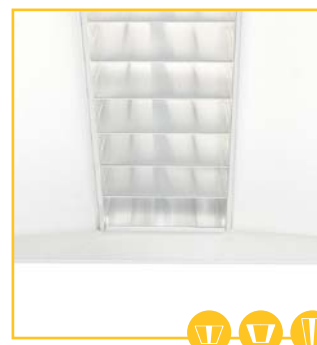
Fixed Micro Prism



Living Louvre



Semi-Specular Louvre



Duo² 600mm² centre optic



Duo² 600mm² side optic



Duo² 1200mm x 300mm



Optics

- 3 optical options:
 - Micro Prism – combines micro optical cones in a fixed recessed format or alternatively a flexible 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:
 - 3 x 14W T5
 - 4 x 14W T5
 - 3 x 20W T5
 - 1 x 55W TC-L (Amalgam)
- 1200 x 300mm lamp options:
 - 1 or 2 x 28/54W T5
 - 1 or 2 x 25/50W T5
- Side or centre optic positions
- Intermediate Brightness Zone technology using TP(a) rated polycarbonate material (fixed centre pod micro prism product TP(b) rated PMMA)

Body

- Steel body finished white
- For 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
 - Spring T
 - Plasterboard prepared aperture
- Air handling as standard 20 to 40 litres per second depending on the luminaire type (refer to Whitecroft Technical Desk)



duo² centre optic

Order Codes

Duo Micro Prism Optic

T5 3 x 14W

T5 3 x 20W ECO

HF Gear

D2CH314PXT

D2CH320PXT

3 hr Emergency

D2CH314PXTEM

D2CH320PXTEM

Duo Living Louvre

T5 3 x 14W

T5 3 x 20W ECO

T5 4 x 14W

HF Gear

D2CH314VXT

D2CH320VXT

D2CH414VXT

3 hr Emergency

D2CH314VXTEM

D2CH320VXTEM

D2CH414VXTEM

Duo Semi-Specular Louvre

T5 3 x 14W

T5 3 x 20W ECO

T5 4 x 14W

HF Gear

D2CH314WXT

D2CH320WXT

D2CH414WXT

3 hr Emergency

D2CH314WXTEM

D2CH320WXTEM

D2CH414WXTEM

Duo Micro Prism Optic (Fixed)

T5 3 x 14W

T5 3 x 20W ECO

T5 2 x 20W ECO

TC-L 1 x 55W (Amalgam)

HF Gear

D2FH314PXT

D2FH320PXT

D2FH220PXT

D2FH155PXT

3 hr Emergency

D2FH314PXTEM

D2FH320PXTEM

D2FH220PXTEM

D2FH155PXTEM

Options

DALI/SWITCH DIMMING

Replace H with **C**

i.e. D2CC414PXT

EASYTEST

Add suffix **/ET**

i.e. D2CH414PXT/ET

COMEPS

Add suffix **/EP**

i.e. D2CH414PXT/EP

COMMAND 4*

Replace H with **Q4Y**

i.e. D2FQ4Y314PXT

COMET

Add suffix **/CT**

i.e. D2CH414PXT/CT

PREPARED APERTURE/

SPRING T INTEGRATION

Replace XT with **ST**

i.e. D2CH414PST

PREPARED APERTURE

DUO2 Fixed Micro Prism only

D2FPA

TEGULAR T15

CEILING INTEGRATION**

Bracket kit for pull up

DUO600BKTKIT

* Only available with DUO2 Micro Prism Optic (Fixed)

** Not required with DUO2 Micro Prism Optic (Fixed)



Micro Prism Optic (Lowered)



Living Louvre



Semi-Specular Louvre



Micro Prism Optic (Fixed)

Ceiling Integration

Refer to common ceiling compatibility matrix –
See page 404

Exposed T Grids

T25 Lay in

T15 Lay in

T15 Tegular (Bracket kit required)

Alugrids (Fixed Micro Prism Only)

SAS AL 15/16

SAS AL 15/08

Spring T Grids (Add ST)

SAS – 150

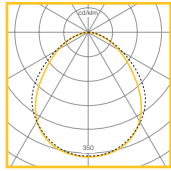
Armstrong – Orcal 1800/3000

Burgess – Clip in/A bar

Plasterboard (Add ST)

Prepared aperture

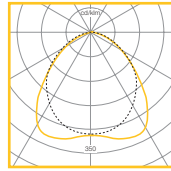
Photometric Performance



2 x 20W ECO T5
Micro Prism (Fixed)
• LOR = 84.0%
• SHR MAX = 1.55

Utilisation Factors UF(F)

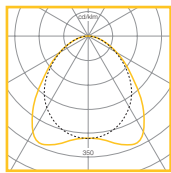
Room Reflectance Room Index
C W F 1.00 3.00 5.00
0.70 0.50 0.20 0.63 0.83 0.89



3 x 20W ECO T5
Living Louvre
• LOR = 79.2%
• SHR MAX = 1.71

Utilisation Factors UF(F)

Room Reflectance Room Index
C W F 1.00 3.00 5.00
0.70 0.50 0.20 0.59 0.79 0.84



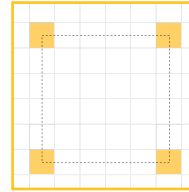
3 x 20W ECO T5
Semi-Specular
• LOR = 78.9%
• SHR MAX = 1.72

Utilisation Factors UF(F)

Room Reflectance Room Index
C W F 1.00 3.00 5.00
0.70 0.50 0.20 0.54 0.77 0.82

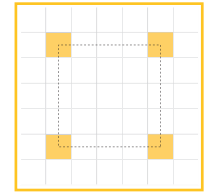
Performance Guide

Lamps Illuminance Spacing
1 x 55W T5 340 lux 3.0m x 3.0m
Micro Prism



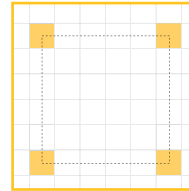
Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

Lamps Illuminance Spacing
1 x 55W T5 520 lux 2.4m x 2.4m
Micro Prism



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

Lamps Illuminance Spacing
3 x 20W T5 400 lux 3.0m x 3.0m
Micro Prism

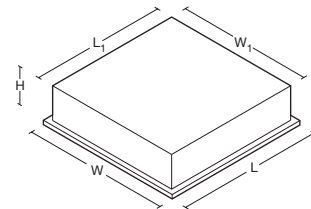


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs
1 x 20W T5 ECO	1650	21,000hrs
1 x 55W TC-L	4800	20,000hrs

Dimensions



MP/LL/SSL*	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/+3}	4.9	5.9

Micro Prism Fixed	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Exposed T	584	584	103	570	570	—	6.4	7.4
Plasterboard/Spring T	599	599	103	570	570	587 x 587 ^{-0/+3}	6.4	7.4

* Micro Prism Optic (MP), Living Louvre (LL), Semi-Specular Louvre (SSL)

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 (TP(b) rated PMMA for fixed Micro Prism), and 1 optical cell with Micro Prisms / Living Louvre / Semi Spec Louvre to control light and reduce glare – as Whitecroft Lighting DUO²

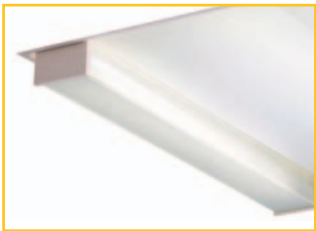
duo² side optic

Order Codes

Duo Micro Prism Optic T5 4 x 14W	HF Gear D2SH414PXT	3 hr Emergency D2SH414PXTEM
Duo Living Louvre T5 4 x 14W	HF Gear D2SH414VXT	3 hr Emergency D2SH414VXTEM
Duo Semi-Specular Louvre T5 4 x 14W	HF Gear D2SH414WXT	3 hr Emergency D2SH414WXTEM

Options

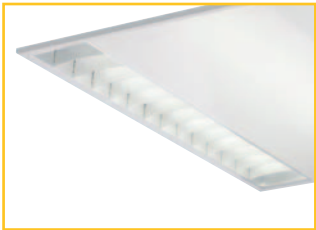
DALI/SWITCH DIMMING	Replace H with C	i.e. D2SC414PXT
EASYTEST	Add suffix /ET	i.e. D2SH414PXT/ET
COMEPS	Add suffix /EP	i.e. D2SH414PXT/EP
COMET	Add suffix /CT	i.e. D2SH414PXT/CT
PREPARED APERTURE/ SPRING T INTEGRATION	Replace XT with ST	i.e. D2SH414PST
REGULAR T15 CEILING INTEGRATION	Bracket kit for pull up	DUO600BKTKIT



Micro Prism Optic (Lowered)



Semi-Specular Louvre



Living Louvre

Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

Exposed T Grids

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

Spring T Grids (Add ST)

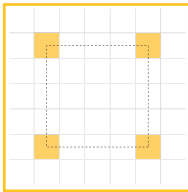
SAS – 150
Armstrong – Orcal 1800/3000
Burgess – Clip in/A bar

Plasterboard (Add ST)

Prepared aperture

Performance Guide

Lamps	Illuminance	Spacing
4 x 14W T5	550 lux	2.4m x 2.4m

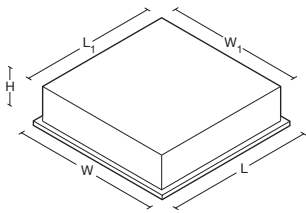


Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 2.7m
Working Plane: 0.8m

Lamp Performance

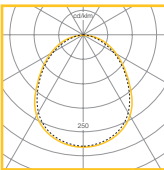
Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs

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

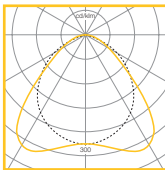


4 x 14W T5
Micro Prism
• LOR* = 70.1 (71.5)%
• SHR MAX = 1.56

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.51 0.69 0.74

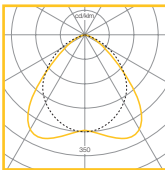
*Cell in recessed position – Figures in brackets cell in lowered position



4 x 14W T5
Living Louvre
• LOR = 72.8%
• SHR MAX = 1.77

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 0.71 0.76



4 x 14W T5
Semi-Specular
• LOR = 72.2%
• 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	0.51 0.71 0.76

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 DUO²

duo² 1200 x 300 linear

Order Codes

Duo Micro Prism Optic

T5 1 x 28W

T5 1 x 54W

HF Gear

D2CH128PST

D2CH154PST

3 hr Emergency

D2CH128PSTEM

D2CH154PSTEM

Duo Living Louvre

T5 1 x 28W

T5 2 x 28W

T5 1 x 54W

T5 2 x 54W

HF Gear

D2CH128VST

D2CH228VST

D2CH154VST

D2CH254VST

3 hr Emergency

D2CH128VSTEM

D2CH228VSTEM

D2CH154VSTEM

D2CH254VSTEM

Duo Semi-Specular Louvre

T5 1 x 28W

T5 2 x 28W

T5 1 x 54W

T5 2 x 54W

HF Gear

D2CH128WST

D2CH228WST

D2CH154WST

D2CH254WST

3 hr Emergency

D2CH128WSTEM

D2CH228WSTEM

D2CH154WSTEM

D2CH254WSTEM

Duo Micro Prism Optic (Fixed)

T5 1 x 25/28W

T5 ECO 1 x 50W

T5 2 x 25/28W

T5 ECO 2 x 50W

HF Gear

D2FH128PST

D2FH154PST

D2FH228PST

D2FH254PST

3 hr Emergency

D2FH128PSTEM

D2FH154PSTEM

D2FH228PSTEM

D2FH254PSTEM

Options

DALI / SWITCH DIMMING

Replace H with C

i.e. D2CC128PST

EASYTEST

Add suffix /ET

i.e. D2CH128PST/ET

COMEPS

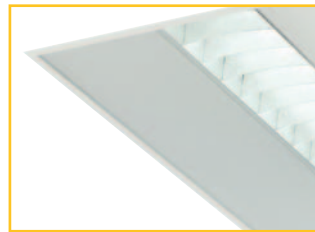
Add suffix /EP

i.e. D2CH128PST/EP

COMET

Add suffix /CT

i.e. D2CH128PST/CT



Living Louvre



Micro Prism Optic (Fixed)

Lamp Performance

Wattage	IL@25°C	Lamp Life	Wattage	IL@25°C	Lamp Life
1 x 28W T5	2625	24,000hrs	1 x 25W T5	1650	21,000hrs
1 x 54W T5	4450	24,000hrs	1 x 50W T5	4400	24,000hrs

Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

Spring T Grids

SAS – 150

Armstrong – Orcal 1800/3000

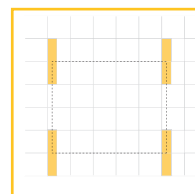
Burgess – Clip in/A bar

Plasterboard

Prepared aperture

Performance Guide

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



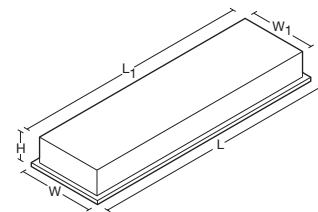
Maintenance: 0.8

Reflectance: 70/50/20

Ceiling Height: 2.7m

Working Plane: 0.8m

Dimensions

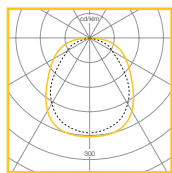


MP/LL/SSL*	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Plasterboard/Spring T	1199	299	123	1175	275	285 x 1187 $\pm 0_{-5}$	8.1	9.1

Micro Prism Fixed	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Plasterboard/Spring T	1199	299	103	1175	281	285 x 1187 $\pm 0_{-5}$	8.6	9.5

* Micro Prism Optic (MP), Living Louvre (LL), Semi-Specular Louvre (SSL)

Photometric Performance

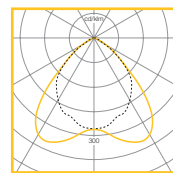


1 x 28W T5
Micro Prism
• LOR* = 67.1
(75.0)%
• SHR MAX = 1.53

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

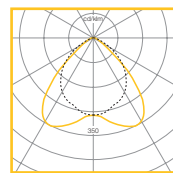
*Cell in recessed position – Figures in brackets cell in lowered position



1 x 28W T5
Living Louvre
• LOR = 72.4%
• 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 = 69.6%
• 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 1200 x 300mm luminaire with dual optic configuration and air return facility. Incorporating Intermediate Brightness Zone element to diffuse light and graduate brightness across the ceiling and 1 optical cell with (Micro Prisms / Living Louvre / Semi Spec Louvre) to control light and reduce glare – as Whitecroft Lighting DUO²



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 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, 20L/sec

softcell 3

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

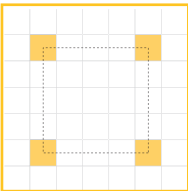
Recessed ceiling mount – exposed T15 Tegular /T25 Lay in	SOF3600XT
Recessed ceiling mount – spring T	SOF3600ST
Surface ceiling mount	SOF3600SM

Options

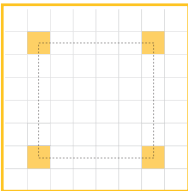
DALI DIMMING	Replace H with Y	i.e. SOF3W5Y314
SWITCH DIMMING	Replace H with X	i.e. SOF3W5X314
COMMAND 4	Replace H with Q4Y	i.e. SOF3W5Q4Y314
EASYTEST	Add suffix /ET	i.e. SOF3W5H314/ET
COMEPS	Add suffix /EP	i.e. SOF3W5H314/EP
COMET	Add suffix /CT	i.e. SOF3W5H314/CT

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

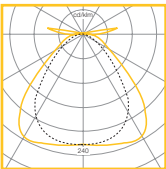


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

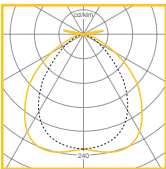


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

Photometric Performance



3 x 14W T5
• LOR = 57.2%
• SHR MAX = 1.78



4 x 14W T5
• LOR = 63.7%
• 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	0.42 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

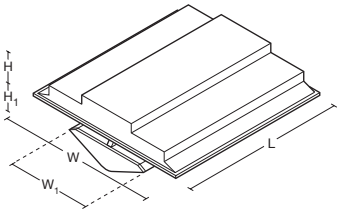
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs
1 x 24W T5	1750	24,000hrs



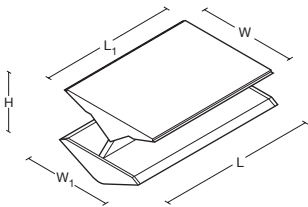
Dimensions

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 404

Exposed T Grids

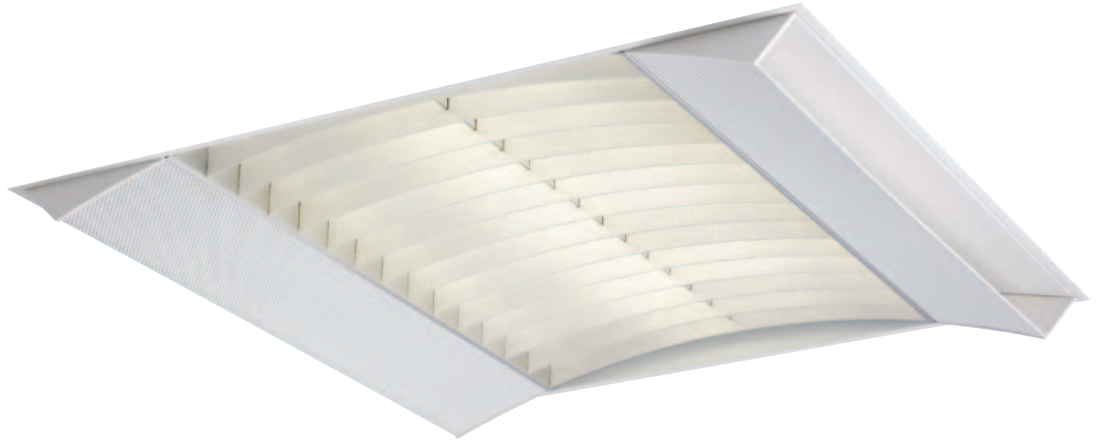
T25 Lay in
T15 Tegular

Spring T Grids

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

To Specify

Architectural T5 600 x 600mm 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



Optics

- Living louvre: positively retained with shimmer effect vacuum metalised blades
- 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

Body

- Steel body finished white
- For multiple ceiling integration
- Air handling as standard, 30L/sec

Order Codes

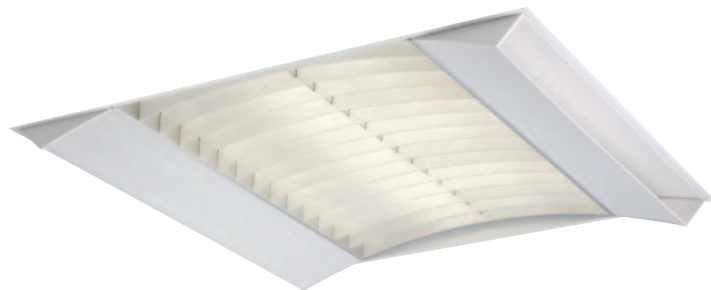
Vivant 600 x 600
T5 2 x 24W
T5 4 x 14W

HF Gear
VIVM224
VIVM414

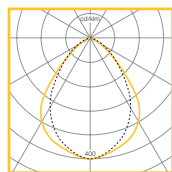
3 hr Emergency
VIVM224EMIN
VIVM414EMIN

Options

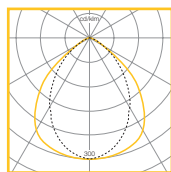
DALI DIMMING	Add Y after VIVM	i.e. VIVMY414
SWITCH DIMMING	Add X after VIVM	i.e. VIVMX414
COMMAND 4	Add Q4Y after VIVM	i.e. VIVMQ4Y414
COMMAND 3	Add Q3Y after VIVM	i.e. VIVMQ3Y414
EASYTEST	Add suffix /ET	i.e. VIVM414/ET
COMEPS	Add suffix /EP	i.e. VIVM414/EP
COMET	Add suffix /CT	i.e. VIVM414/CT
PREPARED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



Photometric Performance



2 x 24W T5
• LOR = 66.4%
• SHR MAX = 1.48



4 x 14W T5
• 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	0.53	0.67	0.71

Utilisation Factors UF(F)

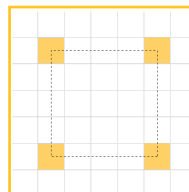
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.51	0.65	0.68

Performance Guide

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

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs
1 x 24W T5	1750	24,000hrs



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 404

Exposed T Grids

T25 Lay in
T15 Tegular

Alugrids

SAS AL 15/16
SAS AL 15/08

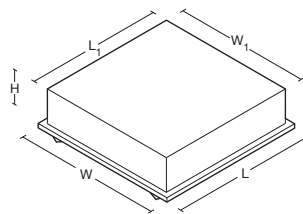
Spring T Grids (Add ST)

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

Plasterboard (Add ST)

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 $\frac{1}{8}$	7.5	8.5

To Specify

Semi-recessed architectural T5 600 x 600mm 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



cascade TSI

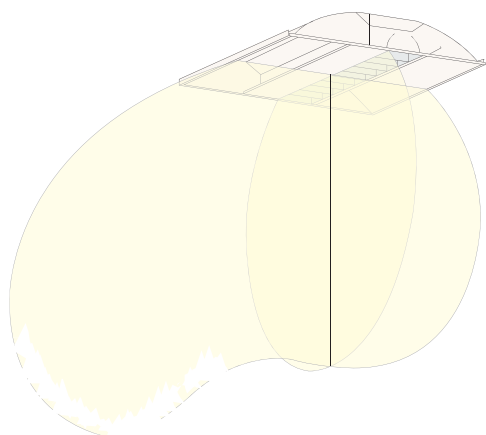
The importance of the role that lighting has to play in the health and welfare of our children cannot be underestimated. Nowhere is this more apparent than in the school environment, where lighting can have a direct and dramatic effect on educational achievement. Lighting can stimulate and energise the 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.



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.

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.

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%

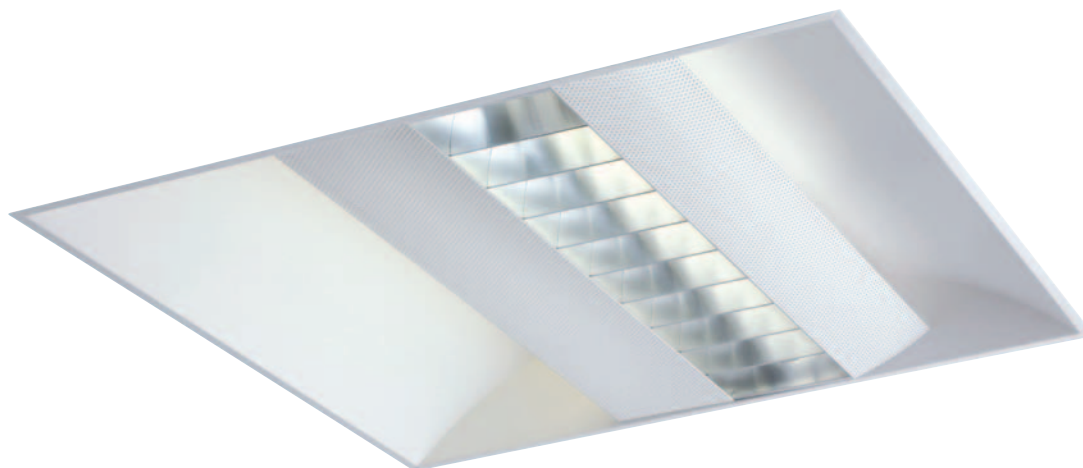
Cascade TSI puts almost twice as much light onto the walls of a classroom with a superior degree of uniformity than that of a typical symmetrical distribution luminaire.



Typical 3 x 14W T5



Cascade TSI 4 x 14W T5



Optics

- Asymmetric 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 600 x 600mm exposed T (15mm and 25mm) ceilings. Installation in plasterboard ceilings possible using optional frame

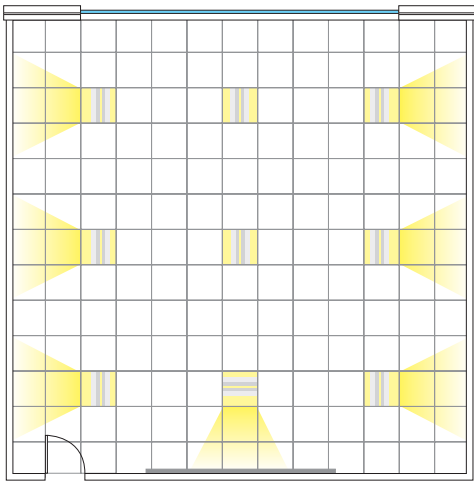
cascade TSI

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

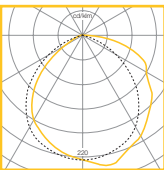
Options

DALI DIMMING	Replace H with Y	i.e. CTS Y 414
SWITCH DIMMING	Replace H with X	i.e. CTS X 414
COMMAND 4	Replace H with Q4Y	i.e. CTS Q4Y 414
COMMAND 3	Replace H with Q3Y	i.e. CTS Q3Y 414
EASYTEST	Add suffix /ET	i.e. CTSH414/ ET
COMEPS	Add suffix /EP	i.e. CTSH414/ EP
COMET	Add suffix /CT	i.e. CTSH414/ CT
PLASTERBOARD INSTALLATION FRAME		CSDPBF

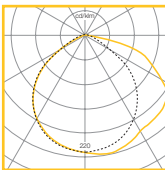


Cascade TSI used in conjunction with standard Cascade in a 9 luminaire typical classroom arrangement

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

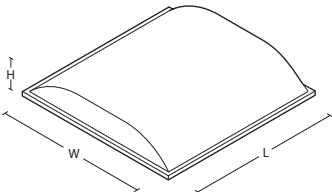
Utilisation Factors UF(F)

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

Dimensions



Version	L	W	H	Prepared Aperture	KG	KG
Exposed T	593	591	95	—	6.0	7.0
Plasterboard frame	660	660	100	625 x 625	8.0	9.0

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	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 404

Exposed T Grids

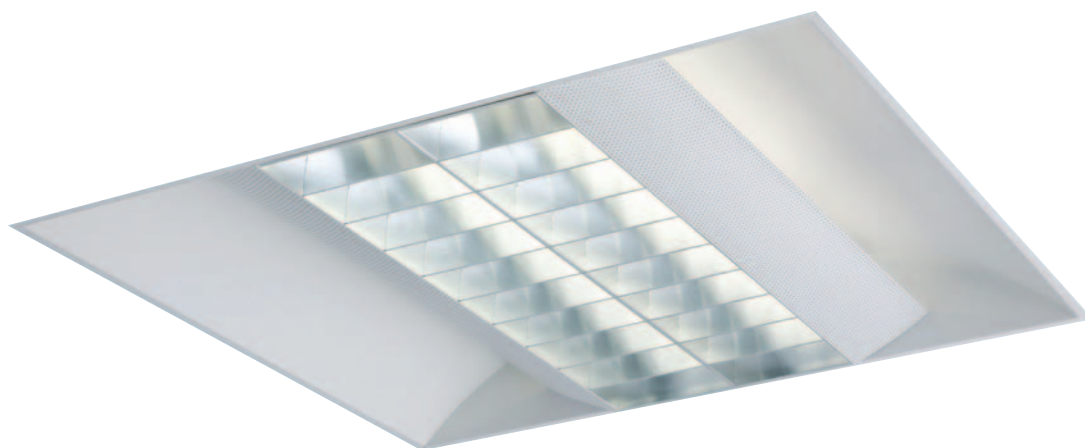
T25 Lay in
T15 Lay in

Plasterboard (Installation frame required)

Prepared aperture

To Specify

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



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, 30L/sec



paversmith
managing reputations

cascade

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	i.e. CSDWY224
SWITCH DIMMING	Replace H with X	i.e. CSDWX224
COMMAND 4	Replace H with Q4Y	i.e. CSDWQ4Y224
COMMAND 3	Replace H with Q3Y	i.e. CSDWQ3Y224
EASYTEST	Add suffix /ET	i.e. CSDWH224/ET
COMEPS	Add suffix /EP	i.e. CSDWH224/EP
COMET	Add suffix /CT	i.e. CSDWH224/CT
AIR HANDLING	Add suffix /AH	i.e. CSDWH224/AH
PLASTERBOARD INSTALLATION FRAME		CSDPBF

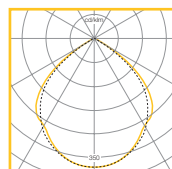


Cascade 2 x 54W Single Cell Louvre



Cascade Twin Cell Louvre

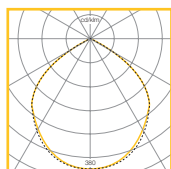
Photometric Performance



- 4 x 14W T5
- LOR = 72.6%
- SHR MAX = 1.58

Utilisation Factors UF(F)

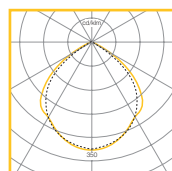
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.58 0.75 0.78



- 2 x 24W T5
- LOR = 77.7%
- SHR MAX = 1.57

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.61 0.79 0.84



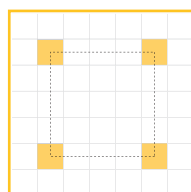
- 2 x 55W TC-L
- LOR = 68.8%
- SHR MAX = 1.55

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

Performance Guide

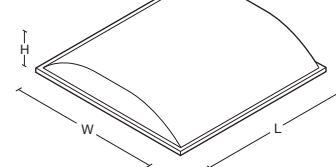
Lamps	Illuminance	Spacing
4 x 14W T5	510 lux	2.4m x 2.4m



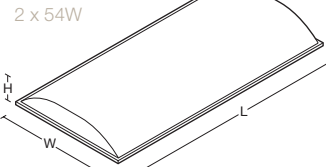
Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

Dimensions

600 x 600



1200 x 600
2 x 54W



Version	L	W	H	Prepared Aperture	KG	KG ☑
Exposed T	593	595	95	—	4.5	5.5
Plasterboard frame	660	660	95	625 x 625 $\frac{3}{16}$	6.5	7.5
2 x 54W Version	1193	595	95	—	8.0	9.0

Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

Exposed T Grids

T25 Lay in
T15 Lay in

Plasterboard (Requires installation frame)

Prepared aperture
(600 x 600 only)

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	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

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 retail

Optics

- Lamp options:
 - 2 x 55W TC-L
- 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



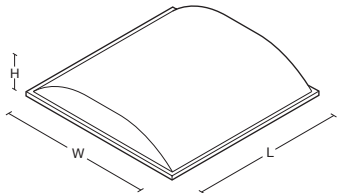
Order Codes

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

Options

DALI DIMMING	Replace H with Y	i.e. CSDW Y 255RLV
SWITCH DIMMING	Replace H with X	i.e. CSDW X 255RLV
EASYTEST	Add suffix /ET	i.e. CSDWH255RLV/ ET
COMEPS	Add suffix /EP	i.e. CSDWH255RLV/ EP
COMET	Add suffix /CT	i.e. CSDWH255RLV/ CT
PLASTERBOARD INSTALLATION FRAME		CSDPBF

Dimensions



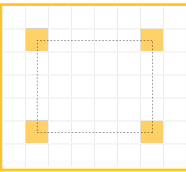
Version	L	W	H	Prepared Aperture	KG	KG
2 x 55W TC-L Exposed T	593	595	95	–	4.5	5.5
2 x 55W TC-L Plasterboard	660	660	95	625 x 625 ± 3	6.5	7.5

Performance Guide

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

Lamp Performance

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



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 404

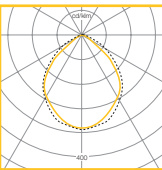
Exposed T Grids

T25 Lay in
T15 Lay in

Plasterboard (Requires installation frame)

Prepared aperture

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

To Specify

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

spear profile

semi-recessed
louvred luminaire

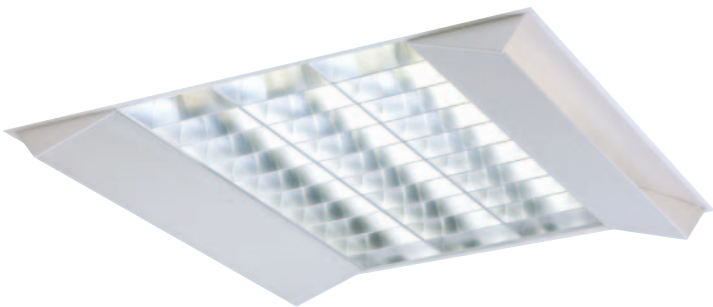


Optics

- 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 30L/sec



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

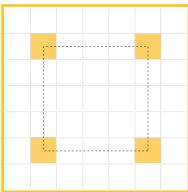
DALI DIMMING	Replace H with Y	i.e. SPPY314
SWITCH DIMMING	Replace H with X	i.e. SPPX314
COMMAND 4	Replace H with Q4Y	i.e. SPPQ4Y314
EASYTEST	Add suffix /ET	i.e. SPPH314/ET
COMEPS	Add suffix /EP	i.e. SPPH314/EP
COMET	Add suffix /CT	i.e. SPPH314/CT

Performance Guide

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

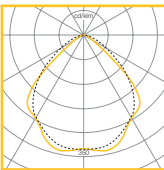
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs
1 x 24W T5	1750	24,000hrs



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

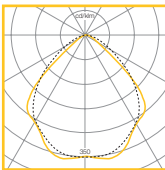
Photometric Performance



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

Utilisation Factors UF(F)

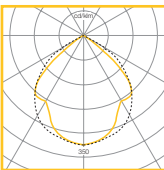
Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.60 0.76 0.80



3 x 24W T5
• LOR = 76.5%
• 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	0.62 0.79 0.83

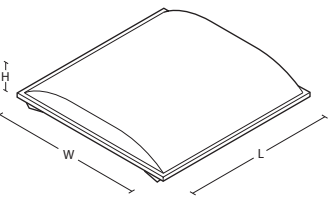


4 x 14W T5
• LOR = 68%
• SHR MAX = 1.58

Utilisation Factors UF(F)

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

Dimensions



L	W	H	KG	KG
584	584	81	7.0	8.0

Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

Exposed T Grids

T25 Lay in
T15 Tegular

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

IP44/IP20 recessed
diffuser luminaire



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
- IP44 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

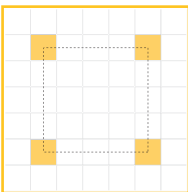
DALI DIMMING	Replace H with Y	i.e. SFPY314
SWITCH DIMMING	Replace H with X	i.e. SFPX314
EASYTEST	Add suffix /ET	i.e. SFPH314/ET
COMEPS	Add suffix /EP	i.e. SFPH314/EP
COMET	Add suffix /CT	i.e. SFPH314/CT
4 SLIDING BRACKETS FOR PLASTERBOARD CEILINGS AND TEGULAR TILES		BCNSB

Performance Guide

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

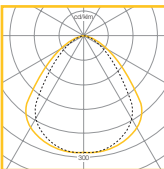
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs
1 x 24W T5	1750	24,000hrs



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

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 404

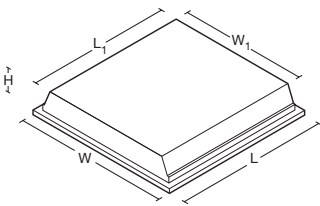
Exposed T Grids

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

Plasterboard

Prepared aperture (Sliding brackets required)

Dimensions



Version	L	W	H	L ₁	W ₁	Prepared Aperture	KG	KG
Exposed T/Plasterboard	595	595	97	575	575	580 x 580	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





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

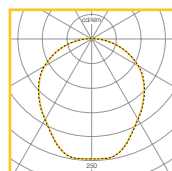
Order Codes

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

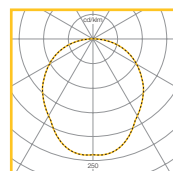
Options

DALI DIMMING	Add Y after HYGP	i.e. HYGPY314
SWITCH DIMMING	Add X after HYGP	i.e. HYGPX314
EASYTEST	Add suffix /ET	i.e. HYGP314/ET
COMEPS	Add suffix /EP	i.e. HYGP314/EP
COMET	Add suffix /CT	i.e. HYGP314/CT
RECESSING PANEL	To maintain IP54 on spring T ceilings	
	Add suffix R	i.e. HYGP314R
PLASTERBOARD INSTALLATION KIT		LUMAFIXBKTKIT

Photometric Performance



3 x 14W T5
 • LOR = 61.5%
 • SHR MAX = 1.51



4 x 14W T5
 • LOR = 61.6%
 • 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



Lamp Performance

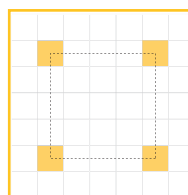
Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs
1 x 24W T5	1750	24,000hrs
1 x 28W T5	2625	24,000hrs

Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

Performance Guide

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



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

Exposed T Grids

T15/T25 Pull up

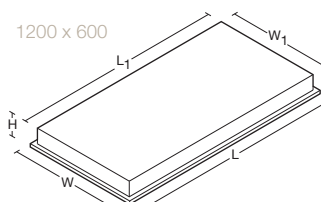
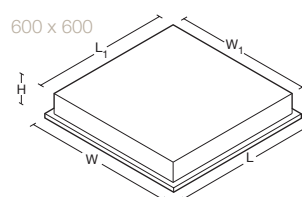
Spring T Grids (Optional recessing panel available)

SAS – 150/120*
 Armstrong – Orcal 1800/3000*
 Burgess – Clip in/Abar*

Plasterboard

Prepared aperture*
 *Plasterboard 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	6.0	7.0
1200 x 600	1199	599	106	1170	540	550 x 1150 ± 3	7.0	8.0

To Specify

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



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	i.e. DUOLY128
SWITCH DIMMING	Replace H with X	i.e. DUOLX128
EASYTEST	Add suffix /ET	i.e. DUOLH128/ET
COMEPS	Add suffix /EP	i.e. DUOLH128/EP
COMET	Add suffix /CT	i.e. DUOLH128/CT
PLASTERBOARD/EXPOSED T TEGULAR INSTALLATION KIT		LUMAFIXBKTKIT

Ceiling Integration

Refer to common ceiling
compatibility matrix –
See page 404

Exposed T Grids

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

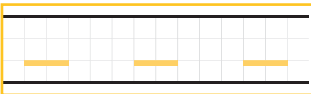
Plasterboard

Prepared aperture (Installation kit
required)



Performance Guide

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

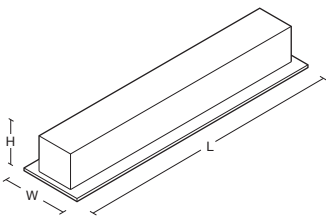


Maintenance: 0.8	Ceiling Height: 2.7m
Reflectance: 70/50/20	Working Plane: 0.0m

Lamp Performance

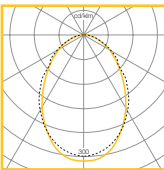
Wattage	IL@25°C	Lamp Life
1 x 28W T5	2625	24,000hrs
1 x 54W T5	4450	24,000hrs

Dimensions



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

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

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



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	i.e. GIBYY128
SWITCH DIMMING	Replace H with X	i.e. GIBYX128
EASYTEST	Add suffix /ET	i.e. GIBYH128/ET
COMEPS	Add suffix /EP	i.e. GIBYH128/EP
COMET	Add suffix /CT	i.e. GIBYH128/CT
PLASTERBOARD INSTALLATION KIT		LUMAFIXBKTKIT



Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

Exposed T Grids

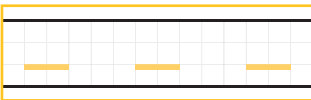
T25 Lay in
T15 Lay in

Plasterboard

Prepared aperture (Installation kit required)

Performance Guide

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

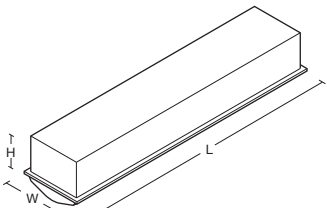


Maintenance: 0.8	Ceiling Height: 2.7m
Reflectance: 70/50/20	Working Plane: 0.0m

Lamp Performance

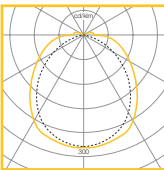
Wattage	IL@25°C	Lamp Life
1 x 28W T5	2625	24,000hrs
1 x 54W T5	4450	24,000hrs

Dimensions



Version	L	W	H	Prepared Aperture	KG	KG ☑
Exposed T/Plasterboard	1199	93	68	1188 x 82 ³ / ₃₂	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

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

broadspread asymmetric

asymmetric luminaire
ideal for corridors



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

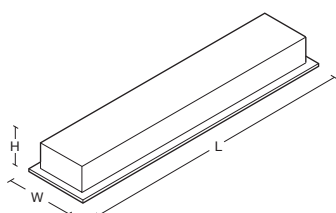
Order Codes

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

Options

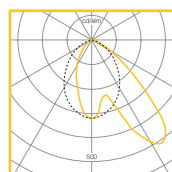
DALI DIMMING	Replace H with Y	i.e. BASMY154
SWITCH DIMMING	Replace H with X	i.e. BASMX154
EASYTEST	Add suffix /ET	i.e. BASMH154/ET
COMEPS	Add suffix /EP	i.e. BASMH154/EP
COMET	Add suffix /CT	i.e. BASMH154/CT
PREPARED APERTURE INSTALLATION KIT		BASYSBKIT

Dimensions



Version	L	W	H	Prepared Aperture	KG	KG
Exposed T/Plasterboard	1197	197	80	175 x 1175	3.8	4.8

Photometric Performance



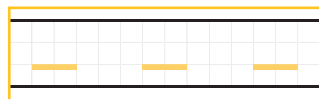
- 1 x 54W T5
- LOR = 65.4%
- SHR MAX = 1.66

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.51 0.67 0.70

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

Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

Exposed T Grids

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

Plasterboard

Prepared aperture (Installation kit required)

Lamp Performance

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

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

