



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)

* For specific Spring T ceilings only. See Ceiling Integration Guide or matrix – page 404



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. D2F**Q4Y**314PXT

COMET

Add suffix **/CT**

i.e. D2CH414PXT/**CT**

PREPARED APERTURE/

SPRING T INTEGRATION**

Replace XT with **ST**

i.e. D2CH414**PST**

PREPARED APERTURE

For DUO² Fixed Micro Prism only

D2FPA

TEGULAR T15

CEILING INTEGRATION*** Bracket kit for pull up

DUO600BKTKIT

* Only available with DUO2 Micro Prism Optic (Fixed)

** For specific Spring T ceilings only. See Ceiling Integration Guide

*** 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 3000

Burgess – Clip in / A bar

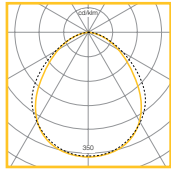
Armstrong – Orcal 1800 Half Spring T

Burgess Clip in Half Spring T

Plasterboard (Add ST)

Prepared aperture

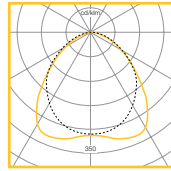
Photometric Performance



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

Utilisation Factors UF(F)

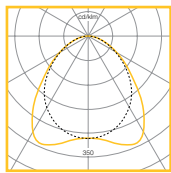
Room Reflectance Room Index
C W F 1.00 3.00 5.00
0.70 0.50 0.20 0.63 0.83 0.89



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



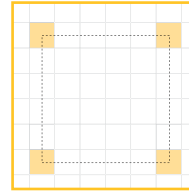
3 x 20W ECO T5
Semi-Specular
• LOR = 78.9%
• SHR MAX = 1.72

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

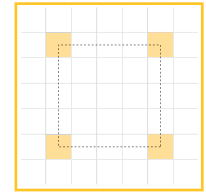
Performance Guide

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



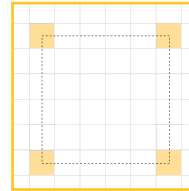
Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

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

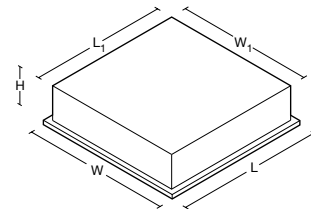


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

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