



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

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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
TEGULAR 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 Tegalur (Bracket kit required)

Spring T Grids (Add ST to order code)

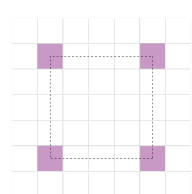
SAS – 150
Armstrong – Orcal 1800/3000
Burgess – Clip in/A bar

Plasterboard (Add ST to order code)

Prepared aperture

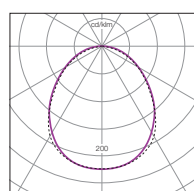
PERFORMANCE GUIDE

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

PHOTOMETRIC PERFORMANCE

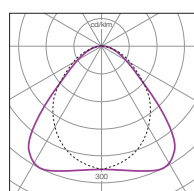


4 x 14W T5
Micro Prism
• LOR* = 62.0 (66.7%)
• SHR MAX = 1.53

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	



Micro prism optic (lowered)



Living louvre

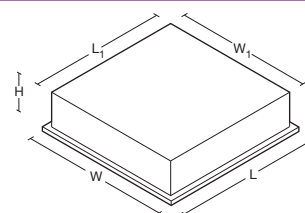


Semi-specular louvre

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

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

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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
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CEILING INTEGRATION

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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



Micro prism optic (lowered)



Living louvre

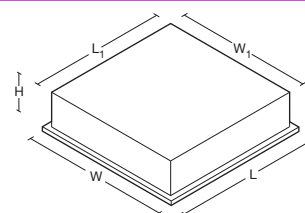


Semi-specular louvre

LAMP PERFORMANCE

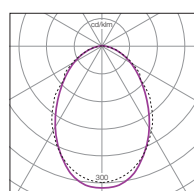
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PHOTOMETRIC PERFORMANCE

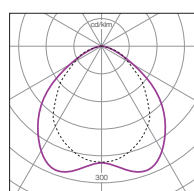


3 x 24W T5
Micro Prism
• LOR* = 61.3 (61.8%)
• SHR MAX = 1.59

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

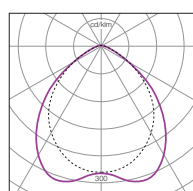
*Cell in recessed position – Figures in brackets cell in lowered position



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

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