

Duo linear

Recessed fluorescent: Intermediate brightness zone luminaire



Micro Prism Optic (recessed)



Micro Prism Optic (lowered)



Living Louvre



Semi Specular Louvre

Duo is a high specification and efficient modular recessed luminaire with a modern clean and pure aesthetic, which delivers exceptional illumination. Duo has a range of optics and associated luminance limits and has been optimised around the T5 lamp.

APPLICATION

- Offices
- Reception spaces
- Ambient retail lighting
- Hospital consulting rooms, waiting areas and offices
- Education classrooms and circulation spaces
- Corridors
- Board rooms
- Conference rooms

SPECIFICATION

Body

- Lamp Options:
 - 1 x 28w T5
 - 2 x 28w T5
- Ceiling options:
 - Concealed grid Spring T
 - Cut aperture Plasterboard
 - Metal plank systems by request
- High quality fully boxed and jointed body, with full flange to eliminate light spill
- Body manufactured from 0.7mm gauge steel.
- Luminaire IP20
- High frequency, DSI regulating, and DALI control gear options.
- Adjustable side support brackets
- Air handling as standard.
- Supplied less lamps

Optics

- 3 optical options:
 - **Micro Prism** - combines micro optical cones and micro linear prisms – with feature for semi recessing to deliver further enhanced room surface ratios
 - **Micro Film** reflector 'living louvre' - vacuum metalized injection moulded and textured louvre
 - **Semi specular**, high quality zero iridescence Aluminium louvre.
- High efficiency and high output T5 lamp options
- Intermediate brightness zone technology, delivering high efficiency and controlled contrast, for a uniquely comfortable working environment.
- Plastics fully UV protected and fully TPa building regulation compliant.
- Up to 74% LOR.

- Impact resistant polycarbonate
- Positive retention to all optical elements.
- Easy access for maintenance and service.

Options

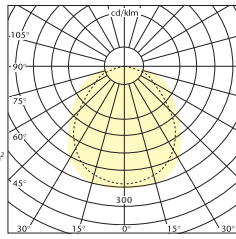
- Biodynamic lighting technology integration - delivering enhanced well being and productivity in all occupants
- 'Duo Colour', virtual flood lighting - to flood light building from inside with LED's
- 3hr integral maintained emergency.
-  Easytest – integral self test version available

DUO Centre Cell Recessed

MICRO OPTIC
1 x 28W T5



- 65° Max* = 1847 (2715)cd/m²
- LOR* = 67.1 (75.0)%
- SHR MAX = 1.53



UTILISATION FACTORS UF(F)
Room Reflectance Room Index

C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.42	0.47	0.52	0.55	0.60	0.63	0.65	0.68	0.70
0.50	0.30	0.20	0.37	0.42	0.46	0.50	0.54	0.57	0.60	0.63	0.65
0.00	0.00	0.00	0.32	0.36	0.41	0.44	0.48	0.51	0.53	0.56	0.58

SHR NOM 1.50

Typical UGR (70:50:20) 4H 4H = 18

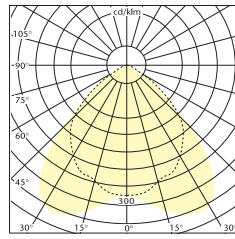
*Cell in recessed position - Figures in brackets Cell in lowered position

DUO Centre Cell Recessed

LIVING LOUVRE
1 x 28W T5



- 65° Max = 647cd/m²
- LOR = 69.7%
- SHR MAX = 1.81



UTILISATION FACTORS UF(F)
Room Reflectance Room Index

C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.44	0.51	0.57	0.60	0.65	0.68	0.70	0.72	0.74
0.50	0.30	0.20	0.38	0.46	0.51	0.54	0.59	0.63	0.65	0.68	0.70
0.00	0.00	0.00	0.33	0.40	0.45	0.49	0.54	0.56	0.59	0.61	0.63

SHR NOM 1.75

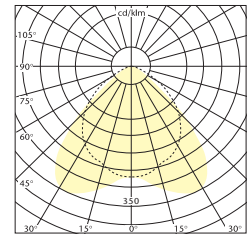
Typical UGR (70:50:20) 4H 4H = 17

DUO Centre Cell Recessed

SEMI-SPECULAR LOUVRE
1 x 28W T5



- 65° Max = 654cd/m²
- LOR = 69.17%
- SHR MAX = 1.81



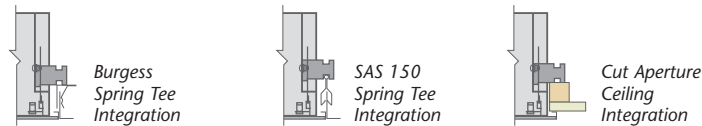
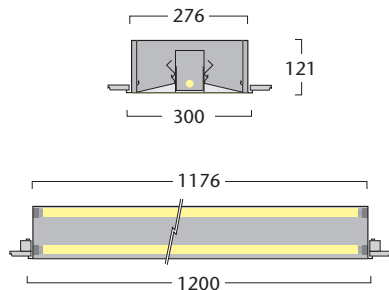
UTILISATION FACTORS UF(F)
Room Reflectance Room Index

C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.44	0.51	0.56	0.60	0.65	0.68	0.70	0.72	0.74
0.50	0.30	0.20	0.38	0.46	0.51	0.54	0.59	0.63	0.65	0.68	0.70
0.00	0.00	0.00	0.33	0.40	0.45	0.49	0.54	0.56	0.59	0.61	0.63

SHR NOM 1.75

Typical UGR (70:50:20) 4H 4H = 12

DIMENSIONS



LAMP PERFORMANCE			WEIGHT	
WATTAGE	IL@25°C	LAMP LIFE		KG
1 x 28W T5	2,600	20,000hrs	300 x 1200	8.1
			300 x 1200 emergency	9.1

ORDER CODES - DUO LINEAR

OPTIC	LAMP TYPE	ORDER CODE
Luminaires for exposed tee ceilings (supplied without lamps)		
Micro Optic	2 x 28W	DUOCH228PST
Micro Optic	1 x 28W	DUOCH128PST
Living Louvre	2 x 28W	DUOCH228VST
Living Louvre	1 x 28W	DUOCH128VST
Semi Specular Louvre	2 x 28W	DUOCH228WST
Semi Specular Louvre	1 x 28W	DUOCH128WST
Luminaires with Bio Dynamic Lighting (supplied with lamps)		
Micro Optic	3 x 28W	DUOCYS328PST
Living Louvre	3 x 28W	DUOCYS328VST
Controllers for Bio Dynamic Lighting		
Bio Dynamic Controller (controls up to 100 luminaires)		DUOBD C
Bio Dynamic Controller with LED channel (controls up to 100 luminaires)		DUOBDCL

GEAR Replace suffix on order codes above, e.g.

- D** Digital DSI Gear, i.e. DUOCD414PXT
- Y** Digital DALI Gear, i.e. DUOCY414PXT

DUO COLOUR Add suffix to order codes above

- /LB** LED Kit Blue, i.e. DUOCH414PXT/LB
- /LR** LED Kit Red, i.e. DUOCH414PXT/LR
- /LG** LED Kit Green, i.e. DUOCH414PXT/LG

EMERGENCY Add suffix to order codes above, e.g.

- /EMIN** Emergency pack, i.e. DUOCH414PXT/EMIN

EASYTEST OPTION Add suffix to luminaire order codes above, e.g.

- /ET** Easytest self test emergency i.e. DUOCH414PXT/ET

To specify state:

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.