

DTFN elite

– for prepared aperture ceilings

IP65/54 recessed
luminaire with sealed
two frame construction



Optics

- Lamp options:
 - 4 x 14 or 24W T5
 - 2 or 4 x 28W T5
 - 2, 3 or 4 x 54W T5
- All optics are TP(a) rated:
 - Louvre above 4mm toughened glass or clear fireguard material
 - Prismatic acrylic above 4mm toughened glass
 - Single sheet 3mm prismatic fireguard material

Note – a glass front face resists all cleaning chemicals and is best for a sterile environment. Other TP(a) materials are selected for best chemical resistance. If advice is needed contact the Whitecroft Technical Desk

Body

- Front access or back access
- Suitable for cut and prepared aperture ceilings and sandwich panels with capped aperture reinforcements up to a depth of 91mm front and 108mm back access with standard brackets or 155mm front and 172mm back access with special deep ceiling bracket
- Through access version also available to facilitate maintenance of services located in the ceiling void (See page 332 for details)
- Welded steel body finished white
- Dual IP rated – to a BSI tested and certified construction as protecting the room to IP65 from void contamination with the front frame and IP54 with the frame removed
- Extruded aluminium fixed outer frame (gasketed to ceiling) and removable inner frame integrate in line but at an angle to eliminate a vertical gap. Additional mastic sealant between outer frame and ceiling does not impede lamp access. Concealed front frame fixings and white full gloss frames
- Solid aluminium side arm jacking brackets adjusted from within the sealed body (from the room above for back access versions)
- The diffuser clamping system is highly secure and will accept glass. The inner frame design facilitates diffuser replacement





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Order Codes

Louvre above 4mm
toughened glass

	HF Gear	3 hr Emergency
T5 4 x 14W	DTFNWGH414	DTFNWGH414EMIN
T5 4 x 24W	DTFNWGH424	DTFNWGH424EMIN
T5 2 x 28W	DTFNWGH228	DTFNWGH228EMIN
T5 4 x 28W	DTFNWGH428	DTFNWGH428EMIN
T5 2 x 54W	DTFNWGH254	DTFNWGH254EMIN
T5 4 x 54W	DTFNWGH454	DTFNWGH454EMIN

Louvre above 3mm
clear TP(a) rated sheet

	HF Gear	3 hr Emergency
T5 4 x 14W	DTFNWFH414	DTFNWFH414EMIN
T5 4 x 24W	DTFNWFH424	DTFNWFH424EMIN
T5 2 x 28W	DTFNWFH228	DTFNWFH228EMIN
T5 4 x 28W	DTFNWFH428	DTFNWFH428EMIN
T5 2 x 54W	DTFNWFH254	DTFNWFH254EMIN
T5 4 x 54W	DTFNWFH454	DTFNWFH454EMIN

Prismatic acrylic above 4mm
toughened glass

	HF Gear	3 hr Emergency
T5 4 x 14W	DTFNAGH414	DTFNAGH414EMIN
T5 4 x 24W	DTFNAGH424	DTFNAGH424EMIN
T5 2 x 28W	DTFNAGH228	DTFNAGH228EMIN
T5 4 x 28W	DTFNAGH428	DTFNAGH428EMIN
T5 2 x 54W	DTFNAGH254	DTFNAGH254EMIN
T5 3 x 54W	DTFNAGH354	DTFNAGH354EMIN
T5 4 x 54W	DTFNAGH454	DTFNAGH454EMIN

Prismatic TP(a) single sheet

	HF Gear	3 hr Emergency
T5 4 x 14W	DTFNKH414	DTFNKH414EMIN
T5 4 x 24W	DTFNKH424	DTFNKH424EMIN
T5 2 x 28W	DTFNKH228	DTFNKH228EMIN
T5 4 x 28W	DTFNKH428	DTFNKH428EMIN
T5 2 x 54W	DTFNKH254	DTFNKH254EMIN
T5 3 x 54W	DTFNKH354	DTFNKH354EMIN
T5 4 x 54W	DTFNKH454	DTFNKH454EMIN

Options

DALI DIMMING	Replace H with Y	i.e. DTFNWDY414
SWITCH DIMMING	Replace H with X	i.e. DTFNWDX414
COMEPS	Add suffix /EP	i.e. DTFNWDH414/EP
EASYTEST	Add suffix /ET	i.e. DTFNWDH414/ET
COMET	Add suffix /CT	i.e. DTFNWDH414/CT
BACK ACCESS	Add suffix BA	i.e. DTFNWDH414BA
	For emergency	i.e. DTFNWDH414BAEMIN

For ceilings up to 155mm thick (front access) and 172mm thick (back access)

DEEP CEILING BRACKET

14/24W lamps

28/54W lamps

Ceiling Depth Selection Guide

	Standard Bracket	Optional Deep Bracket
Front Access	33-91mm	33-155mm
Back Access	52-108mm	52-172mm

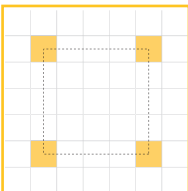
354 Clean Area



Solid Aluminium Jacking Bracket

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

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
1 x 54W T5	4450	24,000hrs

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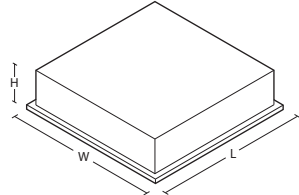
Weight

	Louvre/ toughened glass	Louvre/TP(a) rated sheet	Acrylic/ toughened glass	Prismatic TP(a)
T5 4 x 14W	16.0 KG	14.0 KG	16.0 KG	12.0 KG
T5 4 x 24W	16.0 KG	14.0 KG	16.0 KG	12.0 KG
T5 2 x 28W	18.0 KG	15.0 KG	18.0 KG	13.0 KG
T5 4 x 28W	27.0 KG	21.0 KG	28.0 KG	19.0 KG
T5 2 x 54W	18.0 KG	15.0 KG	18.0 KG	13.0 KG
T5 3 x 54W	–	–	28.0 KG	19.0 KG
T5 4 x 54W	27.0 KG	21.0 KG	28.0 KG	19.0 KG

Note: Emergency luminaires are 1 KG heavier than the standard shown above
Weights are for front access luminaires

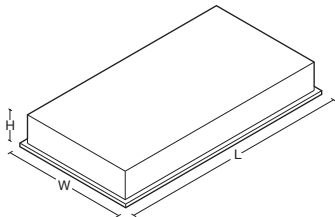
Dimensions

4 x 14/24W



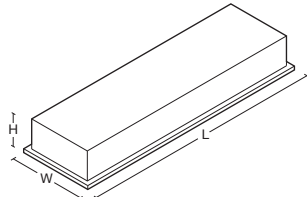
Version	W	L	H	Prepared Aperture
Front Access	603	725	124	555 x 677 ⁻⁰ / ₊₅
Back Access	603	725	145	555 x 677 ⁻⁰ / ₊₅

4 x 28/54W
3 x 54W



Version	W	L	H	Prepared Aperture
Front Access	603	1325	124	555 x 1277 ⁻⁰ / ₊₅
Back Access	603	1325	145	555 x 1277 ⁻⁰ / ₊₅

2 x 28/54W



Version	W	L	H	Prepared Aperture
Front Access	370	1325	124	322 x 1277 ⁻⁰ / ₊₅
Back Access	370	1325	145	322 x 1277 ⁻⁰ / ₊₅

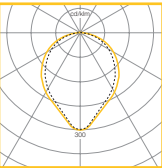
Ceiling Integration

Refer to common ceiling compatibility matrix –
See page 404

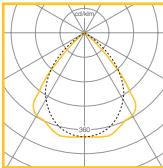
Plasterboard

Prepared aperture

Photometric Performance



4 x 14W T5
Prismatic
• LOR = 67.6%
• SHR MAX = 1.39



4 x 14W T5
Louvre/glass
• LOR = 57.8%
• 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	0.46	0.65	0.70

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.47	0.60	0.63

To Specify

Recessed non-modular T5 clean room luminaire for prepared aperture ceilings to a BSI tested and certified construction as IP65 frame on IP54 frame off with twin in line extruded aluminium frames with angled integration and concealed front frame fixings. Suspension via solid aluminium jacking brackets adjusted from inside the luminaire (front access) or room above (back access) – as Whitcroft Lighting DTFN ELITE T5