

DFTN elite T5

Clean area: IP65/54 Non-modular recessed T5 clean room luminaire - updated November 2008



DFTN Elite

APPLICATION

- IP65/54 protection, a gap free front face, rapid maintenance features and concealed front frame fixings makes DFTN Elite ideally suitable for clean rooms with non modular ceilings, classified up to EEC GMP Class C or FS209D Class 1,000 and ACDP Class 1 & 2
- DFTN is recommended for rooms up to FS209D Class 10,000
- Cut and prepared aperture ceilings and sandwich panels with capped aperture reinforcements up to a depth of 90mm front and 110mm back access or 153mm front and 173mm back access with special bracket
- Pharmaceutical
- Clean manufacturing
- Healthcare
- Food processing

SPECIFICATION

- Lamp options:
 - 4 x 14 or 24W T5
 - 2 or 4 x 28W T5
 - 2, 3 or 4 x 54W T5
 - T5 lamps giving excellent colour rendition and 20,000 hours rated life
 - Front access or back access (Fixings on back of lid and retaining the front access facility)
 - Hinged lid on dual access versions
 - 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
 - Solid aluminium side arm jacking brackets adjusted from within the sealed body (from the room above for back access versions)
 - High frequency gear, 3 hour integral emergency (when required) mounted on a gear tray
 - All optics are TP(a) rated
 - Cat 2 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

- Concealed front frame fixings and White RAL 9016 full gloss frames as standard
- The diffuser clamping system is highly secure and will accept glass. The inner frame design facilitates diffuser replacement

- Fused terminal block
- Supplied without lamps – 4000K recommended in clean room applications



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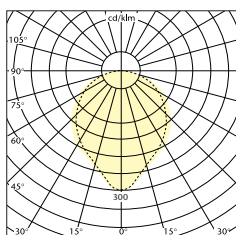
PHOTOMETRY

DTFN ELITE T5 PRISMATIC TP(a) 4 x 14W T5 Lamps



- LOR = 67.6%
- SHR MAX = 1.39

UTILISATION FACTORS UF(F)		SHR NOM=1.25									
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	0.39	0.46	0.51	0.54	0.59	0.63	0.65	0.68	0.70
0.50	0.30	0.20	0.33	0.40	0.45	0.49	0.53	0.57	0.60	0.63	0.65
0.00	0.00	0.00	0.28	0.34	0.39	0.42	0.47	0.51	0.53	0.56	0.58

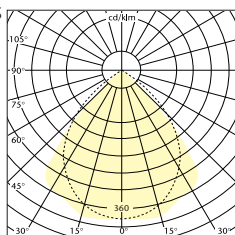


DTFN ELITE T5 CAT 2 LOUVRE/GLASS 4 x 14W T5 Lamps



- LOR = 57.8%
- SHR MAX = 1.55

UTILISATION FACTORS UF(F)		SHR NOM=1.50									
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	0.41	0.47	0.51	0.53	0.56	0.58	0.60	0.61	0.63
0.50	0.30	0.20	0.37	0.43	0.47	0.49	0.52	0.55	0.56	0.58	0.59
0.00	0.00	0.00	0.34	0.39	0.43	0.45	0.48	0.50	0.51	0.53	0.54

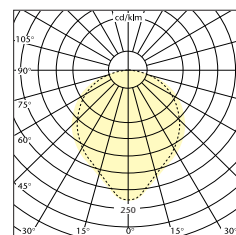


DTFN ELITE T5 PRISMATIC TP(a) 4 x 54W T5 Lamps



- LOR = 57.9%
- SHR MAX = 1.43

UTILISATION FACTORS UF(F)		SHR NOM=1.25									
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	0.33	0.39	0.43	0.46	0.50	0.53	0.55	0.58	0.60
0.50	0.30	0.20	0.28	0.34	0.38	0.41	0.45	0.49	0.51	0.54	0.56
0.00	0.00	0.00	0.23	0.29	0.33	0.36	0.40	0.43	0.45	0.48	0.50

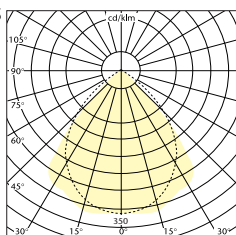


DTFN ELITE T5 CAT 2 LOUVRE/GLASS 4 x 28W T5 Lamps



- LOR = 55.2%
- SHR MAX = 1.55

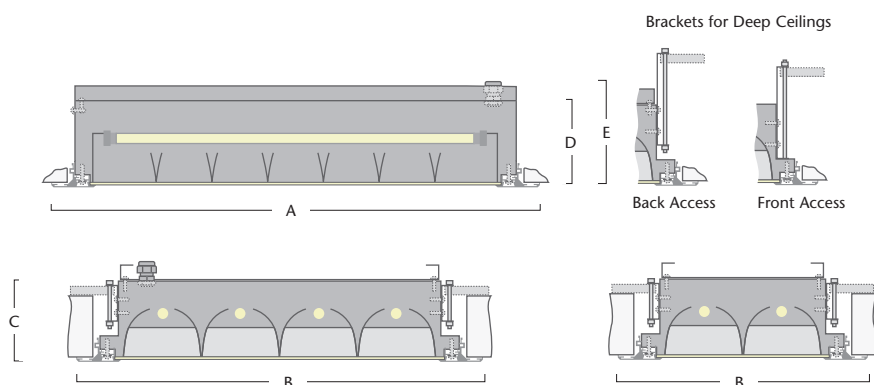
UTILISATION FACTORS UF(F)		SHR NOM=1.50									
Room Reflectance	Room Index										
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.39	0.45	0.48	0.50	0.54	0.56	0.57	0.59	0.60
0.50	0.30	0.20	0.36	0.41	0.44	0.47	0.50	0.52	0.53	0.55	0.56
0.00	0.00	0.00	0.32	0.37	0.41	0.43	0.46	0.48	0.49	0.50	0.51



LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	LAMP LIFE
1 x 14W T5	1200	—
1 x 24W T5	1750	20,000
1 x 28W T5	2600	—
1 x 54W T5	4450	—

DIMENSIONS



LAMP WAYS	LENGTH OVER FRONT FRAME TRANSVERSE MM A	LENGTH OVER FRONT FRAME AXIAL MM B	OVERALL DEPTH C	MAXIMUM DEPTH MM VOID CLEARANCE D	VOID CLEARANCE INC CABLE GLAND E	CUT APERTURE
4 x 14W	725	603	124 front	117 front	152 front	677 x 555
4 x 24W T5			access,	access,	access,	
2 x 28 or 54W T5	1325	370	145 dual	137 dual	N/A dual	1277 x 322
4 x 28W	1325	603	access	access	access	1277 x 555
3 or 4 x 54W T5						

Note For maximum fixing depths see application

ORDER CODES – DTFN ELITE T5

IP65/54 NON-MODULAR RECESSED T5 CLEAN ROOM LUMINAIRE

WHITE RAL 9016 FRAMES AND CONCEALED FIXINGS

SUPPLIED LESS LAMPS	CAT 2.200 LOUVRE ABOVE 4MM TOUGHENED GLASS	CAT 2.200 LOUVRE ABOVE 3MM CLEAR TP(a) RATED SHEET	PRISMATIC ACRYLIC ABOVE 4MM TOUGHENED GLASS	PRISMATIC TP(a) SINGLE SHEET
4 x 14W T5	DTFNWGH414	DTFNWFH414	DTFNAGH414	DTFNKH414
4 x 24W T5	DTFNWGH424	DTFNWFH424	DTFNAGH424	DTFNKH424
2 x 28W T5	DTFNWGH228	DTFNWFH228	DTFNAGH228	DTFNKH228
4 x 28W T5	DTFNWGH428	DTFNWFH428	DTFNAGH428	DTFNKH428
2 x 54W T5	DTFNWGH254	DTFNWFH254	DTFNAGH254	DTFNKH254
3 x 54W T5	–	–	DTFNAGH354	DTFNKH354
4 x 54W T5	DTFNWGH454	DTFNWFH454	DTFNAGH454	DTFNKH454

DEEP CEILING BRACKET for ceilings up to 153mm thick (front) and 170mm (back access) order separately as **150CBKT600** (14 and 24W lamps) and **150CBKT1200** (28 and 54W lamps)

ANALOGUE DIMMING Replace H in above codes with **R**

R Analogue dimming gear, i.e. **DTFNKR414**
Other regulating methods (digital DSI, DALI, Push Dim) available on request

BACK ACCESS Add suffix to order codes above

BA Back access, i.e. **DTFNWGH414BA**

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency, i.e. **DTFNWGH414EMIN**

Note: Through access versions of DTFN are available to facilitate maintenance of services in the located in the ceiling void – see the Healthcare section of the catalogue page 225

To specify state:

Recessed non-modular T5 clean room luminaire for cut/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 Whitecroft Lighting DTFN ELITE T5



Solid aluminium jacking bracket