

DTFN T5

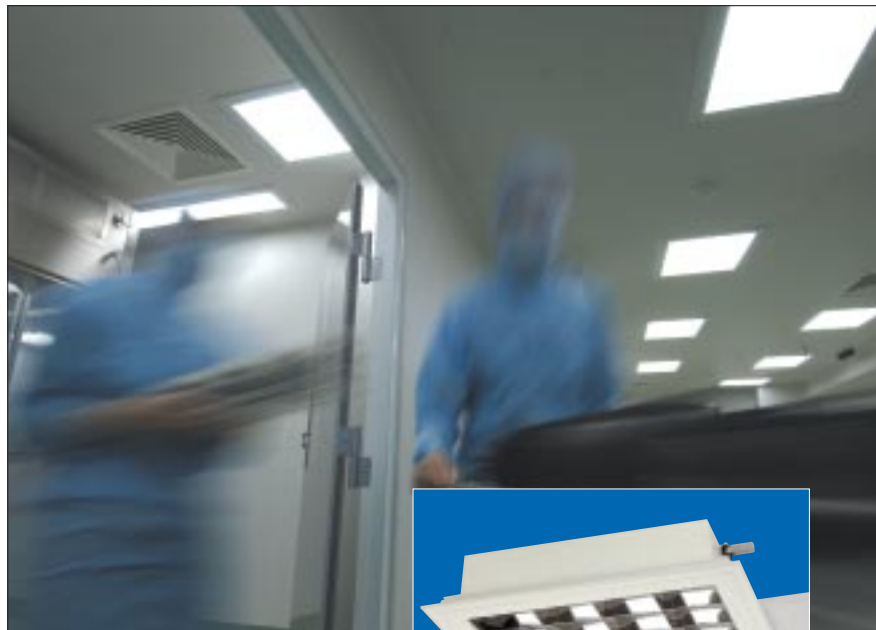
MOTIVATION

To provide the most versatile non modular purpose designed IP65/54 recessed clean room luminaire available with angled frame integration and capped fixings to provide a gap free front face.

A T5 lamp package and rapidly detachable and interchangeable gear/lamp trays are designed to reduce cost of ownership and clean room downtime.

APPLICATION

- Clean rooms with non modular ceilings classified up to EEC GMP Class C or FS209D class 1,000 and ACDP class 1 & 2
- Cut and prepared aperture ceilings and sandwich panels with capped aperture reinforcements up to a depth of 90mm front and 108mm back access or 153mm front and 170mm back access with special bracket
- Unclassified areas with non modular ceilings requiring a sterile environment such as hospital kitchens, operating theatres, pharmacies etc



DTFN in an FS200D class 10000 clean room with non modular ceiling.



DTFNWG414

SPECIFICATION

- Lamps 4 x 14/24W, 2/4 x 28/54W or 3 x 54W T5 giving excellent colour rendition and 20,000 hours rated life to 50% failure
 - Front access
 - Back access (Fixings on back of lid and retaining the front access facility)
- Hinged lid on dual access versions
- Concealed front frame fixings and white RAL 9016 full gloss frames as standard on all options.
- 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.
- Diffuser securely clamped but easily removable from frame for replacement
- Solid aluminium side arm jacking brackets adjusted from within the sealed body (from the room above back access)
- High frequency gear, 3 hour integral emergency (when required) and lamps on an interchangeable and rapidly detachable four point fix gear and lamp tray with plug socket
- All optics are TP(a) rated
 - Cat 2.200 louvre above 4mm toughened glass or clear fireguard material
 - Prismatic acrylic above 4mm toughened glass
 - Single sheet 3mm prismatic fireguard material
- Supplied without lamps – 4000°K recommended in clean room applications

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

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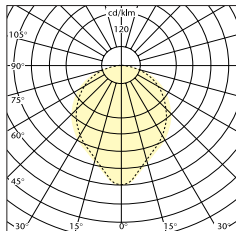
- other TP(a) are selected for best chemical resistance, if advice is needed contact the Whitecroft technical desk

- Fused terminal block



Solid aluminium jacking bracket

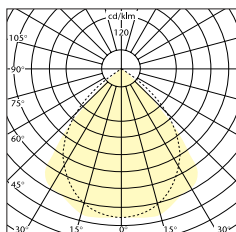
DTFN T5
600 x 600
Prismatic TP(a)
4 x 14W T5
DTFNKH414



- 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		

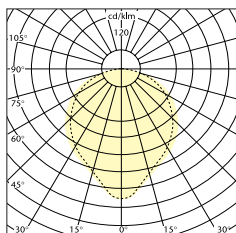
DTFN T5
600 x 600
Cat 2 Louvre/Glass
4 x 14W T5
DTFNWGH414



- 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		

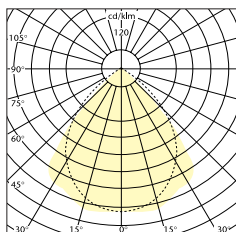
DTFN T5
1200 x 600
Prismatic TP(a)
4 x 54W T5
DTFNKH454



- 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 T5
1200 x 600
Cat 2 Louvre/Glass
4 x 28W T5
DTFNWGH428



- 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		

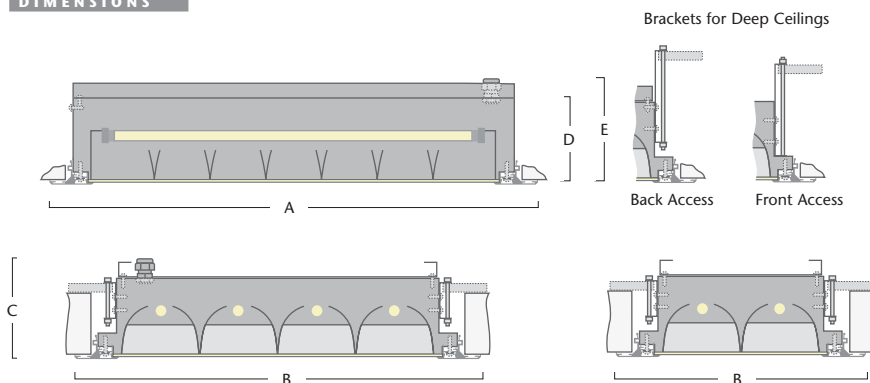


Lighting for Life

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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
4 x 14W	725	603	124 front access,	117 front access,	144.2 Front Access
4 x 24W – T5					
2 x 28/54W – T5	1325	370	145 dual access	137 dual access	
4 x 28W	1325	603			
3/4 x 54W – T5					Back Access

Note For maximum fixing depths see application

LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	TOTAL CIRCUIT WATTS	LUMENS PER CIRCUIT WATT	LAMP LIFE TO 50% FAILURE
4 x 14W – T5	4800	66	73	20,000
4 x 24W – T5	7000	94	74	
2 x 28W – T5	5200	62	84	
4 x 28W – T5	10400	124	84	
2 x 54W – T5	8900	118	75	
3 x 54W – T5	13350	178	75	
4 x 54W – T5	17800	236	75	

Note Recommended scheduled lamp replacement at 80% of rated life = 16000 hours

DTFN T5

ORDER CODES

IP65/54 NON-MODULAR RECESSED T5 CLEAN ROOM LUMINAIRE

WHITE RAL 9016 FRAMES AND CONCEALED FIXINGS

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	not available		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** (pack of 4 for – 14 and 24W lamps) and **150CBKT1200** (pack of 6 for 28 and 54W lamps)

REGULATING (Dimming) gear – Replace H in above codes with **R**

R Regulating gear 1 – 10v dc analogue input level as standard e.g. **DTFNKR414**

Other regulating methods (digital DSI, DALI, SwitchControl, COMET) available on request.

AAS anodised frames and exposed fixings on front access versions only Add suffix to order codes above

EF Exposed fixings e.g. DTFNKGH414**EF**

BACK ACCESS Add suffix to order codes above

BA Back access e.g. DTFNKGH414**BA**

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency e.g. DTFNKGH414**BAEMIN**

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.

Note: To minimise down time of Clean Rooms the complete lamp and gear tray assembly can be removed as one unit. Complete gear tray assemblies can be ordered separately, ready for quick changeover. Because of issues of battery life we do not recommend emergency versions of gear trays be held as spares.

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 T5.