

DTFN T5 Through Access

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.

This luminaire has the added facility of access to void via the luminaire

APPLICATION

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

SPECIFICATION

- Lamps 4 x 28W and 3/4 x 54W T5 giving excellent colour rendition and 20,000 hours rated life to 50% failure.
 - Front access with the fixings inside the sealed lid to provide void access
- Hinged lid
- Concealed front frame fixings and white RAL 9016 full gloss frames as standard on all options. Satin silver AA5 anodised and exposed screws optional.
- 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
- 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 3mm fireguard material
 - Prismatic acrylic above 4mm toughened glass
 - Single 3mm sheet prismatic fireguard material

Note a glass front face resists all cleaning chemicals and is best for a sterile environment if advice is needed contact the Whitecroft technical desk

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



The luminaire provides access to void surfaces.



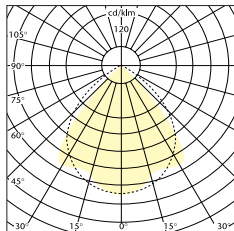
DTFNWGH428TA



Solid aluminium jacking bracket

DTFN T5 THROUGH ACCESS

1200 x 600
Cat 2 Louvre/Clear
TP(a) sheet
4 x 28W T5
DTFNWFH428TA

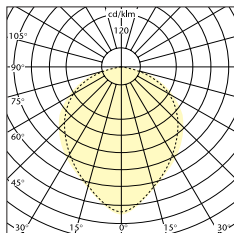


- LOR = 61.5
- SHR MAX = 1.55

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	0.43	0.49	0.53	0.56	0.60	0.62	0.63	0.65	0.66		
0.50	0.30	0.20	0.39	0.45	0.49	0.52	0.55	0.58	0.59	0.61	0.63		
0.00	0.00	0.00	0.35	0.41	0.45	0.47	0.51	0.53	0.54	0.56	0.57		

DTFN T5 THROUGH ACCESS

1200 x 600
Prismatic TP(a)
4 x 28W T5
DTFNKH428TA

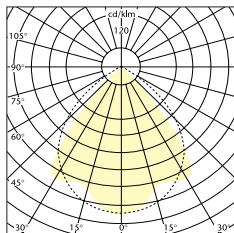


- LOR = 64.7
- SHR MAX = 1.42

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	0.37	0.43	0.48	0.52	0.56	0.60	0.62	0.65	0.67		
0.50	0.30	0.20	0.31	0.38	0.42	0.46	0.51	0.54	0.57	0.60	0.62		
0.00	0.00	0.00	0.26	0.32	0.37	0.40	0.45	0.48	0.50	0.54	0.56		

DTFN T5 THROUGH ACCESS

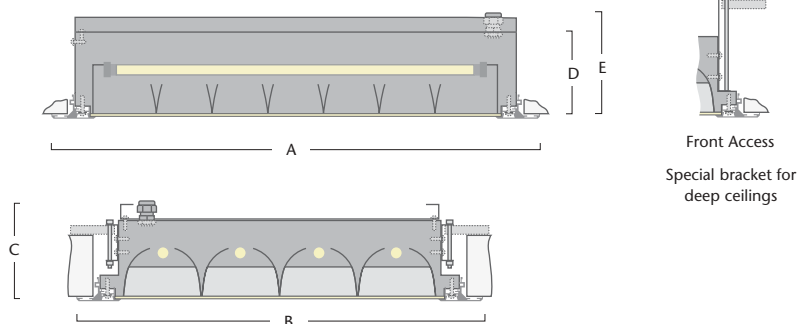
1200 x 600
Cat 2 Louvre/Clear
TP(a) sheet
4 x 54W T5
DTFNWFH454TA



- LOR = 54.3
- SHR MAX = 1.51

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	0.38	0.44	0.47	0.49	0.53	0.55	0.60	0.58	0.59		
0.50	0.30	0.20	0.35	0.40	0.43	0.46	0.49	0.51	0.53	0.54	0.55		
0.00	0.00	0.00	0.31	0.36	0.40	0.42	0.45	0.47	0.48	0.49	0.50		

DIMENSIONS



LAMP WAYS	LENGTH OVER FRONT FRAME TRANSVERSE MM A	LENGTH OVER FRONT FRAME AXIAL MM B	OVERALL DEPTH C	MAXIMUM VOID CLEARANCE D	MAXIMUM VOID CLEARANCE OVER GLAND E
4 x 28W	1325	603	145	137	144.2
3/4 x 54W – T5	1325	603	45	137	144.2

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 28W – T5	10400	124	84	20,000
3 x 54W – T5	13350	177	75	
4 x 54W – T5	17800	236	75	

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

DTFN T5 Through Access

ORDER CODES

IP65/54 NON-MODULAR RECESSED T5 CLEAN ROOM THROUGH ACCESS LUMINAIRE

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 28W – T5	DTFNWGH428TA	DTFNWFH428TA	DTFNAGH428TA	DTFNKH428TA
3 x 54W – T5	DTFNWGH354TA	DTFNWFH354TA	DTFNAGH354TA	DTFNKH354TA
4 x 54W – T5	DTFNWGH454TA	DTFNWFH454TA	DTFNAGH454TA	DTFNKH454TA

DEEP CEILING BRACKET for ceilings up to 153mm thick (front) and 170mm (back access) order separately as **150CBKT1200** (pack of 6) for 28 and 54W lamps.

AAS anodised frames and exposed fixings Add suffix to order codes above

EF Exposed fixings e.g. DTFNWFH428TAEF

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

R Regulating gear 1 – 10v dc analogue input level as standard e.g. DTFNKR428TA

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

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency e.g. DTFNWFH428TAE MIN

Note: The standard DTFN range is detailed in the clean area 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. The luminaire is to provide access to void services. Suspension via solid aluminium jacking brackets adjusted from inside the luminaire (front access) or room above (back access). – as Whitecroft Lighting DTFN T5 Through Access.



Lighting for Life

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