

DTFA elite T5

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





DTFA Elite

APPLICATION

- IP65/54 protection, a gap free front face, rapid maintenance features, and concealed front frame fixings offered on the DTFA Elite, make it ideally suitable for clean rooms with modular grid ceilings requiring recessed luminaires up to the most exacting requirements and ACDP class 1 & 2
- Standard DTFA is recommended for rooms up to FS209D class 10,000
- 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 only
 - Compatible with modular exposed T and spring T ceilings. Recessing panels are recommended on spring T ceilings to retain room integrity
 - Dual IP rated – to a BSI tested and certified construction as protecting the room to IP65 from void contamination with the front frame in place and IP54 with the frame removed
 - Extruded aluminium outer frame (gasketed to the T bar) and inner frame integrate in line but at an angle to eliminate a vertical gap
 - 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
- Fused terminal block
 - Supplied without lamps – 4000K recommended in clean room applications

- 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
- Robust extruded aluminium side arm cam brackets adjusted from outside the sealed body

DTFA elite T5

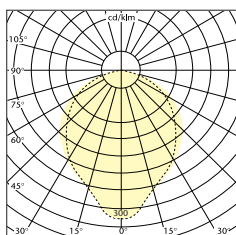
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PHOTOMETRY

DTFA Elite T5 PRISMATIC TP(a) 4 x 14W T5 Lamps



- LOR = 62.6%
- SHR MAX = 1.39

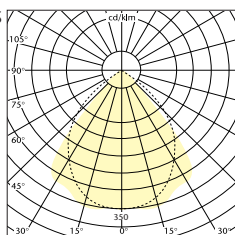


UTILISATION FACTORS UF(F) SHR NOM=1.25										
Room Reflectance Room Index										
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00 5.00
0.70	0.50	0.20	0.36	0.42	0.47	0.50	0.55	0.58	0.60	0.63 0.65
0.50	0.30	0.20	0.30	0.37	0.41	0.45	0.50	0.53	0.55	0.58 0.60
0.00	0.00	0.00	0.26	0.32	0.36	0.39	0.44	0.47	0.49	0.52 0.54

DTFA Elite T5 CAT 2 LOUVRE/GLASS 4 x 14W T5 Lamps



- LOR = 53.5%
- SHR MAX = 1.55

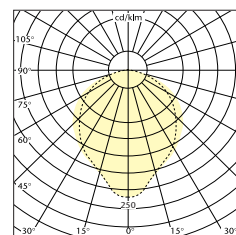


UTILISATION FACTORS UF(F) SHR NOM=1.50										
Room Reflectance Room Index										
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00 5.00
0.70	0.50	0.20	0.38	0.43	0.47	0.49	0.52	0.54	0.55	0.57 0.58
0.50	0.30	0.20	0.35	0.40	0.43	0.45	0.49	0.51	0.52	0.54 0.55
0.00	0.00	0.00	0.31	0.36	0.39	0.41	0.44	0.46	0.47	0.49 0.50

DTFA Elite T5 PRISMATIC TP(a) 4 x 54W T5 Lamps



- LOR = 56.1%
- SHR MAX = 1.43

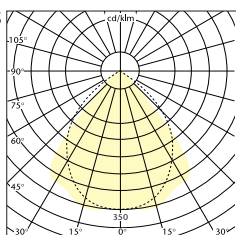


UTILISATION FACTORS UF(F) SHR NOM=1.25										
Room Reflectance Room Index										
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00 5.00
0.70	0.50	0.20	0.32	0.37	0.42	0.45	0.49	0.52	0.54	0.56 0.58
0.50	0.30	0.20	0.27	0.33	0.37	0.40	0.44	0.47	0.49	0.52 0.54
0.00	0.00	0.00	0.22	0.28	0.32	0.35	0.39	0.42	0.44	0.46 0.48

DTFA Elite T5 CAT 2 LOUVRE/GLASS 4 x 28W T5 Lamps



- LOR = 53.5%
- SHR MAX = 1.55

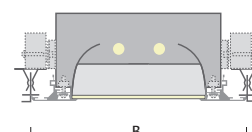
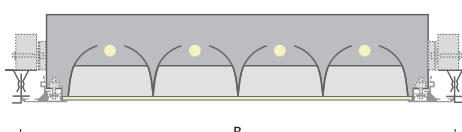


UTILISATION FACTORS UF(F) SHR NOM=1.50										
Room Reflectance Room Index										
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00 5.00
0.70	0.50	0.20	0.38	0.43	0.47	0.49	0.52	0.54	0.55	0.57 0.58
0.50	0.30	0.20	0.35	0.40	0.43	0.45	0.49	0.51	0.52	0.54 0.55
0.00	0.00	0.00	0.31	0.36	0.39	0.41	0.44	0.46	0.47	0.49 0.50

LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	LAMP LIFE
1 x 14W T5	1200	20,000 —
1 x 24W T5	1750	
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
4 x 14W	598	598	124		117
4 x 24W T5					
2 x 28 or 54W T5	1198	298			
4 x 28W	1198	598			
3 or 4 x 54W T5					

ORDER CODES – DTFA ELITE T5

IP65/54 MODULAR RECESSED T5 CLEAN ROOM LUMINAIRE

WHITE RAL 9016 FRAMES AND CONCEALED FIXINGS

SUPPLIED LESS LAMPS	CAT 2 LOUVRE ABOVE 4MM TOUGHENED GLASS	CAT 2 LOUVRE ABOVE 3MM CLEAR TP(a) RATED SHEET	PRISMATIC ACRYLIC ABOVE 4MM TOUGHENED GLASS	PRISMATIC TP(a) SINGLE SHEET
4 x 14W T5	DTFAWGH414	DTFAWFH414	DTFAAGH414	DTFAKH414
4 x 24W T5	DTFAWGH424	DTFAWFH424	DTFAAGH424	DTFAKH424
2 x 28W T5	DTFAWGH228	DTFAWFH228	DTFAAGH228	DTFAKH228
4 x 28W T5	DTFAWGH428	DTFAWFH428	DTFAAGH428	DTFAKH428
2 x 54W T5	DTFAWGH254	DTFAWFH254	DTFAAGH254	DTFAKH254
3 x 54W T5	–	–	DTFAAGH354	DTFAKH354
4 x 54W T5	DTFAWGH454	DTFAWFH454	DTFAAGH454	DTFAKH454

RECESSING PANEL to retain room integrity on spring T ceilings – Order separately as **RP600x600** (for 14 and 24W lamp options), **RP300x1200** (for 28 and 54 'twin' lamp options) and **RP600x1200** (for 28 and 54 'three and four lamp options')

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

R Analogue dimming gear, i.e. **DTFAKR414**
Other regulating methods (digital DSI, DALI, Push Dim) available on request

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency, i.e. **DTFAWGH414EMIN**

To specify state:

Recessed modular T5 clean room luminaire 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 robust aluminium cam brackets adjusted from outside the luminaire – as Whitecroft Lighting DTFA ELITE T5



Cam jacking bracket



Diffuser option



DTFA with AF frame