

Curie *Elite T5*

MOTIVATION

To provide a purpose designed **non modular** IP65/65 recessed clean room luminaire with a smooth crevice free front face to meet the most exacting requirements encountered in classified clean area

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

APPLICATION

- Any class of clean room or containment facility requiring a recessed non-modular luminaire up to the most exacting requirement. For FS209D class 100 and 1000 cleanrooms or equivalent and ACDP class 3 and 4, glass diffusers are recommended for ease of cleaning and rigidity
- 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.



Aseptic manufacturing area to class 10,000, class 100 in LAF area



Curie CUWGH414

SPECIFICATION

- Lamps 4 x 14/24W, 2/4 x 28/54W and 3 x 54W T5 giving excellent colour rendition and 20,000 hours rated life to 50% failure
- Concealed front frame fixings on front access versions, hinged lid but no front fixings on back access
- Dual IP rated – to a BSI tested and certified construction as protecting the room to IP65 from void contamination with the front frame on or off
- Triple flipper thermoplastic rubber seal with welded corners to best cope with ceiling irregularity and maintain maximum room integrity
- Shallow profile extruded aluminium diffuser frame with fully welded and finished corners finished white to RAL 9016 full gloss with a facility to remove and replace glass or diffusers
- Diffuser securely clamped but easily removable from frame for replacement
- 0.9mm gauge fully welded and finished body
- Solid aluminium side arm jacking brackets adjusted from within the sealed body - front access/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 3mm fireguard material
 - Prismatic acrylic above 4mm toughened glass
 - Single sheet fireguard 3mm prismatic TP(a) rated material

Note

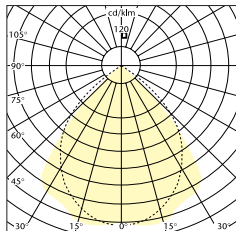
- a glass front face resists all cleaning chemicals and is best for a sterile environment. Other TP(a) materials are selected for best chemical resistance if advice is needed contact the Whitecroft technical desk
- Fused terminal block
 - Supplied without lamps - 4000°K recommended in clean room applications



Solid aluminium jacking bracket

Curie Elite T5

600 x 600
Cat 2 Louvre/Glass
4 x 14W T5 Lamp
CUWGH414

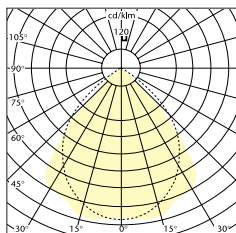


- LOR = 57.7
- SHR MAX = 1.55

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
0.70	0.50	0.20	0.41	0.47	0.50	0.53	0.56	0.58	0.60	0.61	0.62
0.50	0.30	0.20	0.37	0.43	0.46	0.49	0.52	0.54	0.56	0.58	0.59
0.00	0.00	0.00	0.34	0.39	0.42	0.45	0.48	0.50	0.51	0.53	0.54

Curie Elite T5

1200 x 600
Cat 2 Louvre/Glass
4 x 28W T5 Lamp
CUWGH428

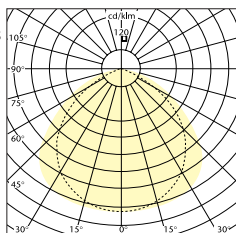


- LOR = 55.1
- SHR MAX = 1.55

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
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	0.47	0.49	0.50	0.51

Curie Elite T5

600 x 600
Prismatic Acrylic/Glass
4 x 14W T5 Lamp
CUAGH414

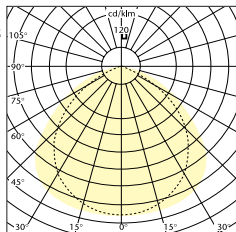


- LOR = 63.3
- SHR MAX = 1.72

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
0.70	0.50	0.20	0.43	0.48	0.52	0.55	0.59	0.62	0.64	0.66	0.67
0.50	0.30	0.20	0.38	0.43	0.47	0.51	0.55	0.57	0.59	0.62	0.63
0.00	0.00	0.00	0.34	0.39	0.43	0.46	0.49	0.52	0.53	0.56	0.57

Curie Elite T5

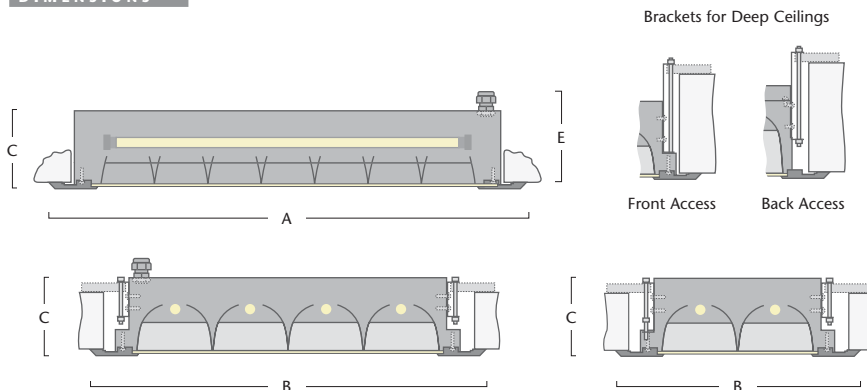
1200 x 600
Prismatic Acrylic/Glass
4 x 54W T5 Lamp
CUAGH454



- LOR = 60.5
- SHR MAX = 1.72

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
0.70	0.50	0.20	0.41	0.46	0.50	0.53	0.56	0.59	0.61	0.63	0.64
0.50	0.30	0.20	0.36	0.41	0.45	0.48	0.52	0.55	0.56	0.59	0.60
0.00	0.00	0.00	0.32	0.37	0.41	0.43	0.47	0.49	0.51	0.53	0.55

DIMENSIONS



LAMP WAYS	LENGTH OVER FRONT FRAME TRANSVERSE MM A	LENGTH OVER FRAME AXIAL MM B	OVERALL DEPTH C	MAXIMUM DEPTH MM VOID CLEARANCE D	VOID CLEARANCE INC CABLE GLAND E
4 x 14W	735	608	143	134.5	141.2
4 x 24W – T5			Back Access	Back Access	Back Access
2 x 28/54W – T5	1335	375			
4 x 28W	1335	608	123	114.5	141.2
3/4 x 54W – T5			Front Access	Front Access	Front 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	63	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 = 8000 hours.

Curie T5

ORDER CODES

IP65/65 NON MODULAR RECESSED T5 CLEAN ROOM LUMINAIRE

FRONT ACCESS

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
STANDARD LUMINAIRE				
4 x 14W – T5	CUWGH414	CUWFH414	CUAGH414	CUKH414
4 x 24W – T5	CUWGH424	CUWFH424	CUAGH424	CUKH424
2 x 28W – T5	CUWGH228	CUWFH228	CUAGH228	CUKH228
4 x 28W – T5	CUWGH428	CUWFH428	CUAGH428	CUKH428
2 x 54W – T5	CUWGH254	CUWFH254	CUAGH254	CUKH254
3 x 54W – T5	not available		CUAGH354	CUKH354
4 x 54W – T5	CUWGH454	CUWFH454	CUAGH454	CUKH454

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. **CUWGR414**

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

BACK ACCESS Add suffix to order codes above

BA Back access e.g. CUWGH414BA

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency e.g. CUWGH414BAEMIN

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 on commissioning as spares, 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 front (back) access T5 clean room luminaire for cut/prepared aperture ceilings. To a BSI tested and certified construction as IP65 frame on or off with fully welded body and front frame corners and triple contact welded TPR gasket.. Concealed or no front frame fixings, suspension via solid aluminium jacking bracket adjusted from (inside – front access, outside – back access) the luminaire. – as Whitecroft Lighting Curie T5.



Lighting for Life

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Clean area: IP20 Surface T5 teardrop clean room luminaire

Lamina T5

MOTIVATION

To provide a purpose designed and independently tested luminaire to ensure minimal disturbance in areas of uni-directional airflow with the low ownership costs associated with ease of maintenance features and the T5 lamp.

APPLICATION

- Clean rooms with uni-directional airflow, typically FS209D class 1, 10 and 100 or ISO Class 3, 4 and 5.



SPECIFICATION

- To suit 28W T5 HE and 54W T5 HO lamps
- Light output is affected by ambient air temperature and velocity. Based on uni-directional airflows of 0.5m per second at temperatures of 18°C we would expect similar efficiency from T5 and T8 Lamina luminaires. At 25°C T5 efficiency is likely to be >10% higher
- The 50mm wide body can be mounted directly on proprietary T bars of 50mm wide or greater with minimal disturbance to uni-directional airflow – independently tested by Diamond Scientific Limited
- Extruded aluminium body finished white to RAL 9016
- High frequency control gear and 3 hour integral emergency when required on rapidly detachable gear-tray retained by turnbuckles in the body profile
- Push fit Wieland connectors, females on gear tray and males on moulded cable for rapid maintenance and assembly
- Single (with knock out hole for end of row) and double (with cable hole for between 2 luminaires) moulded ABS end-caps
- Individual or continuous mounting (using intermediate connecting kit – LAMIK). Supply via knock out hole in end cap or via T bar cruciform into back of body – up to 30 luminaires off one feed
- UV absorbent internally reeded DEGALON diffuser (but if certain wavelengths of light must be removed for photosensitive applications the lamp must be appropriately UV sleeved and the diffuser dimensions accommodate this)
- Supplied without lamps



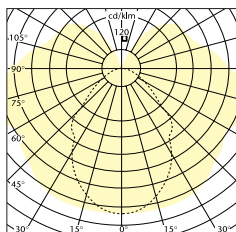
Lamina LAMD128

LAMINA T5

Clear Degalon
1 x 28W T5
LAMD128

- LOR = 98.1
- SHR MAX = 1.66
- DLOR = 0.696
- ULOR = 0.285

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	0.45	0.52	0.59	0.64	0.70	0.75	0.79	0.83	0.87	
0.50	0.30	0.20	0.34	0.41	0.46	0.51	0.57	0.62	0.65	0.70	0.74	
0.00	0.00	0.00	0.23	0.27	0.31	0.35	0.39	0.43	0.46	0.50	0.53	

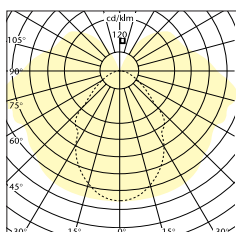


LAMINA T5

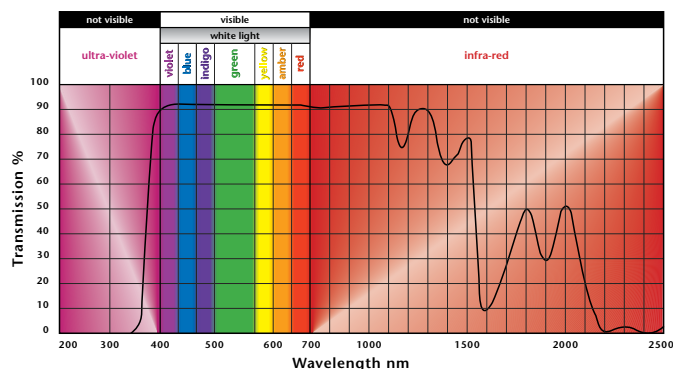
Clear Degalon
1 x 54W T5
LAMD154

- LOR = 88.3
- SHR MAX = 1.66
- DLOR = 0.626
- ULOR = 0.257

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	0.53	0.57	0.63	0.68	0.71	0.75	0.78	
0.50	0.30	0.20	0.31	0.36	0.42	0.46	0.52	0.56	0.59	0.63	0.66	
0.00	0.00	0.00	0.20	0.24	0.28	0.31	0.35	0.39	0.41	0.45	0.47	



UV Transmission ~ Standard Degalon Diffuser



DIMENSIONS



LAMP WAYS	LENGTH BETWEEN CENTRE LINES OF 2 DOUBLE END CAPS MM A	LENGTH OVER EXTRUSION MM B	END CAP WALL THICKNESS MM C
1 x 28 or 54W Standard	1200	1198	2
1 x 28 or 54W emergency	1500	1498	2

Note Individually mounted luminaires will be 2mm longer in overall length.

LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	TOTAL CIRCUIT WATTS	LUMENS PER CIRCUIT WATT	LAMP LIFE TO 50% FAILURE
1 x 28W – T5	2800	32	88	20,000
1 x 54W – T5	4450	60	74	

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

Lamina T5

ORDER CODES

IP20 SURFACE T5 TEARDROP CLEAN ROOM LUMINAIRE.

BODIES - Part codes cover luminaire body extrusion, gear tray and diffusers but exclude end caps and connecting cables

STANDARD	LAMP	EMERGENCY
LAMD128	1 x 28W T5	LAMD128E
LAMD154	1 x 54W T5	LAMD154E

CONNECTING KITS - order as separate items as needed

LAMIK	Intermediate kit – 1 x double end cap and 0.5m connecting cable with moulded Wieland plug both ends.
LAMEK	End kit – 2 x single end caps and 1.0m cable with moulded Wieland plug end and crimped wire at the other.

OPTION Add suffix to order codes above

I Individual luminaire e.g. LAMD128I



Lighting for Life

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To specify state:

Surface T5 teardrop luminaire with UV absorbent Degalon diffuser independently tested for minimum disturbance to uni-directional airflow. Extruded aluminium body, rapidly detachable gear-tray on turnbuckles, push fit Wieland connectors and moulded ABS end-caps. Width not to exceed 50mm and overall depth 115mm – as Whitecroft Lighting LAMINA T5.

Lister T5

MOTIVATION

To provide the most versatile purpose designed **modular** IP65/20 recessed clean room luminaire for applications when IP65 is required with the area in operation but where room integrity is not critical during lamp change. A T5 lamp package is designed to reduce cost of ownership.

APPLICATION

- Clean rooms with modular grid ceilings up to EEC GMP Class D or FS209D class 100,000
- Unclassified areas requiring a sterile environment such as hospital kitchens, operating theatres, pharmacies etc

SPECIFICATION

- Lamps 4 x 14/24W, 2/4 x 28/54W T5 & 3 x 54W giving excellent colour rendition and 20,000 hours rated life to 50% failure
- Front access only
- Compatible with modular exposed T and spring T ceilings. Recessing panels are recommended on spring T ceilings to retain room integrity
- Extruded aluminium frame finished white to RAL 9016 full gloss
- Diffuser securely clamped but easily removable from frame for replacement
- IP65 rated - to a BSI tested and certified construction as protecting the room to IP65 from void contamination with the front frame in place
- Rapid fix Lumafix sliding side support brackets adjusted from outside the body
- High frequency gear
- All optics are TP(a) rated
 - Single sheet 3mm prismatic fireguard material
- Fused terminal block
- Supplied without lamps - 4000°K recommended in clean room applications



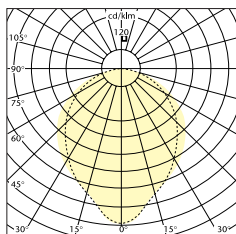
Food preparation area: Thames Valley Athletics Centre



Lister LSKH228

Lister T5

600 x 600
Prismatic TP(a)
4 x 14W T5 Lamp
LISKH414

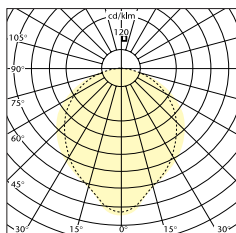


- LOR = 65.6
- SHR MAX = 1.39

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	0.37	0.44	0.49	0.53	0.57	0.61	0.63	0.66	0.68	
0.50	0.30	0.20	0.32	0.38	0.43	0.47	0.52	0.55	0.58	0.61	0.63	
0.00	0.00	0.00	0.27	0.33	0.38	0.41	0.46	0.49	0.51	0.55	0.57	

Lister T5

1200 x 600
Prismatic TP(a)
4 x 28W T5 Lamp
LISKH428

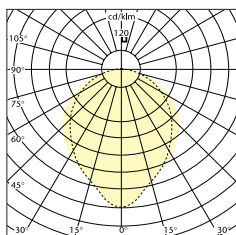


- LOR = 64.3
- SHR MAX = 1.42

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	0.36	0.43	0.49	0.51	0.56	0.59	0.62	0.65	0.66	
0.50	0.30	0.20	0.31	0.37	0.42	0.46	0.51	0.54	0.56	0.60	0.62	
0.00	0.00	0.00	0.26	0.32	0.37	0.40	0.45	0.48	0.51	0.53	0.55	

Lister T5

600 x 600
Prismatic TP(a)
4 x 24W T5 Lamp
LISKH424

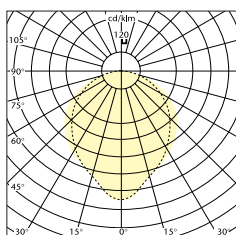


- LOR = 59.1
- SHR MAX = 1.40

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	0.34	0.40	0.41	0.47	0.52	0.55	0.57	0.59	0.61	
0.50	0.30	0.20	0.29	0.35	0.40	0.42	0.47	0.50	0.52	0.55	0.57	
0.00	0.00	0.00	0.24	0.30	0.34	0.37	0.41	0.44	0.46	0.49	0.51	

Lister T5

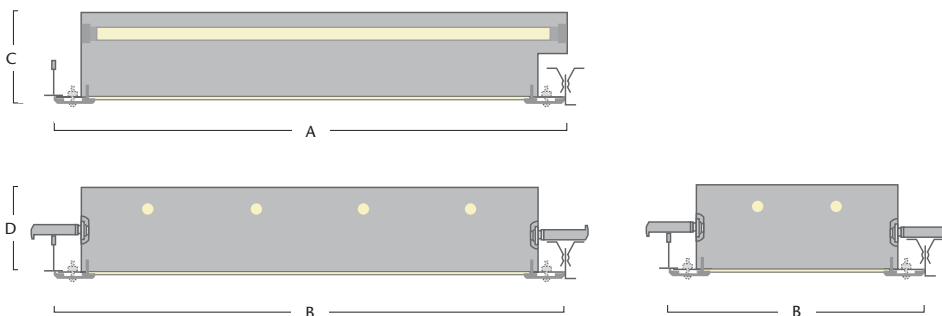
1200 x 600
Prismatic TP(a)
4 x 54W T5 Lamp
LISKH454



- LOR = 57.5
- 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	0.38	0.43	0.46	0.50	0.53	0.55	0.58	0.59	
0.50	0.30	0.20	0.27	0.33	0.38	0.41	0.45	0.48	0.50	0.53	0.55	
0.00	0.00	0.00	0.23	0.29	0.33	0.36	0.40	0.43	0.45	0.48	0.49	

DIMENSIONS



LAMP WAYS	LENGTH OVER FRONT FRAME TRANSVERSE MM A	LENGTH OVER FRONT FRAME AXIAL MM B	MAXIMUM DEPTH MM OVERALL DEPTH C	VOID CLEARANCE D
4 x 14/24W – T5	599	599	111	102
2 x 28/54W – T5	1199	299		
3 x 54W – T5	1199	599		
4 x 28/54W – T5	1199	599		

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	177	75	
4 x 54W - T5	17800	236	75	

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

Lister T5

ORDER CODES

IP65/520 MODULAR RECESSED T5 CLEAN ROOM LUMINAIRE

LAMPS

PRISMATIC TP(A) SINGLE SHEET

4 x 14W – T5	LISKH414
4 x 24W – T5	LISKH424
2 x 28W – T5	LISKH228
4 x 28W – T5	LISKH428
2 x 54W – T5	LISKH254
3 x 54W – T5	LISKH354
4 x 54W – T5	LISKH454

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)

DIMMING OPTIONS Digital and analogue dimming options available

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency e.g. LISKH414**EMIN**

NOTE 4 mm toughened glass with prismatic acrylic diffuser, (glass offers best resistance to all cleaning chemicals), is available on request.

To specify state:

Recessed modular T5 clean room luminaire to a BSI tested and certified construction as IP65 frame on with extruded aluminium frame, suspension via rapid fix Lumafix side support brackets adjusted from outside the luminaire. – as Whitecroft Lighting LISTER.



Lighting for Life

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Clean area: IP65/54 modular recessed T5 clean room luminaire

DTFA T5

MOTIVATION

To provide the most versatile purpose designed **modular** IP65/54 recessed clean room luminaire available with angled frame integration and concealed frame fixings as standard 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 modular grid ceilings requiring recessed luminaires up to the most exacting requirements and ACDP class 1 & 2
- Unclassified areas requiring a sterile environment such as hospital kitchens, operating theatres, pharmacies etc



Operating theatre: Great Ormond Street Hospital

SPECIFICATION

- Lamps 4 x 14/24W 2/4 x 28/54W and 3 x 54W T5 giving excellent colour rendition and 20,000 hours rated life to 50% failure
- Front access only
- Compatible with modular exposed T and spring T ceilings. Recessing panels are recommended on spring T ceilings to retain room integrity
- 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 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.
- Diffuser securely clamped but easily removable from frame for replacement
- Robust extruded aluminium side arm cam brackets adjusted from outside 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 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 – 4000°K recommended in clean room applications



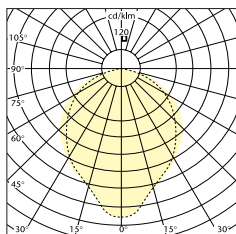
DTFAWGH414



Cam jacking bracket

DTFA T5

600 x 600
Prismatic TP(a)
4 x 14W T5 Lamp
DTFAKH414

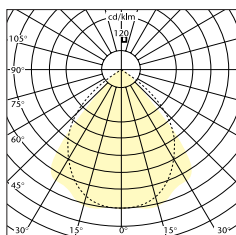


- LOR = 62.6
- SHR MAX = 1.39

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 T5

600 x 600
Cat 2 Louvre/Glass
4 x 14W T5 Lamp
DTFAWGH414

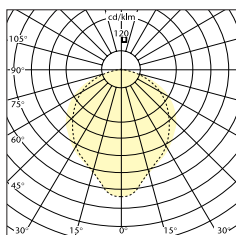


- LOR = 53.5
- SHR MAX = 1.55

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 T5

1200 x 600
Prismatic TP(a)
4 x 54W T5 Lamp
DTFAKH454

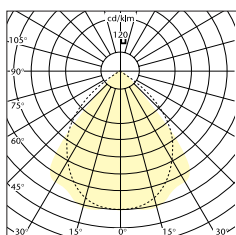


- LOR = 56.1
- SHR MAX = 1.43

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 T5

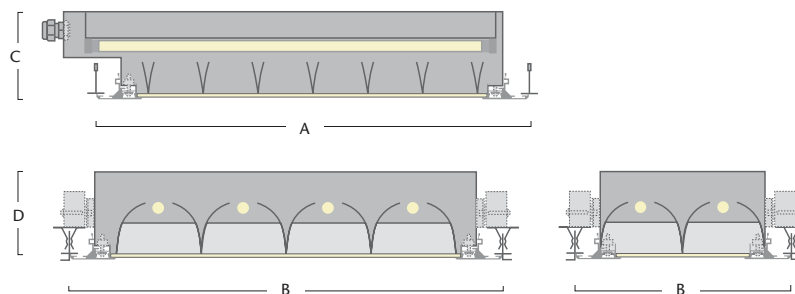
1200 x 600
Cat 2 Louvre/Glass
4 x 28W T5 Lamp
DTFAWGH428



- 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	0.51			

DIMENSIONS



LAMP WAYS	LENGTH OVER FRONT FRAME TRANSVERSE MM A	LENGTH OVER FRONT FRAME AXIAL MM B	MAXIMUM DEPTH MM OVERALL DEPTH C	VOID CLEARANCE D
4 x 14W	598	598		
4 x 24W – T5				
2 x 28/54W – T5	1198	298	124	117
4 x 28W	1198	598		
3/4 x 54W – T5				

LAMP PERFORMANCE MATRIX

WATTAGE	ILL@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

DTFA T5

ORDER CODES

IP65/54 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	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	not available		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')

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

R Regulating gear 1 – 10v dc analogue input level as standard e.g. DTFAKR414
Other regulating methods (digital DSI, DALI, SwitchControl, COMET) available on request

AAS ANODISED FRAMES AND EXPOSED FIXINGS Add suffix to order codes above

EF Exposed fixings e.g. DTFAWGR414**EF**

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency e.g. DTFAWGR414**EFEMIN**

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 on commissioning as spares, 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 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 T5.



Lighting for Life

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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

Note - a glass front face resists all cleaning chemicals and is best for a sterile environment

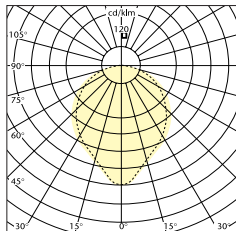
- other TP(a) are selected for best chemical resistance, if advice is needed contact the Whitecroft technical desk

- Fused terminal block



Solid aluminium jacking bracket

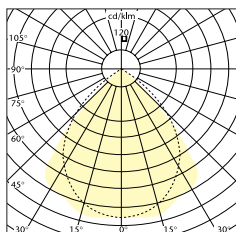
DTFN T5
600 x 600
Prismatic TP(a)
4 x 14W T5
DTFNKH414



- 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

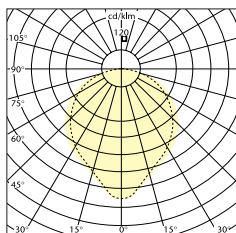
DTFN T5
600 x 600
Cat 2 Louvre/Glass
4 x 14W T5
DTFNWGH414



- 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

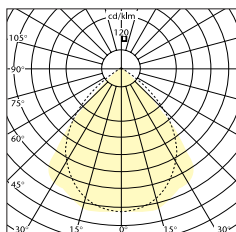
DTFN T5
1200 x 600
Prismatic TP(a)
4 x 54W T5
DTFNKH454



- 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

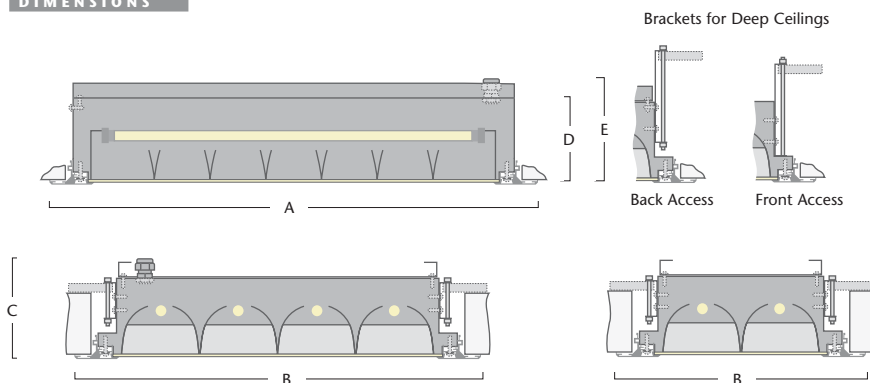


Lighting for Life

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www.LG3.co.uk

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.

Clean area: IP65/54 non modular recessed T5 through access clean room luminaire

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



The luminaire provides access to void surfaces.



DTFNWGH428TA

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

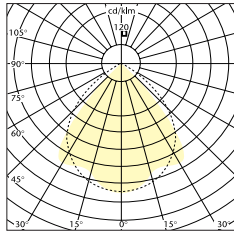
- Fused terminal block
- Supplied without lamps – 4000°K recommended in clean room applications



Solid aluminium jacking bracket

DTFN T5 THROUGH ACCESS

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

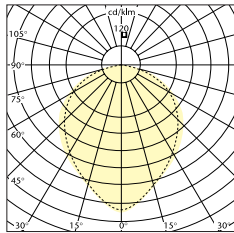


- LOR = 61.5
- SHR MAX = 1.55

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

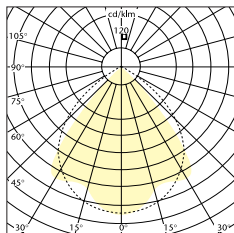


- LOR = 64.7
- SHR MAX = 1.42

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

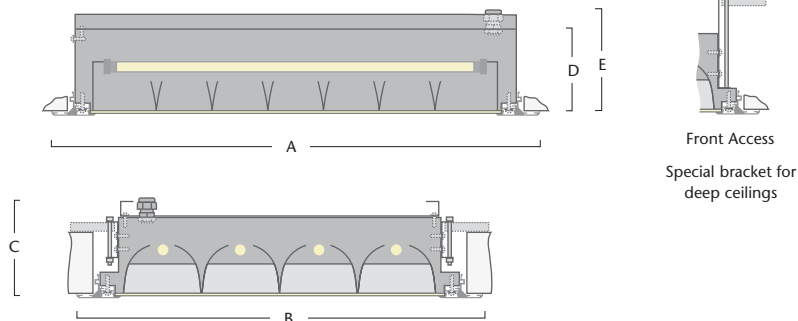
1200 x 600
Cat 2 Louvre/Clear
TP(a) sheet
4 x 54W T5
DTFNWFH454TA



- 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 DEPTH MM VOID CLEARANCE D	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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DTBY T5

MOTIVATION

To provide a surface luminaire purpose designed for clean environments with solid ceilings with welded corners and a frame and body integration designed to eliminate crevices.

APPLICATION

- Any non-unidirectional flow classified clean area requiring a surface luminaire
- Unclassified areas with solid ceilings requiring a sterile environment such as hospital kitchens, operating theatres, pharmacies etc
- Food process and chill stores (do not use glass diffuser options)

SPECIFICATION

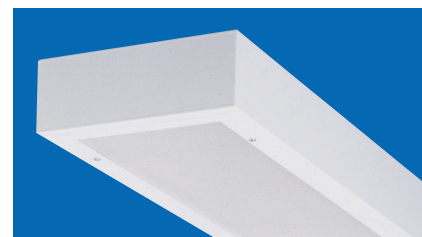
- Lamps 2 x 28/54W, T5 giving excellent colour rendition and 20,000 hours rated life to 50% failure
- Extruded aluminium frame finished white to RAL 9016 full gloss
- Designed to be mounted flush to the solid ceiling leaving no upward facing ledge. Mastic to be applied between luminaire and ceiling and washers to be employed to seal drop rod holes
- Diffuser securely clamped but easily removable from frame for replacement
- Body IP65 subject to the above, with fully welded corners in 0.9mm gauge steel finished white to RAL 9016 full gloss
- High frequency gear
- All materials are TP(a) rated except acrylic but TP(a) is not required by the Building regulations in surface luminaires
 - Cat 2.200 louvre above 4mm toughened glass (avoid in food process)
 - Cat 2.200 louvre above clear 3mm fireguard material
 - Single sheet 3mm prismatic fireguard material
 - Single sheet 3mm prismatic acrylic

Note – a glass front face resists all cleaning chemicals and is best for a sterile environment but should not be used in food process applications – if advice is needed contact the Whitecroft technical desk

- Fused terminal block
- Fully integral 3 hour emergency
- Supplied without lamps – 4000°K recommended in clean room applications

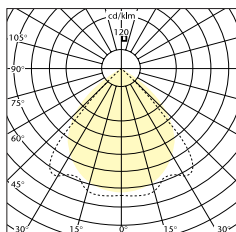


DTBY on a solid ceiling in a food process plant



DTBYK228

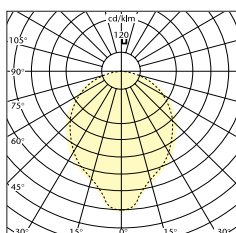
DTBY T5
1200 x 300
Cat 2 Louvre/Clear
TP(a) sheet
2 x 28W T5
DTBYWFH228



- LOR = 52.2
- SHR MAX = 1.60

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	0.36	0.42	0.45	0.47	0.50	0.52	0.54	0.55	0.56
0.50	0.30	0.20	0.33	0.38	0.41	0.44	0.47	0.49	0.50	0.52	0.53
0.00	0.00	0.00	0.29	0.34	0.38	0.40	0.43	0.45	0.46	0.47	0.48

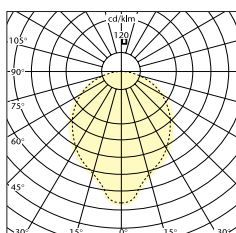
DTBY T5
1200 x 300
Prismatic TP(a)
2 x 28W T5
DTBYKH228



- LOR = 57.8
- SHR MAX = 1.37

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	0.47	0.51	0.54	0.56	0.58	0.60
0.50	0.30	0.20	0.28	0.34	0.38	0.42	0.46	0.49	0.51	0.54	0.56
0.00	0.00	0.00	0.24	0.30	0.34	0.36	0.41	0.43	0.46	0.48	0.50

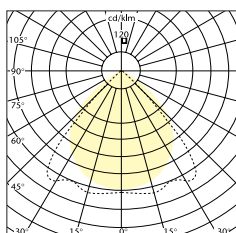
DTBY T5
1200 x 300
Prismatic TP(a)
2 x 54W T5
DTBYKH254



- LOR = 54.9
- SHR MAX = 1.37

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	0.41	0.44	0.48	0.51	0.53	0.55	0.57
0.50	0.30	0.20	0.27	0.33	0.36	0.39	0.44	0.46	0.49	0.51	0.53
0.00	0.00	0.00	0.23	0.28	0.32	0.35	0.39	0.41	0.43	0.46	0.47

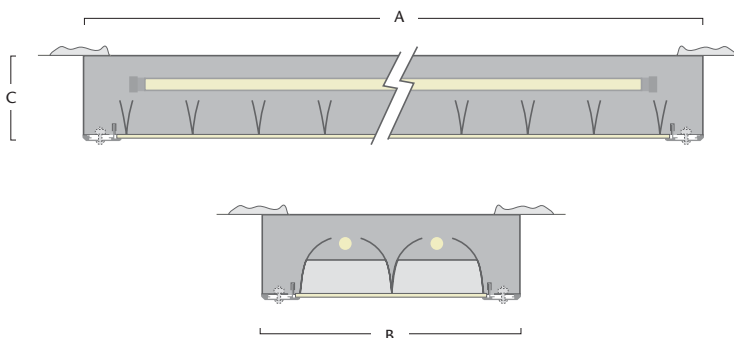
DTBY T5
1200 x 300
Cat 2 Louvre/Glass
2 x 28W T5
DTBYWGH228



- LOR = 53.7
- SHR MAX = 1.65

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	0.37	0.42	0.46	0.48	0.52	0.54	0.55	0.57	0.58
0.50	0.30	0.20	0.33	0.39	0.42	0.45	0.48	0.50	0.52	0.53	0.55
0.00	0.00	0.00	0.30	0.35	0.38	0.41	0.44	0.46	0.47	0.49	0.50

DIMENSIONS



LAMP WAYS	LENGTH OVER FRONT FRAME TRANSVERSE MM A	LENGTH OVER FRONT FRAME AXIAL MM B	OVERALL DEPTH C
2 x 28/54W – T5	1290	331.5	110

LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	TOTAL CIRCUIT WATTS	LUMENS PER CIRCUIT WATT	LAMP LIFE TO 50% FAILURE
2 x 28W – T5	5200	62	84	20,000
2 x 54W – T5	8900	118	75	

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

DTBY T5

ORDER CODES

IP65 SURFACE MOUNTED T5 CLEAN ROOM LUMINAIRE

LAMPS	CAT 2.200 LOUVRE ABOVE 4MM TOUGHENED GLASS	CAT 2.200 LOUVRE ABOVE 3MM CLEAR TP(a) SHEET	PRISMATIC TP(a) SINGLE SHEET	PRISMATIC TP(b) SHEET ACRYLIC SINGLE SHEET
2 x 28W – T5	DTBYWGH228	DTBYWFH228	DTBYKH228	DTBYAH228
2 x 54W – T5	DTBYWGH254	DTBYWFH254	DTBYKH254	DTBYAH254

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency e.g. DTBYWG228EMIN

DIMMING OPTIONS Digital and analogue dimming options available

To specify state:

Surface T5 clean room luminaire in 0.9mm gauge steel with fully welded corners, IP65 when the flat back is mastic sealed tight to the ceiling and fixing holes sealed with washers, extruded aluminium frame – as Whitecroft Lighting DTBY.



Lighting for Life

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