

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

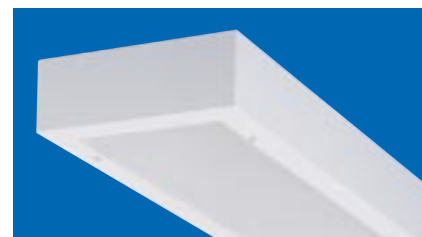
- Lamps 2 x 28/54W, T5 giving excellent colour rendition and 20,000 hours rated life to 50% failure
- Extruded aluminium frame finished white to RAL 9016 full gloss
- Designed to be mounted flush to the solid ceiling leaving no upward facing ledge. Mastic to be applied between luminaire and ceiling and 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

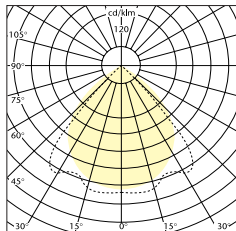


DTBY on a solid ceiling in a food process plant



DTBYK228

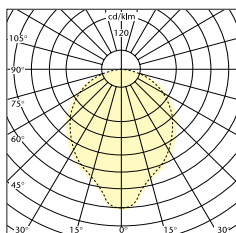
DTBY T5
1200 x 300
Cat 2 Louvre/Clear
TP(a) sheet
2 x 28W T5
DTBYWFH228



- 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	

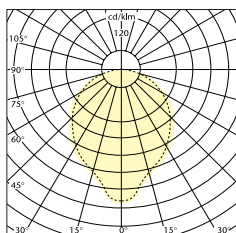
DTBY T5
1200 x 300
Prismatic TP(a)
2 x 28W T5
DTBYKH228



- 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	

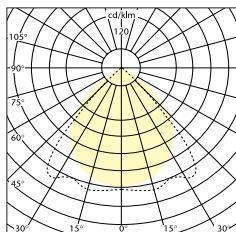
DTBY T5
1200 x 300
Prismatic TP(a)
2 x 54W T5
DTBYKH254



- 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	

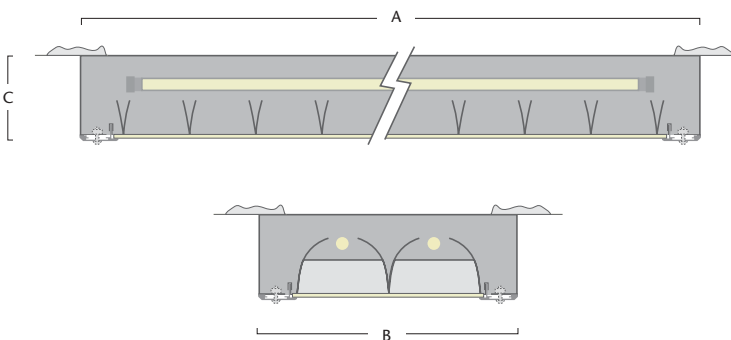
DTBY T5
1200 x 300
Cat 2 Louvre/Glass
2 x 28W T5
DTBYWGH228



- 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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