

DTBY

Clean area: IP65 Surface mounted clean room luminaire



APPLICATION

- Any non-unidirectional flow classified clean area requiring a surface luminaire
- Food process and chill stores (do not use glass diffuser options)
- Unclassified areas with solid ceilings requiring a sterile environment such as food processing, healthcare, pharmaceutical and clean manufacturing

SPECIFICATION

- Lamp options:
 - 2 x 28W T5
 - 2 x 54W T5
- T5 giving excellent colour rendition and 20,000 hours rated life
- Extruded aluminium frame finished White to RAL 9016
- 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
- High frequency control gear
- All materials are TP(a) rated except acrylic but TP(a) is not required by the Building Regulations in surface luminaires
 - Cat 2 louvre above 4mm toughened glass (avoid in food process)
 - Cat 2 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 – 4000K recommended in clean room applications

Options

- Easytest – integral self test version available see page 181

LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	LAMP LIFE
1 x 28W T5	2600	20,000
1 x 54W T5	4450	20,000

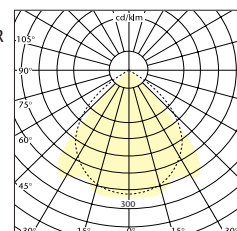
PHOTOMETRY

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1200 x 300
CAT 2 LOUVRE/CLEAR
TP(a) SHEET
2 x 28W T5 Lamps



- LOR = 52.2%
- SHR MAX = 1.60



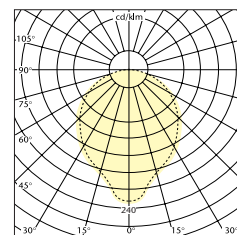
UTILISATION FACTORS UF(F)										SHR NOM=1.50	
Room Reflectance			Room Index								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.36	0.42	0.45	0.47	0.50	0.52	0.54	0.55	0.56
0.50	0.30	0.20	0.33	0.38	0.41	0.44	0.47	0.49	0.50	0.52	0.53
0.00	0.00	0.00	0.29	0.34	0.38	0.40	0.43	0.45	0.46	0.47	0.48

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1200 x 300
PRISMATIC TP(A)
2 x 54W T5 Lamps



- LOR = 54.9%
- SHR MAX = 1.37



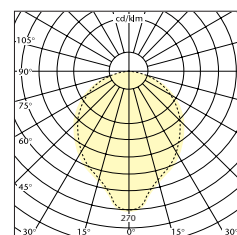
UTILISATION FACTORS UF(F)											SHR NOM=1.25
Room Reflectance			Room Index								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.32	0.37	0.41	0.44	0.48	0.51	0.53	0.55	0.57
0.50	0.30	0.20	0.27	0.33	0.36	0.39	0.44	0.46	0.49	0.51	0.53
0.00	0.00	0.00	0.23	0.28	0.32	0.35	0.39	0.41	0.43	0.46	0.47

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1200 x 300
PRISMATIC TP(A)
2 x 28W T5 Lamps



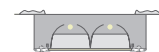
- LOR = 57.8%
- SHR MAX = 1.37



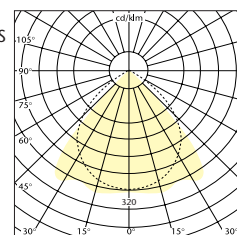
UTILISATION FACTORS UF(F)											SHR NOM=1.25
Room Reflectance			Room Index								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.33	0.39	0.43	0.47	0.51	0.54	0.56	0.58	0.60
0.50	0.30	0.20	0.28	0.34	0.38	0.42	0.46	0.49	0.51	0.54	0.56
0.00	0.00	0.00	0.24	0.30	0.34	0.36	0.41	0.43	0.46	0.48	0.50

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1200 x 300
CAT 2 LOUVRE/GLASS
2 x 28W T5 Lamps



- 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

	A	B	C
LAMPWAYS	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

ORDER CODES – DTBY

IP65 SURFACE MOUNTED T5 CLEAN ROOM LUMINAIRE

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

EMERGENCY Add suffix to order codes above, (not available in TP(b) version)

EMIN 3 hour integral emergency, i.e. **DTBYWG228EMIN**

EASYTEST OPTION Add suffix to order code above

/ET Integral self autotest, i.e. **DTBYWG228/ET**

DIMMING OPTIONS Digital and analogue dimming options available on request

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

QuickLink

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