

lister

Clean area: IP65/20 Modular recessed T5 clean room luminaire

APPLICATION

Applications where IP65 is required with the room in operation but where room integrity need not be protected during lamp change.

- Clean rooms with modular grid ceilings up to EEC GMP Class D or FS209D class 100,000
- Unclassified areas
- Pharmaceutical secondary packaging
- Food preparation

SPECIFICATION

- Lamp options:
 - 4 x 14W T5
 - 4 x 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
- Extruded aluminium frame finished White to RAL 9016
- 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 inside the body
- High frequency gear
- All optics are TP(a) rated
 - Single sheet 3mm prismatic fireguard material
- Fused terminal block
- Supplied without lamps – 4000K recommended in clean room applications

Options

-  Easytest – integral self test version available see page 181



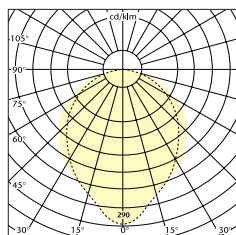
PHOTOMETRY

Lister T5
600 x 600
PRISMATIC TP(A)
4 x 14W T5 Lamps



- 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	

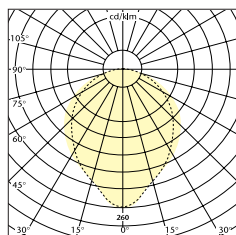


Lister T5
600 x 600
PRISMATIC TP(A)
4 x 24W T5 Lamps



- 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	

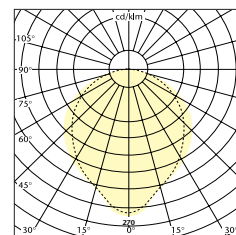


Lister T5
1200 x 600
PRISMATIC TP(A)
4 x 28W T5 Lamps



- 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	

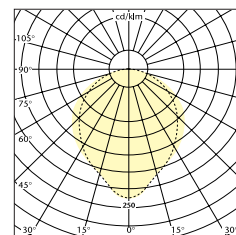


Lister T5
1200 x 600
PRISMATIC TP(A)
4 x 54W T5 Lamps

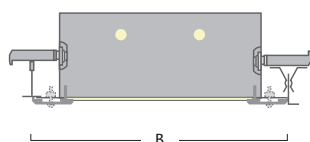
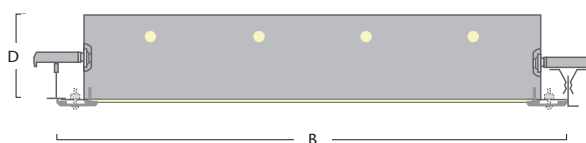


- LOR = 57.5%
- SHR MAX = 1.43

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



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

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	

ORDER CODES – LISTER T5

IP65/IP20 MODULAR RECESSED T5 CLEAN ROOM LUMINAIRE

SUPPLIED LESS 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 on request

EMERGENCY Add suffix to order codes above

EMIN 3 hour integral emergency, i.e. **LISKH414EMIN**

EASYTEST OPTION Add suffix to order code above

/ET Integral self autotest, i.e. **LISKH414/ET**

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 inside the luminaire – as Whitecroft Lighting LISTER