

lamina

Clean area: IP20 Surface T5 teardrop clean room luminaire



APPLICATION

- Micro-electronic
- Clean rooms with uni-directional airflow, typically FS209D class 1, 10 and 100 or ISO Class 3, 4 and 5
- Independently tested to prove minimum disturbance to uni-directional airflow

SPECIFICATION

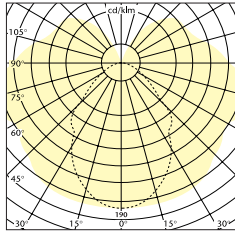
- To suit 28W T5 and 54W T5 lamps
- Light output is affected by ambient air temperature and velocity. Based on uni-directional airflows of 0.5m/s at temperatures of 18°C we would expect similar efficiency from T5 and T8 Lamina luminaires. At 25°C T5 efficiency is likely to be >10% higher
- The 50mm wide 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 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

PHOTOMETRY

Lamina T5 Clear Degalon 1 x 28W T5 Lamp



- LOR = 98.1%
- SHR MAX = 1.66

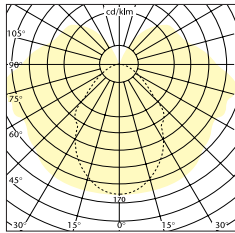


UTILISATION FACTORS UF(F)		SHR NOM=1.50									
Room Reflectance		Room Index									
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.45	0.52	0.59	0.64	0.70	0.75	0.79	0.83	0.87
0.50	0.30	0.20	0.34	0.41	0.46	0.51	0.57	0.62	0.65	0.70	0.74
0.00	0.00	0.00	0.23	0.27	0.31	0.35	0.39	0.43	0.46	0.50	0.53

Lamina T5 Clear Degalon 1 x 54W T5 Lamp



- LOR = 88.3%
- SHR MAX = 1.66



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

DIMENSIONS

50



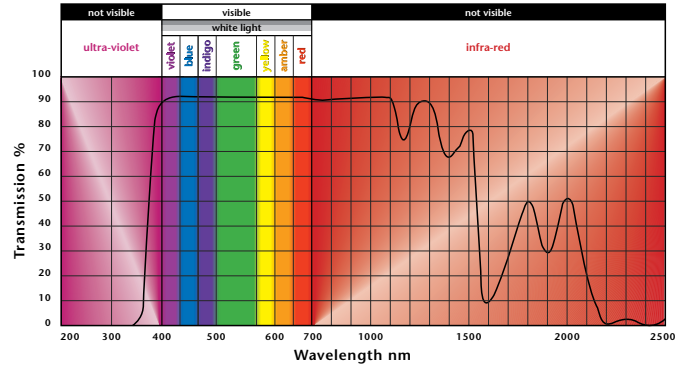
115



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

UV TRANSMISSION – STANDARD DEGALON DIFFUSER



LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	LAMP LIFE
1 x 28W T5	2800	20,000
1 x 54W T5	4450	20,000

ORDER CODES LAMINA

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

SUPPLIED LESS LAMPS	STANDARD	EMERGENCY
1 x 28W T5	LAMD128	LAMD128E
1 x 54W T5	LAMD154	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

If an individual luminaire is required, order the required luminaire and LAMEK

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