

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

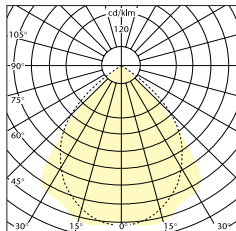
- a glass front face resists all cleaning chemicals and is best for a sterile environment. Other TP(a) materials are selected for best chemical resistance if advice is needed contact the Whitecroft technical desk
- Fused terminal block
 - Supplied without lamps - 4000°K recommended in clean room applications



Solid aluminium jacking bracket

Curie Elite T5

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

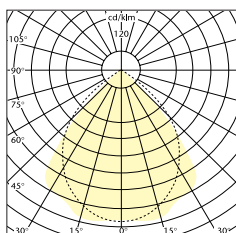


- LOR = 57.7
- SHR MAX = 1.55

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

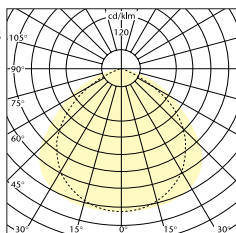


- LOR = 55.1
- SHR MAX = 1.55

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

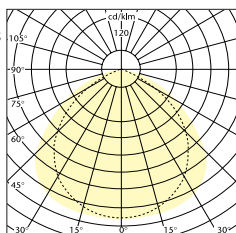


- LOR = 63.3
- SHR MAX = 1.72

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

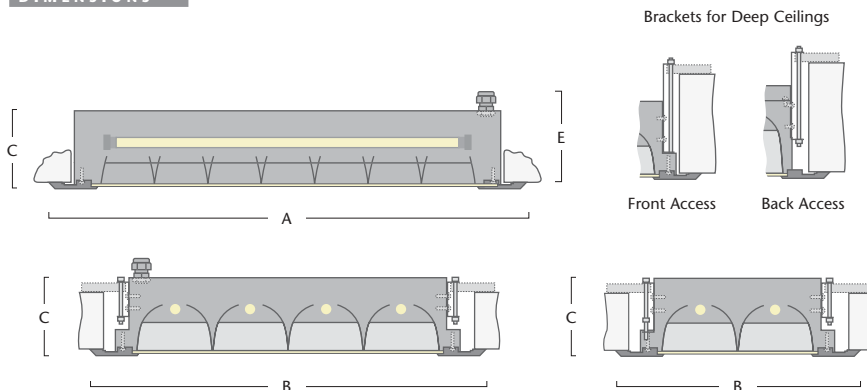


Lighting for Life

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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.