

HDU

Healthcare: IP65/54 High dependency unit luminaire

APPLICATION

To provide a multi-function purpose designed luminaire meeting CIBSE recommendations for high dependency units in hospitals by delivering the precise light levels needed for inspection (1000 lux) and normal day time and night time observation. To ensure infection control the luminaire is manufactured to exacting clean room standards minimising grooves and crevices. A dual IP65/54 rating minimises the risk of any contamination from the void.

- Purpose designed with no compromise to meet the exacting requirements of high dependency, intensive care and critical care units in hospitals
- This luminaire is available in two versions, (a) to suit modular ceilings and (b) to suit non-modular cut aperture ceilings

SPECIFICATION

- Lamp option – 4 x 55W TC-L
- 2 x 55W lamps controlled by high frequency dimming gear with semi-specular cross blade louvre delivering a sharp cut off for maximum patient comfort
- 3 pre-set light levels by means of a 3 position switch (not supplied):
 - Low for watchlight (5 - 10 Lux)
 - Medium for patient rest (30 - 50 Lux)
 - High for examination (300 Lux)
- 2 x 55W lamps controlled by high frequency gear with reflector and twin sheet Tp(a) rated diffuser for best visual comfort – used with the above at full output for examination
- The diffuser is smooth face to room for ease of cleaning
- Dual IP rated to avoid any ingress of contamination from the void – IP65 frame on, IP54 during lamp change – a luminaire of identical construction (DTFA/N Elite) is BSI IP65/54 certified
- Concealed front frame fixings and White RAL 9016 full gloss frames as standard
- Sealed drop rod suspension option, bungs can be removed if required, standard fixings are as illustrated opposite
- Rigid body in 0.8mm gauge steel finished White to RAL 9010
- Modular version designed to engage below 600 x 600mm modular exposed T grids, non modular version fits ceilings up to 90mm thick as standard
- Extruded aluminium twin frame construction with angled integration to eliminate any vertical gap finished bright White to RAL 9016 full gloss to make any dirt highly visible. Outer frame sealed to the ceiling by a closed cell gasket. Mastic sealant can also be used between outer frame and ceiling without impairing access to lamps
- Optional recessing panel available to retain integrity on spring T ceilings
- Fused terminal block

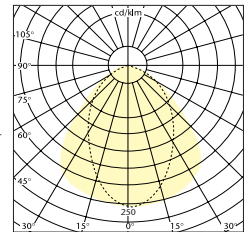


PHOTOMETRY

HDU
DUAL OPTIC -
LOUVRE & DIFFUSER
4 x 55W Lamps



- LOR = 53.2%
- SHR MAX = 1.57



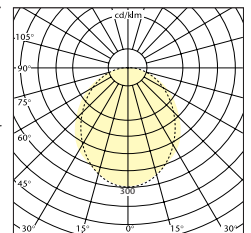
UTILISATION FACTORS UF(F) SHR NOM=1.50

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	0.40	0.44	0.46	0.49	0.52	0.53	0.55	0.56
0.50	0.30	0.20	0.32	0.36	0.40	0.42	0.45	0.48	0.49	0.51	0.53
0.00	0.00	0.00	0.29	0.32	0.35	0.38	0.41	0.43	0.44	0.46	0.48

HDU
DIFFUSER SIDE ONLY
2 x 55W Lamps



- LOR = 71.8%
- SHR MAX = 1.52



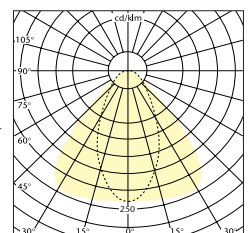
UTILISATION FACTORS UF(F) SHR NOM=1.50

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	0.51	0.56	0.60	0.65	0.68	0.70	0.73	0.75
0.50	0.30	0.20	0.39	0.45	0.50	0.54	0.59	0.62	0.65	0.68	0.70
0.00	0.00	0.00	0.34	0.39	0.44	0.48	0.53	0.56	0.58	0.61	0.63

HDU
LOUVRE SIDE ONLY
2 x 55W Lamps



- LOR = 33.1%
- SHR MAX = 1.61

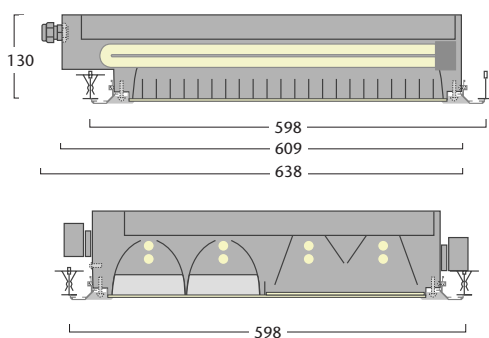


UTILISATION FACTORS UF(F) SHR NOM=1.50

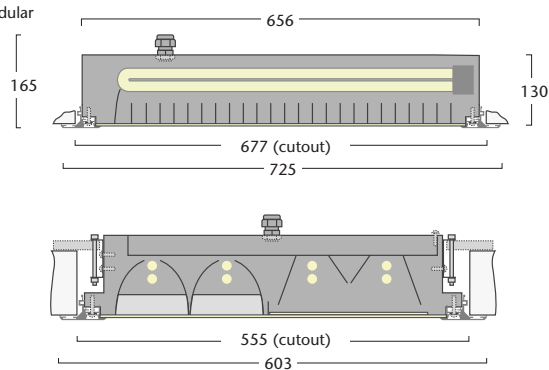
Room Reflectance	Room Index										
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.27	0.29	0.31	0.32	0.33	0.34	0.35	0.36	0.36
0.50	0.30	0.20	0.25	0.27	0.29	0.30	0.31	0.32	0.33	0.34	0.34
0.00	0.00	0.00	0.24	0.25	0.27	0.28	0.29	0.30	0.30	0.31	0.31

DIMENSIONS

Modular



Non-modular



Note: The dimensions shown on depth are for the complete fitting – for void clearance above the ceiling line deduct 7mm



Cam jacking bracket modular



Solid aluminium jacking bracket non-modular

LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	LAMP LIFE
1 x 55W TC-L	4800	10,000

ORDER CODES – HDU LUMINAIRE

IP65/S4 HIGH DEPENDENCY UNIT LUMINAIRE

SUPPLIED LESS LAMPS		HIGH FREQUENCY/ ANALOGUE DIMMING
4 x 55W TC-L	MODULAR	HDUM455R
4 x 55W TC-L	NON-MODULAR	HDUN455R

RECESSING PANEL to retain integrity in spring T ceilings – order separately as **RP600X600**

To specify state:

IP65/S4, 4 x 55W TC-L multi-function luminaire meeting CIBSE recommendations for high dependency units. 2 x 55W lamps controlled by high frequency dimming gear with semi-specular cross blade louvre delivering a sharp cut off for maximum patient comfort and 2 x 55W lamps controlled by high frequency gear with reflector and twin sheet diffuser. Diffuser with smooth face to room in twin aluminium frame with gapless integration and cap fixings for best infection control – as Whitecroft Lighting HDU