

HDU

MOTIVATION

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.

APPLICATION

- Purpose designed with no compromise to meet the exacting requirements of high dependency 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

- Lamps
 - 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 – used alone day and night time (dimmed)
- 2 x 55W lamps controlled by high frequency gear with reflector and twin sheet 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) 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 IP54 body in 0.8mm gauge steel finished white to RAL9010 20% gloss
- Modular version designed to engage below 600 x 600mm modular exposed T grids, non modular version fits ceilings upto 90mm thick as standard
- Extruded aluminium twin frame construction with angled integration to eliminate any vertical gap finished bright white to RAL9016 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
- Fused terminal block
- 3 hour fully remote emergency



HDU455R

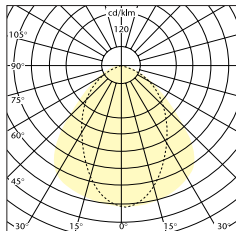


Cam jacking bracket modular



Solid aluminium jacking bracket non modular

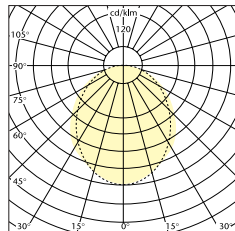
HDU
Split Optic -
Louvre & Diffuser
4 x 55W Lamp



- LOR = 53.2
- SHR MAX = 1.57

UTILISATION FACTORS UF(F)		SHR NOM=1.50										
Room Reflectance	Room Index	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00		
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	

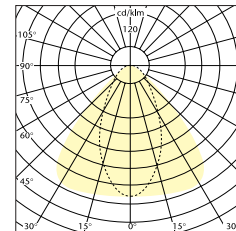
HDU
Diffuser Side Only
2 x 55W Lamp



- LOR = 71.8
- SHR MAX = 1.52

UTILISATION FACTORS UF(F)		SHR NOM=1.50										
Room Reflectance	Room Index	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00		
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 Lamp

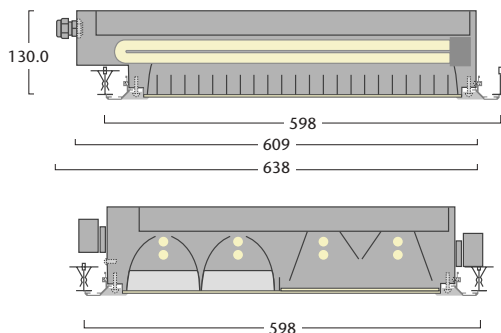


- LOR = 33.1
- SHR MAX = 1.61

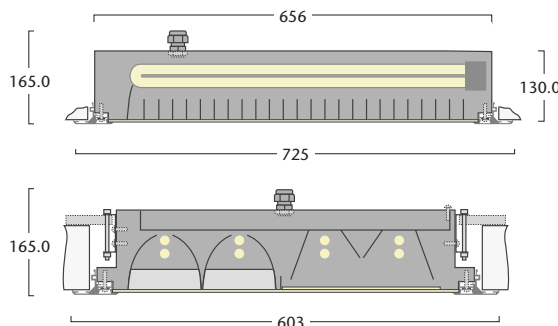
UTILISATION FACTORS UF(F)		SHR NOM=1.50										
Room Reflectance	Room Index	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00		
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.27	0.29	0.31	0.32	0.33	0.34	0.35	0.36	0.36	
0.50	0.30	0.20	0.25	0.27	0.29	0.30	0.31	0.32	0.33	0.34	0.34	
0.00	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.

LAMP PERFORMANCE MATRIX

WATTAGE	IL@25°C	TOTAL CIRCUIT WATTS	LUMENS PER CIRCUIT WATT	LAMP LIFE TO 50% FAILURE
4 x 55W TC-L	19200	232	83	20000

Note Recommended scheduled lamp replacement at 80% of rated life = 16000 hours

HDU Luminaire

ORDER CODES

IP65/S4 HIGH DEPENDENCY UNIT LUMINAIRE

HIGH FREQUENCY/REGULATED DIMMING		LAMPS	HIGH FREQUENCY/DIGITAL DIMMING	
STANDARD	EMERGENCY		STANDARD	EMERGENCY
MODULAR				
HDUM455R	HDUM455REMFR	4 x 55W TC-L	HDUM455D	HDUM455DEMFR
NON-MODULAR				
HDUN455R	HDUN455REMFR	4 x 55W TC-L	HDUN455D	HDUN455DEMFR

RECESSING PANEL to retain integrity on spring T ceilings – Order separately as **RP600x600**

DEEP CEILING BRACKET for non modular ceiling depths > 90mm but < 153mm order separately as **150CBKT600** (pack of 4)

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 for best visual comfort. Diffuser with smooth face to room in twin aluminium frame with gapless integration and cap fixings for best infection control as Whitecroft Lighting HDU luminaire.



Lighting for Life

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