





florence elite 212



florence 214



medilight 216



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nightingale NX 218



HDU 220



surgeon 65 222



esprit MRI 223



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mirage MX24 AL 229



horizon AL 230

healthcare

healthcare lighting

No other physical situation creates such unique lighting demands as a hospital building. Patient comfort and well-being require primary consideration, alongside provision of a good working environment for staff, while energy conservation and lifecycle costs are also of major importance.

patient well-being

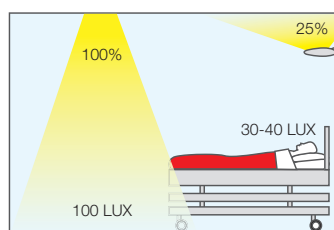
Research confirms the direct link between light quality and patient recovery rates. Recent studies by Professor Bryan Lawson and Doctor Michael Phiri of the University of Sheffield and NHS Estates show that an improved ward environment can result in a reduction in non-operative patient recovery times of between 14–21%.

infection control

At Whitecroft Lighting we recognise the importance of infection control in all areas of the hospital. All of our luminaires are designed to afford easy cleaning and to minimise areas which can harbour germs. We draw on over 30 years of Clean Room experience to ensure that luminaires used in high risk areas actively reduce the risk of contamination from the ceiling void.

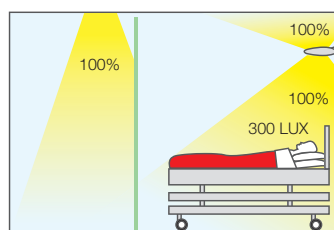
lifecycle costing

For a typical hospital building, lifecycle costing indicates that for every £1 spent on construction, £5 is required for facilities management and no less than £200 is associated with the people who use it. Lighting is a significant factor in this equation, and choosing the right system and equipment can make a dramatic difference to the effectiveness of the patients and staff within a hospital.



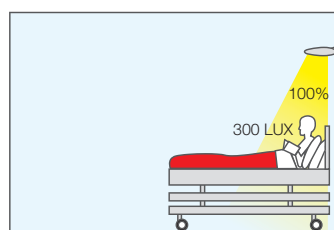
General Lighting

Centre ward illuminance should be sufficient to enable safe movement around ward area. Patient ambient should be a relaxing lower level of illumination.



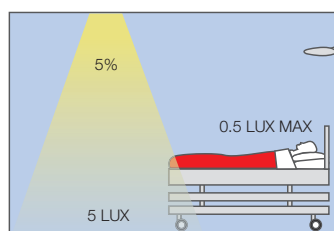
General/Nursing Care

Medical practices carried out at bed space with curtains open or closed. A 25% tolerance is acceptable when curtains are closed.



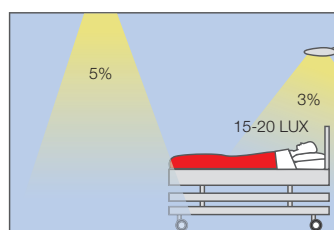
Reading Light

Directly on the pillow in a 1.0 x 1.0m area. May be used as an additional source for nursing tasks. If adjustable, avoidance of glare to others is essential.



Nightlight/Emergency

Downlight only, dimmed to minimum. Illuminance sufficient to allow staff and patients to move around. Should not disturb sleeping patients. Emergency lighting can also be incorporated into the central downlights.



Watchlight

Downlight and reading light dimmed to allow continuous observation at night.

ward lighting

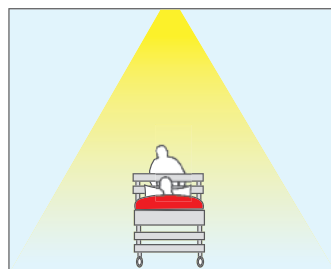
Our individually controlled bedhead units, combined with recessed downlighters, provide the perfect solution to all these different requirements and reduce the need for task lighting. Supplementary lights may be required for detailed examination.



In every area of the hospital unique solutions are required to deliver the best lighting for patients and staff whilst minimising installed costs and ensuring energy efficiency.

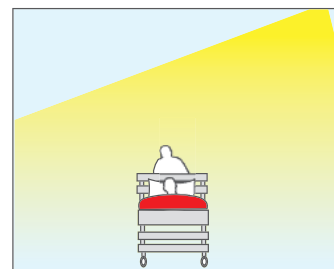
corridor lighting

Corridors are as important as any other area of a hospital, so the same considerations of patient comfort, staff effectiveness and logistical efficiency apply. Lighting design needs to address all these issues, while the practical demands of cleaning and maintenance also come into play.



Centrally mounted

This can cause overhead glare and discomfort as patients are moved along hospital streets and corridors



Offset to the side

Overhead glare is significantly reduced with a recessed luminaire fitted with an asymmetric specular reflector



florence elite

low profile IP40 direct/indirect bedhead luminaire

> weblink > **FLOE**

Optics

- Lamp options:
 - 1 x 39W T5 uplight (ward lighting)
 - 1 x 21W T5 downlight (reading/nursing care)
 - or
 - 10W LED downlight (reading/nursing care)
- Both the ward and reading lamps are independently dimmable by "push control" and function so the following lighting levels can be selected to meet LG2:2008:
 - Patient rest 30-50 Lux
 - Watch light 15-20 Lux
 - Reading 300 Lux
 - General nursing care 300 Lux

Body

- IP40
- Extruded aluminium spine & 'push on' moulded end caps
- One piece membrane diffuser for maximum infection control
- Wall mounted, recommended mounting height 2m for typical 2.6m-3m ceiling heights
- 1st fix wall bracket, pre-wired to GST 18/4 flying leads
- No visible screws and easy/cleaning access to the top of the luminaire



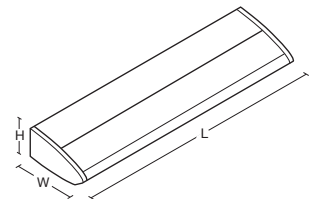
ORDER CODES

Florence Elite	Standard
T5 1 x 39W up/1 x 21W down	FEL3921
T5 1 x 39W up/10W LED down	FEL3910LED

LAMP PERFORMANCE

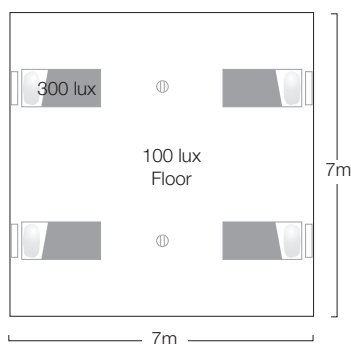
Wattage	IL@25°C	Lamp Life
1 x 21W T5	1900	24,000hrs
1 x 39W T5	3100	24,000hrs

DIMENSIONS

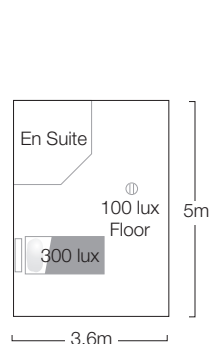


L	W	H	KG
895	213	95	5.0

TYPICAL 4 BED WARD



TYPICAL 1 BED WARD



TO SPECIFY

Direct/indirect wall mounted hospital bed head luminaire using T5 lamps or a combination of T5 and LEDs, with separately switched dimmable ward lighting and reading/nursing care light. Easy to clean, IP40 rated extruded aluminium body with one piece infection control diffuser membrane – as Whitecroft Lighting FLORENCE ELITE

Ⓜ Nightingale recommended for circulation area lighting



florence

direct/indirect bedhead luminaire

> weblink > **FLOR**

Optics

- Lamp options (1200mm body):
 - 1 x 54W T5 uplighter (ward lighting)
 - 1 x 54W T5 downlighter (reading/nursing care)
- Lamp options (600mm body):
 - 1 x 55W TC-L uplighter (ward lighting)
 - 1 x 55W TC-L downlighter (reading/nursing care light)
- Removable diffusers for both ward and reading/nursing care lights run the full length of the body to optimise light distribution
- Both the ward and reading lamps are independently dimmable by “push control” and function so the following lighting levels can be selected to meet LG2:2008:
 - Patient rest 30-50 Lux
 - Watch light 15-20 Lux
 - Reading 300 Lux
 - General nursing care 300 Lux

Body

- Extruded aluminium body and full length wall bracket with closed ends finished white
- Wall mounted, recommended mounting height 2m for typical 2.6m-3m ceiling heights
- 1st fix wall bracket, pre-wired to GST 18/4 flying leads



Mounting bracket

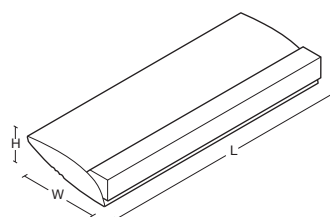


End section

ORDER CODES

Florence		Standard
T5 2 x 54W	(one for the ward and one for the reading light)	FLRX5454
TC-L 2 x 55W	(one for the ward and one for the reading light)	FLRX5555

DIMENSIONS

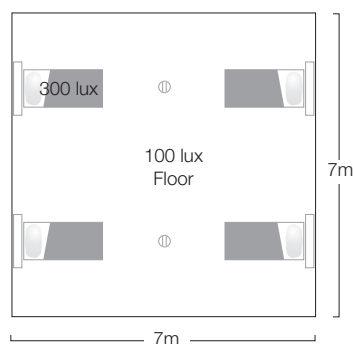


Version	L	W	H	KG
2 x 55W TC-L	580	322	100	7.0
2 x 54W T5	1188	322	100	10.0

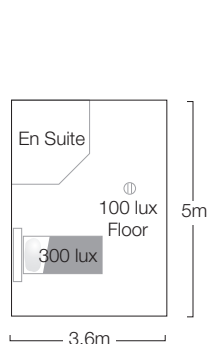
LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 54W T5	4450	24,000hrs
1 x 55W TC-L	4800	20,000hrs

TYPICAL 4 BED WARD



TYPICAL 1 BED WARD



Ⓜ Nightingale recommended for circulation area lighting

TO SPECIFY

Direct/Indirect wall mounted hospital bed-head luminaire with 2 x 54W T5 or 2 x 55W TC-L separately switched lamps one lamp providing ward lighting the other reading/nursing care light. Extruded aluminium body and wall bracket with profiled end caps and full length polycarbonate diffusers. Lamps to be independently dimmed by ‘push control’ – as Whitecroft Lighting FLORENCE

Optics

- Lamp options:
 - 2 x 54W T5 uplight
 - 1 x 54W T5 downlight
- Purpose designed reeded polycarbonate diffusers
- Both the ward and reading lamps are independently dimmable by “push control” and function so the following lighting levels can be selected to meet LG2:2008:
 - Patient rest 30-50 Lux
 - Watch light 10-20 Lux
 - Reading 300 Lux
 - General nursing care 300 Lux

Body

- Purpose designed continuous profiled aluminium extrusion finished white (minimum length of 2m)
- Recommended mounting height 1.4 to centre of gases as per H.T.M. requirements
- Easy to clean continuous curved profile helping infection control, thus reducing hospital acquired infections
- Easy to reach top surface to facilitate daily cleaning
- Equipment that can be integrated includes:
 - 13 amp twin socket outlets
 - Data outlets
 - Telephone outlets
 - Nurse call equipment
 - Medical gas outlets

Note: Medical gas pipework not included



ORDER CODES

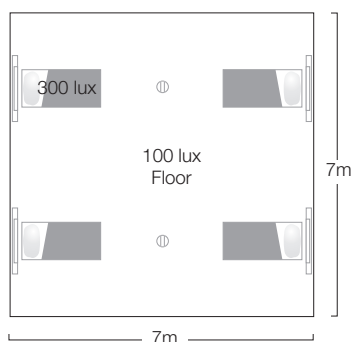
Medilight (Typical Configuration)	Standard
	MED4R
Aluminium base carcass: 2m long	
T5 2 x 54W	1 x circulation light
T5 1 x 54W	1 x reading/nursing care light
	3 x twin 13 amp switched socket panel
	1 x gas outlet panel
	1 x 4 way RJ45 data ports
	1 x nurse call panel (Mediplan Series 25 recommended)
	1 x reading light dimmer switch panel
	1 x circulation light dimmer switch
	Blanking panels to fill redundant space

Note: Please contact our sales department for project specific requirements

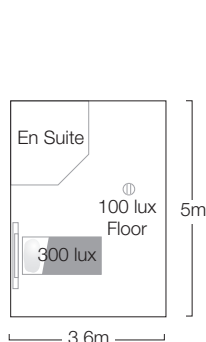
LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 54W T5	4450	24,000hrs

TYPICAL 4 BED WARD

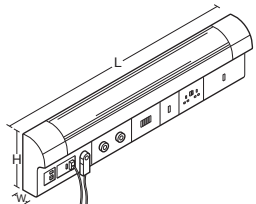


TYPICAL 1 BED WARD



Ⓜ Nightingale recommended for circulation area lighting

DIMENSIONS



L	W	H	KG
2000	103	366	*

* For weight, refer to Whitecroft Technical Department

TO SPECIFY

Fully integrated wall mounted hospital extruded aluminium trunking system combining lighting and medical services. Incorporating 2 x 54W and 1 x 54W T5 separately switched lamps, two lamps providing ward lighting, one providing nursing care and reading light. Each set of lamps independently dimmed by ‘push control’ – as Whitecroft Lighting MEDILIGHT

vigilant

direct/indirect bedhead luminaire

> weblink > **VIG**

Optics

- Lamp options:
 - 2 x 54W T5 (ward lighting)
 - 1 x 54W T5 (reading/nursing care)
- Removable profiled polycarbonate diffusers
- Both the ward and reading lamps are independently dimmable by “push control” and function so the following lighting levels can be selected to meet LG2:2008:
 - Patient rest 30-50 Lux
 - Watch light 10-20 Lux
 - Reading 300 Lux
 - General nursing care 300 Lux

Body

- Extruded aluminium body finished white
- Aluminium rear panel for direct to wall mounting
- Separate dimming circuits for circulation and reading lamps
- Optimum mounting height 2 metres



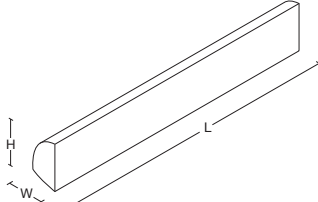
ORDER CODES

Vigilant	Standard
T5 3 x 54W	VIGX254154

LAMP PERFORMANCE

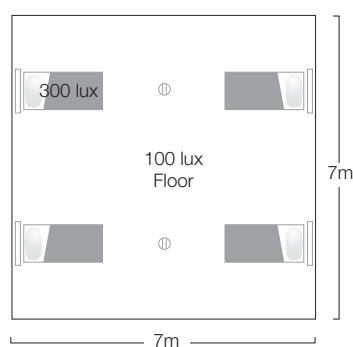
Wattage	IL@25°C	Lamp Life
1 x 54W T5	4450	24,000hrs

DIMENSIONS

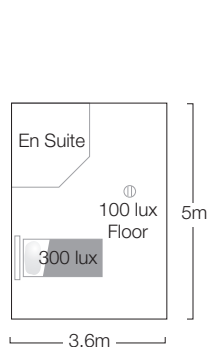


L	W	H	KG
1308	154	202	12.0

TYPICAL 4 BED WARD



TYPICAL 1 BED WARD



Ⓢ Nightingale recommended for circulation area lighting

TO SPECIFY

Direct/Indirect wall mounted bedhead luminaire with 2 x 54W circulation lighting and 1 x 54W reading/nursing care light. Extruded aluminium body with profiled endcaps. Polycarbonate diffusers. Lamps can be independently dimmed by ‘push control’ – as Whitecroft Lighting VIGILANT



nightingale NX

centre ward combined circulation/lighting luminaire

> weblink > **NX24**

Optics

- Lamp options:
 - 2 x 26W TC-D
- Low glare louvre as standard giving full glare control at the bedhead & good uniformity of illumination in circulation zone
- Provides 100 Lux daytime circulation lighting
- Night setting provides max 0.5 Lux at bedhead positions greater than 2m from luminaire with 2.6m mounting height
- Lamps are switched for night-lighting using a standard light switch (not supplied) typically at the ward entrance. This can be labelled 'Night' and 'Day'. The 'Day' position will give the 100% output required for general ward circulation lighting and the 'Night' position will give the 5 Lux required at night time. A separate mains switch is required to turn the light on and off

Body

- Analogue HF dimming gear integral to body
- Die cast aluminium bezel finished white



ORDER CODES

Nightingale NX	Standard	3 hr Emergency
TC-D 2 x 26W	NX24R226	NX24R226EM

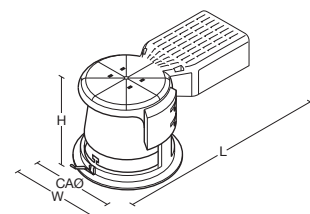
Options

EASYTEST	Add suffix /ET to order code	i.e. NX24R226/ ET
COMET	Add suffix /CT to order code	i.e. NX24R226/ CT

LAMP PERFORMANCE

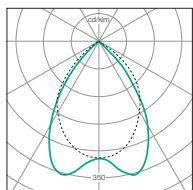
Wattage	IL@25°C	Lamp Life
1 x 26W TC-D	1800	12,000hrs

DIMENSIONS



L	W	H	CAØ	KG	KG
420	240	171	225	2.0	3.0

PHOTOMETRIC PERFORMANCE



- 2 x 26W TC-D
- LOR = 46.1%
 - SHR MAX = 1.43

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.37	0.47	0.50

TO SPECIFY

Die cast aluminium bodied compact fluorescent centre ward downlighter with louvre for glare control at bedhead. HF dimming gear with facility for local step dimming for night & day settings – as Whitecroft Lighting NIGHTINGALE



HDU

IP65/54 high dependency unit luminaire

Optics

- Lamp options:
 - 4 x 55W TC-L
- 2 x 55W lamps controlled by high frequency dimming gear with semi-specular cross blade louvre delivering a controlled cut off for maximum patient comfort
- 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 (1000 Lux)
- 3 pre-set light levels on louvre side, dimmed by means of a 3 position switch (not supplied):
 - Low for watchlight (10-20 Lux)
 - Medium for patient rest (30-50 Lux)
 - High for general clinical care (400 Lux)
- The diffuser is smooth face to room for ease of cleaning

Body

- Dual IP rated to avoid any ingress of contamination from the void – IP65 frame on, IP54 during lamp change – BSI IP65/54 certified
- Sealed drop rod suspension option, bungs can be removed if required, standard fixings are as illustrated opposite
- Rigid body in steel finished white
- Modular version designed to engage below 600 x 600mm modular exposed T25 & spring T grids (refer to the ceiling compatibility matrix on page 310), non modular version fits prepared aperture ceilings from 35-90mm as standard
- Extruded aluminium twin frame construction with angled integration to eliminate any vertical gap finished white. 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
- No visible screws



HDU

> weblink > HDU

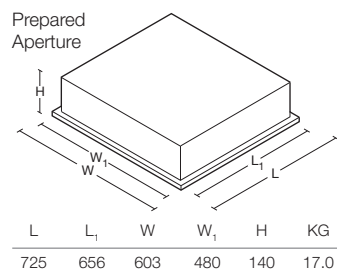
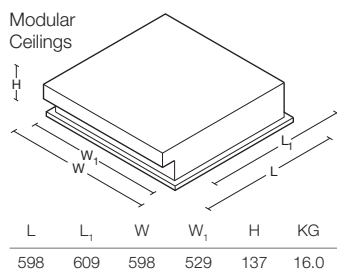
ORDER CODES

HDU (Modular Ceilings)	Standard
TC-L 4 x 55W	HDUM455R
HDU (Prepared Aperture)	Standard
TC-L 4 x 55W	HDUN455R
Options	
RECESSING PANEL to retain integrity on spring T ceilings	RP600x600

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 55W TC-L	4800	12,000hrs

DIMENSIONS



HDUM CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T15/T25 Pull up

Spring T Grids (Recessing panel required)

SAS – 150/120
Armstrong – Orcal 1800/3000
Burgess – Clip in/Abar
Dampa – Clip in

HDUN CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Plasterboard

Prepared aperture

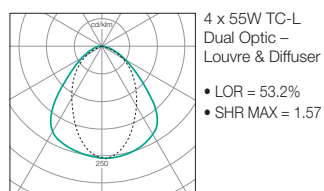


Cam jacking bracket modular ceilings



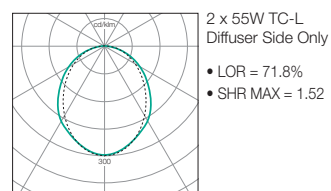
Solid aluminium jacking bracket prepared aperture version

PHOTOMETRIC PERFORMANCE



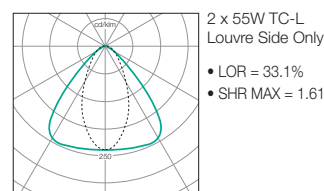
Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.40	0.53	0.56



Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.51	0.70	0.75



Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.29	0.35	0.36

TO SPECIFY

IP65/54, 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

surgeon 65

IP65 recessed hospital bed luminaire

> weblink > **SURG**

Optics

- Lamp options:
2 x 55W TC-L
- Semi-specular cross blade louvre with sharp cut-off for controlled patient comfort
- Clear Tp(a) rated sheet below louvre for ease of cleaning
- 3 pre-set light levels, dimmed by means of a 3 position switch (not supplied):
 - Low for watchlight (10-20 Lux)
 - Medium for patient rest (30-50 Lux)
 - High for general clinical care (400 Lux)

Body

- Rigid sheet steel body with white extruded aluminium front frames
- Dual IP rated to avoid any ingress of contamination from the void – IP65 frame on, IP54 during lamp change
- Modular version designed to engage below 600 x 600mm modular exposed T25 & spring T grids (refer to the ceiling compatibility matrix on page 310) using adjustable cam brackets
- Non modular version fits prepared aperture ceilings from 35-90mm thick as standard. Fixed using adjustable jacking brackets
- Frame fixing screws countersunk and capped to eliminate bacteria traps



Cam jacking bracket modular ceilings



Solid aluminium jacking bracket prepared aperture version

ORDER CODES

Surgeon 65 (Modular Ceilings)

TC-L 2 x 55W **SURM65R255**

Surgeon 65 (Prepared Aperture)

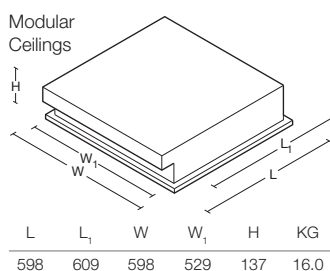
TC-L 2 x 55W **SURNM65R255**

Options

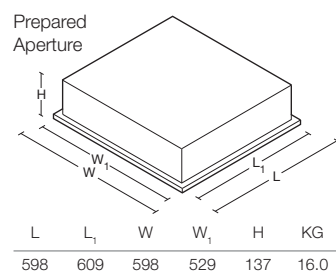
RECESSING PANEL To retain integrity on spring T ceilings **RP600x600**

DIMENSIONS

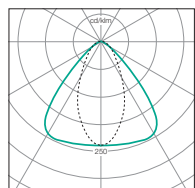
Modular Ceilings



Prepared Aperture



PHOTOMETRIC PERFORMANCE



2 x 55W TC-L
Louvre Side Only

- LOR = 33.1%
- SHR MAX = 1.61

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.29	0.35	0.36

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 55W TC-L	4800	12,000hrs

TO SPECIFY

IP65/54, 2 x 55W TC-L over-bed luminaire in twin aluminium frames with gapless integration and cap fixings for ease of cleaning. Controlled by high frequency dimming gear with semi-specular cross blade louvre delivering a sharp cut off for maximum patient comfort and clear Tp(a) diffuser for infection control – as Whitecroft Lighting SURGEON 65

esprit MRI

downlighter for MRI scanning rooms

> weblink > **EMRI**

Optics

- Anodised aluminium reflector
- 75W Osram Halolux E27 base tungsten halogen lamp included

Body

- One piece assembly with precision moulded bezel
- Only non-ferrous materials are used in the construction
- User friendly rapid fix push down straps with 3 point location

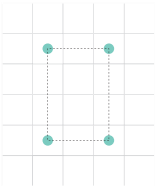


ORDER CODES

Esprit MRI	Standard
TH 1 x 75W	ESTH75

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
1 x 75W TH	360 lux	1.8m x 1.2m

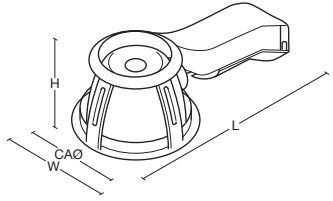


Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 2.7m
Working Plane: 0.8m

LAMP PERFORMANCE

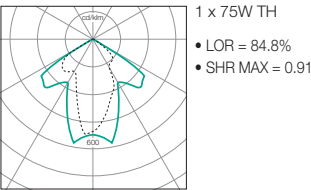
Wattage	IL@25°C	Lamp Life
1 x 75W TH	1100	2,000hrs

DIMENSIONS



L	W	H	CAØ	KG
363	218	114	200	0.9

PHOTOMETRIC PERFORMANCE



Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.59	0.84	0.89

TO SPECIFY

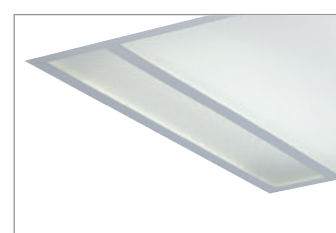
One piece compact recessed downlighter for MRI scanning rooms, fabricated from non-ferrous materials and containing no electronic gear – as Whitecroft Lighting ESPRIT MRI

Optics

- Lamp options:
 - 3 x 24W T5
- Micro prism side controllers or living louvres covered by clear polycarbonate
- Satine Blend central diffuser for lamp diffusion
- Framed polycarbonate Tp(a) rated sheet for ease of cleaning
- Picture options for central diffuser to add feature

Body

- Sheet steel body and frame with a choice of comfort and brightness controlled optics. Combines Duo office lighting excellence with infection control and clean area expertise
- IP40 rated



Micro prism diffuser with opal central diffuser



Living louvre with Sky image

ORDER CODES

Micro Prism Optic	HF Gear	3 hr Emergency
T5 3 x 24W	DCNMH324	DCNMH324EM
Living Louvre Optic	HF Gear	3 hr Emergency
T5 3 x 24W	DCNVH324	DCNVH324EM

Options

DALI DIMMING	Replace H with Y in order code	i.e. DCN MY 324
DSI DIMMING	Replace H with D in order code	i.e. DCN MD 324
SWITCH DIMMING	Replace H with X in order code	i.e. DCN MX 324
EASYTEST	Add suffix /ET to order code	i.e. DCNMH324/ ET
COMET	Add suffix /CT to order code	i.e. DCNMH324/ CT

Image Options

SKY	Add suffix /PA to order code	i.e. DCNMH324/ PA
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Alternative images: Replace PA with PB, FA, FB, FC or FD depending on picture required

Note: Inclusion of an image can reduce light output by up to 25%

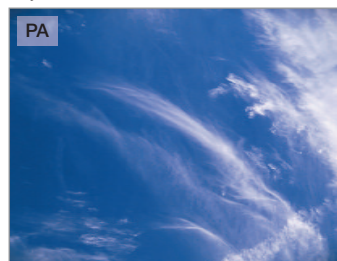
duo[®] consult

IP40 dedicated consulting room luminaire

> weblink > **DUOCT**

PRINTED IMAGES

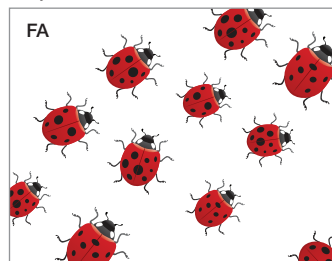
Sky



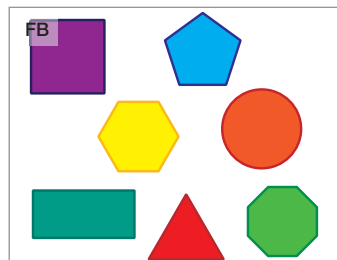
Autumn



Ladybirds



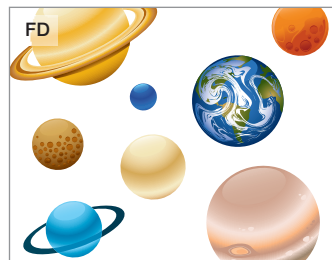
Shapes



Butterflies



Planets



CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Exposed T Grids

T15/T25 Pull up

Spring T Grids

SAS – 150/120

Armstrong – Orcal 1800/3000

Burgess – Clip in/Abar

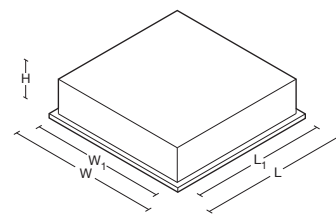
Plasterboard

Prepared aperture

LAMP PERFORMANCE

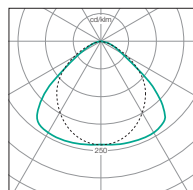
Wattage	IL@25°C	Lamp Life
1 x 24W T5	1750	24,000hrs

DIMENSIONS



L	W	H	L ₁	W ₁	KG	KG
598	598	100	536	536	5.9	6.9

PHOTOMETRIC PERFORMANCE



3 x 24W T5
Living Louvre
• LOR = 59.3%
• SHR MAX = 1.85

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.47	0.60	0.64

TO SPECIFY

Consulting room T5 luminaire with IP40 easy clean front diffuser and living louvre, micro prism controller or picture options to add feature – as Whitecroft Lighting DUO CONSULT





DTFN elite T5 through access

IP65/54 recessed luminaire with sealed twin frame construction

Optics

- Lamp options:
 - 4 x 28W T5
 - 3 or 4 x 54W T5
- Louvre above 4mm toughened glass or clear 3mm fireguard material
- Prismatic acrylic above 4mm toughened glass
- Single 3mm sheet prismatic fireguard material

Body

- Front access with the fixings inside the sealed lid to provide void access
- Hinged lid
- Dual IP rated – to a BSI tested and certified construction as protecting the room to IP65 from void contamination with the front frame and IP54 with the frame removed
- Cut and prepared aperture ceilings and sandwich panels with capped aperture reinforcements up to a depth of 90mm with standard brackets as supplied on the luminaire or 153mm with optional special deep ceiling bracket (order separately)
- Extruded aluminium fixed outer frame (gasketed to ceiling) and removable inner frame integrate in line but at an angle to eliminate a vertical gap. Additional mastic sealant between outer frame and ceiling does not impede lamp access
- Diffuser securely clamped but easily removable from frame for replacement
- Solid aluminium side arm jacking brackets adjusted from within the sealed body
- Concealed front frame fixings and white full gloss frames as standard on all options

Note: a glass front face resists all cleaning chemicals and is best for a sterile environment if advice is needed contact the Whitecroft technical desk

Note: for a comprehensive range of standard access products see our clean area section page 232



DTFN elite T5 through access

> weblink > DTTA

ORDER CODES

Cat 2 louvre above 4mm toughened glass HF Gear 3 hr Emergency

T5 4 x 28W	DTFNWGH428TA	DTFNWGH428TAEMIN
T5 4 x 54W	DTFNWGH454TA	DTFNWGH454TAEMIN

Cat 2 louvre above 3mm clear TP(a) rated sheet HF Gear 3 hr Emergency

T5 4 x 28W	DTFNWFH428TA	DTFNWFH428TAEMIN
T5 4 x 54W	DTFNWFH454TA	DTFNWFH454TAEMIN

Prismatic acrylic above 4mm toughened glass HF Gear 3 hr Emergency

T5 4 x 28W	DTFNAGH428TA	DTFNAGH428TAEMIN
T5 3 x 54W	DTFNAGH354TA	DTFNAGH354TAEMIN
T5 4 x 54W	DTFNAGH454TA	DTFNAGH454TAEMIN

Prismatic TP(a) single sheet HF Gear 3 hr Emergency

T5 4 x 28W	DTFNKH428TA	DTFNKH428TAEMIN
T5 3 x 54W	DTFNKH354TA	DTFNKH354TAEMIN
T5 4 x 54W	DTFNKH454TA	DTFNKH454TAEMIN

Options

DALI DIMMING	Replace H with Y in order code	i.e. DTFNWDY428TA
DSI DIMMING	Replace H with D in order code	i.e. DTFNWD428TA
SWITCH DIMMING	Replace H with X in order code	i.e. DTFNWDX428TA
EASYTEST	Add suffix /ET to order code	i.e. DTFNWDH428TA/ET
COMET	Add suffix /CT to order code	i.e. DTFNWDH428TA/CT

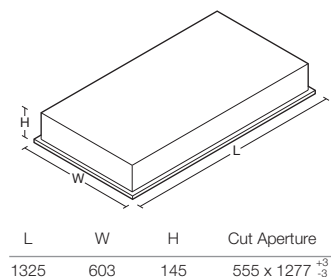
DEEP CEILING BRACKET for ceilings up to 153mm order separately as **150CBKT1200** for 28 and 54W lamps

Note: The standard DTFN Elite range is detailed in the clean area section of the catalogue see page 242

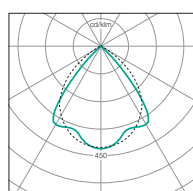
LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 28W T5	2600	24,000hrs
1 x 54W T5	4450	24,000hrs

DIMENSIONS



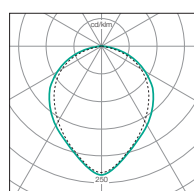
PHOTOMETRIC PERFORMANCE



4 x 28W T5
Louvre/clear
• LOR = 61.5%
• SHR MAX = 1.55

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.49	0.63	0.66



4 x 28W T5
Prismatic
• LOR = 64.7%
• SHR MAX = 1.42

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.43	0.62	0.67

CEILING INTEGRATION

Refer to common ceiling compatibility matrix – See page 310

Plasterboard

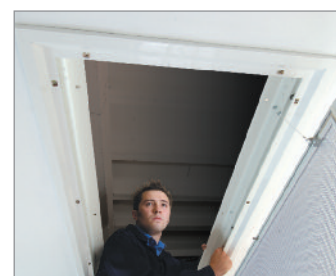
Prepared aperture



DTFNWGH428TA



Solid aluminium jacking bracket



Easy access to ceiling void

WEIGHT

	Louvre/ toughened glass	Louvre/TP(a) rated sheet	Acrylic/ toughened glass	Prismatic TP(a)
T5 4 x 28W	28.0 KG	22.0 KG	29.0 KG	20.0 KG
T5 3 x 54W	–	–	29.0 KG	20.0 KG
T5 4 x 54W	28.0 KG	22.0 KG	29.0 KG	20.0 KG

Note: Emergency luminaires are 1 KG heavier than the standard shown above

PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
4 x 54W T5	1000 lux	3.0m x 3.0m

Maintenance: 0.8	Reflectance: 70/50/20	Ceiling Height: 2.7m	Working Plane: 0.8m
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TO SPECIFY

Recessed non-modular T5 clean room luminaire, for cut/prepared aperture ceilings to a BSI tested and certified construction, as IP65 frame on IP54 frame off with twin in line extruded aluminium frames, with angled integration and concealed front frame fixings. The luminaire is to provide access to void services. Suspension via solid aluminium jacking brackets adjusted from below – as Whitecroft Lighting DTFN ELITE T5 Through Access

mirage MX24 anti-ligature

anti-ligature recessed downlighter

> weblink > **MXAL**

Optics

- Lamp options:
 - 2 x 18W TC-D
 - 2 x 26W TC-D
- Plain silver reflector with high impact 5mm thick polycarbonate cover

Body

- Die cast body & inner bezel
- Body screw fixed to ceiling before front bezel is located
- Front bezel secured by retained tamper proof screws
- Can be used with technical louvre & dimming control gear for night lighting applications
- IP44 from room side



Technical louvre

ORDER CODES

Mirage MX24 Anti-Ligature	HF Gear	3 hr Emergency
TC-D 2 x 18W	MX24ALH218P	MX24ALH218PEM
TC-D 2 x 26W	MX24ALH226P	MX24ALH226PEM

Options

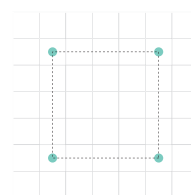
DALI DIMMING	Replace H with Y in order code	i.e. MX24AL Y 218P
DSI DIMMING	Replace H with D in order code	i.e. MX24AL D 218P
SWITCH DIMMING	Replace H with X in order code	i.e. MX24AL X 218P
EASYTEST	Add suffix /ET to order code	i.e. MX24ALH218P/ ET
COMET	Add suffix /CT to order code	i.e. MX24ALH218P/ CT
Special tool required for access and fixing		
HAL-KEY		
TECH LVR	Add suffix T to order code	i.e. MX24ALH218P T
	For emergency	i.e. MX24ALH218P TEM

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 18W TC-D	1200	12,000hrs
1 x 26W TC-D	1800	12,000hrs

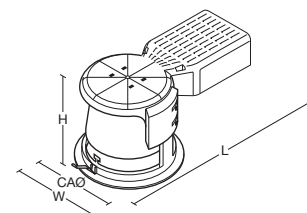
PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
2 x 26W TC-D	220 lux	2.4m x 2.4m



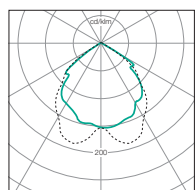
Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

DIMENSIONS



L	W	H	CAØ	KG	KG
416	240	171	225	3.0	3.5

PHOTOMETRIC PERFORMANCE



- 2 x 26W TC-D
- LOR = 38.8%
- SHR MAX = 1.61

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.32	0.40	0.42

TO SPECIFY

Pressed steel and extruded aluminium bodied TC-D compact fluorescent anti-ligature down-lighter with high frequency gear integral to body and plain silver reflector with optional technical louvre. High impact 5mm thick polycarbonate cover retained by mounting ring and spun bezel in 0.9mm zintec steel finished white and secured by 3 – M5 x 20 tamper proof screws – as Whitecroft Lighting MIRAGE MX24 AL



horizon anti-ligature

anti-ligature surface mounted luminaire

> weblink > **HAL**

Optics

- Lamp options:
 - 1 x 28 or 38W 2D
 - 1 x 55W 2D
- Night light via 7W TC-S

Body

- Heavy gauge steel spinning finished white
- Flush mounting on ceiling or wall
- 3 or 4 mounting points with 3 tamper proof front face fixings
- Flame retardant opal polycarbonate diffuser



ORDER CODES

Horizon Anti-Ligature	HF Gear	3 hr Emergency
2D 1 x 28W	HALH128	HALH128EM
2D 1 x 38W	HALH138	HALH138EM
2D 1 x 55W	HALH155	HALH155EM

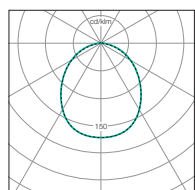
Options

EASYTEST	Add suffix /ET to order code	i.e. HALH128/ ET
COMET	Add suffix /CT to order code	i.e. HALH128/ CT
7W NIGHT LIGHT	Add suffix NL to order code	i.e. HALH128 NL
	For emergency	i.e. HALH128 NLEM
Special tool required for access and fixing		HAL-KEY

LAMP PERFORMANCE

Wattage	IL@25°C	Lamp Life
1 x 28W 2D	2050	15,000hrs
1 x 38W 2D	2850	15,000hrs
1 x 55W 2D	3900	15,000hrs

PHOTOMETRIC PERFORMANCE



- 1 x 55W 2D
- LOR = 50%
 - SHR MAX = 1.70

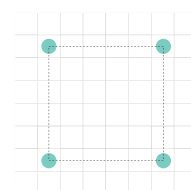
Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.33	0.47	0.51



PERFORMANCE GUIDE

Lamps	Illuminance	Spacing
1 x 55W 2D	200 lux	3.0m x 3.0m

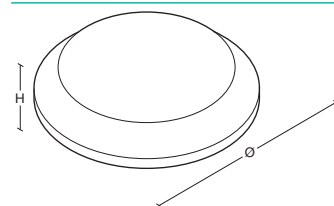


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m



Tamper proof screws

DIMENSIONS



D	H	KG	KG
500	107	4.0	5.0

TO SPECIFY

Surface mounted, vandal resistant anti-ligature luminaire with 3 or 4 mounting points and 3 tamper proof front face fixings for maintenance access. Fully integral HF gear and emergency, for 2D lamps, with 7W night light optional, 500mm diameter and 160mm deep – as Whitecroft Lighting HORIZON AL