

DTFN Elite

IP65/54 recessed luminaire with sealed two frame construction

Whitecroft
lighting

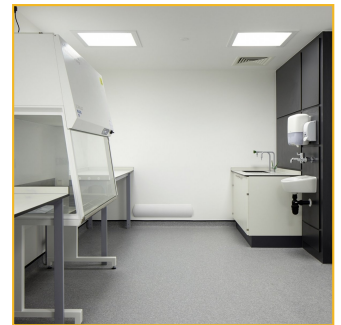


IP $\frac{54}{65}$

LED



Jacking Bracket



Optics

- LED Lumen packages that range from 3400 -12000 lumens (45W – 142W) or:
 - 4 x 14 or 24W T5
 - 2 or 4 x 28W T5
 - 2, 3 or 4 x 54W T5
- Emergency Output (BLF):
 - Prismatic Acrylic & Glass - 285 Lumens
 - Prismatic TP(a) only - 297 Lumens
- All optics are TP(a) rated:
 - Louvre above 4mm toughened glass or clear fireguard material (Not available with LED product)
 - Prismatic acrylic above 4mm toughened glass
 - Single sheet 3mm prismatic fireguard material
- LED product also includes a diffusing sheet mounted behind the prismatic material
- LED product has a colour rendering index of Ra >80 as standard
- Ra >90 is available as an option for enhanced examination in Healthcare environments

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

Body

- Front or back access (LED product is front access only)
- Suitable for cut and prepared aperture ceilings and sandwich panels with capped aperture reinforcements up to a depth of 91mm front and 108mm back access with standard brackets or 155mm front and 172mm back access with special deep ceiling bracket
- Through access version also available to facilitate maintenance of services located in the ceiling void*
- Welded steel body finished white
- RAL Colour: White RAL9016.
- 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
- 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. Concealed front frame fixings and white full gloss frames
- Solid aluminium side arm jacking brackets adjusted from within the sealed body (from the room above for back access versions)
- The diffuser clamping system is highly secure and will accept glass. The inner frame design facilitates diffuser replacement

* Through access option not available in LED product

Order codes

Louvre above 3mm clear TP(a) rated sheet

Louvre above 3mm clear TP(a) rated sheet	HF Gear	3hr Emergency	LL/CW
T5 4 x 14W	DTFNWFH414	DTFNWFH414EMIN	52
T5 4 x 24W	DTFNWFH424	DTFNWFH424EMIN	38
T5 2 x 28W	DTFNWFH228	DTFNWFH228EMIN	44
T5 4 x 28W	DTFNWFH428	DTFNWFH428EMIN	52
T5 2 x 54W	DTFNWFH254	DTFNWFH254EMIN	37
T5 4 x 54W	DTFNWFH454	DTFNWFH454 EMIN	41

Louvre above 4mm toughened glass

Louvre above 4mm toughened glass	HF Gear	3hr Emergency	LL/CW
T5 4 x 14W	DTFNWGH414	DTFNWGH414EMIN	47
T5 4 x 24W	DTFNWGH424	DTFNWGH424EMIN	36
T5 2 x 28W	DTFNWGH228	DTFNWGH228EMIN	46
T5 4 x 28W	DTFNWGH428	DTFNWGH428EMIN	47
T5 2 x 54W	DTFNWGH254	DTFNWGH254EMIN	39
T5 4 x 54W	DTFNWGH454	DTFNWGH454 EMIN	43

Prismatic acrylic above 4mm toughened glass

Prismatic acrylic above 4mm toughened glass	HF Gear	3hr Emergency	LL/CW
T5 4 x 14W	DTFNAGH414	DTFNAGH414EMIN	51
T5 4 x 24W	DTFNAGH424	DTFNAGH424EMIN	42
T5 2 x 28W	DTFNAGH228	DTFNAGH228EMIN	50
T5 4 x 28W	DTFNAGH428	DTFNAGH428EMIN	51
T5 2 x 54W	DTFNAGH254	DTFNAGH254EMIN	42
T5 3 x 54W	DTFNAGH354	DTFNAGH354EMIN	44
T5 4 x 54W	DTFNAGH454	DTFNAGH454EMIN	46

Prismatic TP(a) single sheet

Prismatic TP(a) single sheet	HF Gear	3hr Emergency	LL/CW
T5 4 x 14W	DTFNKH414	DTFNKH414EMIN	55
T5 4 x 24W	DTFNKH424	DTFNKH424EMIN	41
T5 2 x 28W	DTFNKH228	DTFNKH228EMIN	49
T5 4 x 28W	DTFNKH428	DTFNKH428EMIN	55
T5 2 x 54W	DTFNKH254	DTFNKH254EMIN	41
T5 3 x 54W	DTFNKH354	DTFNKH354EMIN	46
T5 4 x 54W	DTFNKH454	DTFNKH454EMIN	43

Prismatic acrylic above 4mm toughened glass, 600x600mm LED

B50						
Prismatic acrylic above 4mm toughened glass, 600x600mm LED	HF Gear	3hr Emergency	LL/CW	L70	L80	L90
3400 lumens 38W	DLNAGH14K	DLNAGH14KEM	75	>100k	>100k	65k
5700 lumens 68W	DLNAGH24K	DLNAGH24KEM	79	>100k	84k	39k

Prismatic acrylic above 4mm toughened glass, 1200x300mm LED

B50						
Prismatic acrylic above 4mm toughened glass, 1200x300mm LED	HF Gear	3hr Emergency	LL/CW	L70	L80	L90
3400 lumens 33W	DLNAGH34K	DLNAGH34KEM	75	>100k	>100k	65k
5700 lumens 57W	DLNAGH44K	DLNAGH44KEM	79	>100k	84k	39k

Note: Luminaire codes DLNAGY44K have 2 drivers and require 2 DALI addresses

Prismatic acrylic above 4mm toughened glass, 1200x600mm LED

B50						
Prismatic acrylic above 4mm toughened glass, 1200x600mm LED	HF Gear	3hr Emergency	LL/CW	L70	L80	L90
6800 lumens 59W	DLNAGH54K	DLNAGH54KEM	75	>100k	>100k	65k
8600 lumens 75W	DLNAGH64K	DLNAGH64KEM	80	>100k	>100k	46k
11500 lumens 104W	DLNAGH74K	DLNAGH74KEM	81	>100k	84k	39k
Note: Luminaire codes DLNAGY54K and DLNAGY64K have 2 drivers and require 2 DALI addresses						
Note: Luminaire codes DLNAGY74K have 3 drivers and require 3 DALI addresses						

Prismatic TP(a) single sheet. 600x600mm LED

B50						
Prismatic TP(a) single sheet. 600x600mm LED	HF Gear	3hr Emergency	LL/CW	L70	L80	L90
3500 lumens 38W	DLNKH14K	DLNKH14KEM	79	>100k	>100k	65k
6000 lumens 68W	DLNKH24K	DLNKH24KEM	82	>100k	84k	39k

Prismatic TP(a) single sheet, 1200x300mm LED

B50						
Prismatic TP(a) single sheet, 1200x300mm LED	HF Gear	3hr Emergency	LL/CW	L70	L80	L90
3500 lumens 33W	DLNKH34K	DLNKH34KEM	79	>100k	>100k	65k
6000 lumens 57W	DLNKH44K	DLNKH44KEM	82	>100k	84k	39k
Note: Luminaire codes DLNKH44K have 2 drivers and require 2 DALI addresses						

Prismatic TP(a) single sheet, 1200x600mm LED

B50						
Prismatic TP(a) single sheet, 1200x600mm LED	HF Gear	3hr Emergency	LL/CW	L70	L80	L90
7100 lumens 59W	DLNKH54K	DLNKH54KEM	79	>100k	>100k	65k
9000 lumens 75W	DLNKH64K	DLNKH64KEM	84	>100k	>100k	46k
12,000 lumens 104W	DLNKH74K	DLNKH74KEM	84	>100k	84k	39k
Note: Luminaire codes DLNKH54K and DLNKH64K have 2 drivers and require 2 DALI addresses						
Note: Luminaire codes DLNKH74K have 3 drivers and require 3 DALI addresses						

Accessories

Deep Ceiling Bracket 14/24W lamps Ceiling Brackets	CB/150CBKT600
Deep Ceiling Bracket 28/54W lamps Ceiling Brackets	CB/150CBKT1200

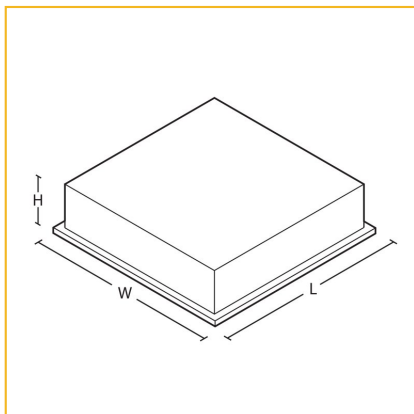
Options

BACK ACCESS	Add suffix BA	i.e DTFNKH414BA
COMEPS	Add suffix /EP	i.e DTFNKH414/EP
DALI DIMMING	Replace H with Y	i.e DTFNKY414
Ra90 (LED only)	Add 9 after D	i.e D9TFNKH414
SWITCH DIM	Replace H with X	i.e DTFNKX414

LED Performance

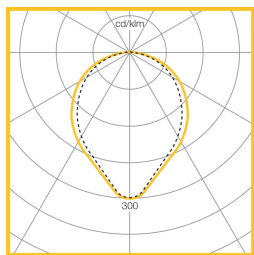
Colour Temp	RA (CRI)	Colour consistency
4000K	>80	MacAdam 3 SDCM

Dimensions

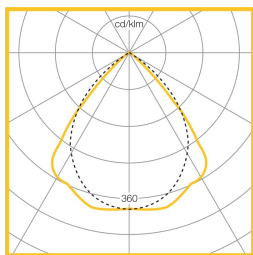


L	W	H	Prepared Aperture
725	603	124	555 x 677 -0 +5
725	603	145	555 x 677 -0 +5
1325	603	124	555 x 1277 -0 +5
1325	603	145	555 x 1277 -0 +5
1325	370	124	322 x 1277 -0 +5
1325	370	145	322 x 1277 -0 +5

Photometric Performance

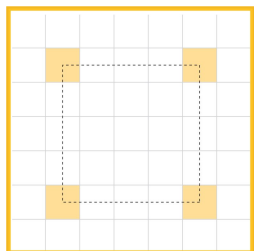


4 x 14W T5
Prismatic
LOR = 67.6%
SHR MAX = 1.39



4 x 14W Louvre
/Glass
LOR = 57.8%
SHR MAX = 1.55

Performance Guide



Lamps	4 x 14W T5
Illuminance	465 lux
Spacing	2.4m x 2.4m
Maintenance	0.8
Reflectance	70/50/20
Ceiling Height	2.7m
Working plane	0.8m

To Specify

Recessed non-modular T5 or LED clean room luminaire for 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. Suspension via solid aluminium jacking brackets adjusted from inside the luminaire (front access) or room above (back access) - as Whitecroft Lighting DTFN ELITE

Application images

