



– for modular ceilings



Optics

- Light source options:
 - LED Lumen packages that range from 3200 -11400 lumens (45W – 142W)
- Or
 - 4 x 14/24W T5
 - 2 or 4 x 28W T5
 - 2, 3 or 4 x 54W T5
- 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

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.

Body

- Front access only
- Welded steel body finished white
- Compatible with modular exposed T and spring T ceilings. Recessing panels are recommended on spring T ceilings to retain room integrity – Refer to page 404 for ceiling compatibility information
- Dual IP rated – to a BSI tested and certified construction as protecting the room to IP65 from void contamination with the front frame in place and IP54 with the frame removed
- Extruded aluminium outer frame (gasketed to the T bar) and inner frame integrated in line but at an angle to eliminate a vertical gap. Concealed front frame fixings and white full gloss frames
- The diffuser clamping system is highly secure and will accept glass. The inner frame design facilitates diffuser replacement
- Robust extruded aluminium side arm cam brackets adjusted from outside the sealed body





DTFA elite LED – for modular ceilings

Order Codes

Prismatic acrylic above 4mm toughened glass, 600 x 600mm:	Fixed Output	3 hr Emergency
3200 lumens 45W	DLAAGH14K	DLAAGH14KEM
5400 lumens 73W	DLAAGH24K	DLAAGH24KEM

Prismatic acrylic above 4mm toughened glass, 1200 x 300mm:	Fixed Output	3 hr Emergency
3200 lumens 45W	DLAAGH34K	DLAAGH34KEM
5400 lumens 73W	DLAAGH44K	DLAAGH44KEM

Prismatic acrylic above 4mm toughened glass, 1200 x 600mm	Fixed Output	3 hr Emergency
6400 lumens 90W	DLAAGH54K	DLAAGH54KEM
8100 lumens 107W	DLAAGH64K	DLAAGH64KEM
10900 lumens 142W	DLAAGH74K	DLAAGH74KEM

Prismatic TP(a) single sheet, 600 x 600mm:	Fixed Output	3 hr Emergency
3400 lumens 45W	DLAKH14K	DLAKH14KEM
5700 lumens 73W	DLAKH24K	DLAKH24KEM

Prismatic TP(a) single sheet, 1200 x 300mm:	Fixed Output	3 hr Emergency
3400 lumens 45W	DLAKH34K	DLAKH34KEM
5700 lumens 73W	DLAKH44K	DLAKH44KEM

Prismatic TP(a) single sheet, 1200 x 600mm:	Fixed Output	3 hr Emergency
6800 lumens 90W	DLAKH54K	DLAKH54KEM
8600 lumens 107W	DLAKH64K	DLAKH64KEM
11400 lumens 142W	DLAKH74K	DLAKH74KEM

Options

DALI DIMMING	Replace H with Y	i.e. DLAAGY14K
COMEPS	Add suffix /EP	i.e. DLAAGH14K/EP
EASYTEST	Add suffix /ET	i.e. DLAAGH14K/ET

Recessing Panels

For 600 x 600mm products	RP600x600
For 1200 x 300mm products	RP300x1200
For 1200 x 600mm products	RP600x1200



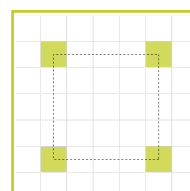
Cam Jacking Bracket

LED Performance

Colour Temp	Ra (CRI)	Life Expectancy	Colour Consistency
4000K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 4 SDCM

Performance Guide

Lamps	Illuminance	Spacing
LED 45W	534 lux	2.4m x 2.4m
(3400 lumens, 45W Prismatic TP(a) single sheet 600 x 600mm)		



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

Equivalent Lamp Types

3200/3400 Lumen Output
T5 lamp 4 x 14W

6400/6800 Lumen Output
T5 lamp 4 x 28W

8100/8600 Lumen Output
T5 lamp 3 x 54W

DTFA elite LED – for modular ceilings

Weight

Acrylic / Toughened glass

Lumen Outputs	Dimensions	Weight
3200 / 5400	600 x 600mm	16 KG
3200	1200 x 300mm	17 KG
5400	1200 x 300mm	17 KG
6400	1200 x 600mm	27 KG
8100 / 10900	1200 x 600mm	27 KG

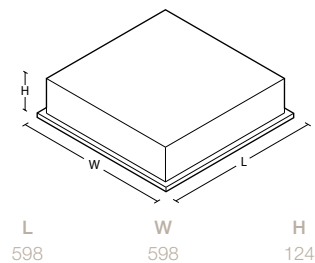
Prismatic TP(a)

Lumen Outputs	Dimensions	Weight
3400 / 5700	600 x 600mm	11 KG
3400	1200 x 300mm	12 KG
5700	1200 x 300mm	12 KG
6800	1200 x 600mm	18 KG
8600 / 11400	1200 x 600mm	18 KG

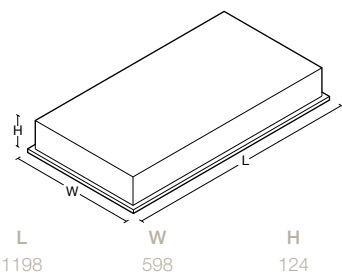
Note: Emergency luminaires are 1 KG heavier than the standard shown above

Dimensions

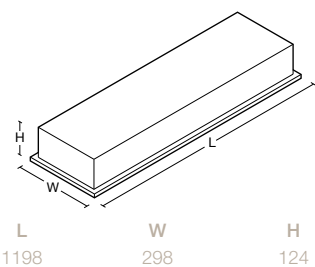
600 x 600mm



1200 x 600mm



1200 x 300mm



Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

Exposed T Grids

T15/T25 Pull up

Spring T Grids

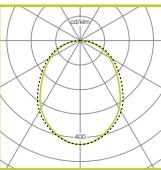
SAS – 150/120

Armstrong – Orcal 1800/3000

Burgess – Clip in/Abar

Dampa – Clip in

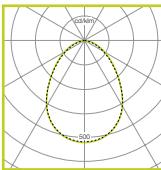
Photometric Performance



- 45W LED Prismatic TP(a) Single sheet
- LOR = 100%
- SHR MAX = 1.46
- 3380 lumens

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.70 0.97 1.04



- 45W LED Prismatic acrylic above 4mm toughened glass
- LOR = 100%
- SHR MAX = 1.46
- 3208 lumens

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.77 1.00 1.06

To Specify

Recessed modular LED clean room luminaire 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 robust aluminium cam brackets adjusted from outside the luminaire – as Whitecroft Lighting DTFA ELITE LED.

DTFA elite – for modular ceilings

Order Codes -

Louvre above 4mm
toughened glass

	HF Gear	3 hr Emergency
T5 4 x 14W	DTFAWGH414	DTFAWGH414EMIN
T5 4 x 24W	DTFAWGH424	DTFAWGH424EMIN
T5 2 x 28W	DTFAWGH228	DTFAWGH228EMIN
T5 4 x 28W	DTFAWGH428	DTFAWGH428EMIN
T5 2 x 54W	DTFAWGH254	DTFAWGH254EMIN
T5 4 x 54W	DTFAWGH454	DTFAWGH454EMIN

Louvre above 3mm
clear TP(a) rated sheet

	HF Gear	3 hr Emergency
T5 4 x 14W	DTFAWFH414	DTFAWFH414EMIN
T5 4 x 24W	DTFAWFH424	DTFAWFH424EMIN
T5 2 x 28W	DTFAWFH228	DTFAWFH228EMIN
T5 4 x 28W	DTFAWFH428	DTFAWFH428EMIN
T5 2 x 54W	DTFAWFH254	DTFAWFH254EMIN
T5 4 x 54W	DTFAWFH454	DTFAWFH454EMIN

Prismatic acrylic above 4mm
toughened glass

	HF Gear	3 hr Emergency
T5 4 x 14W	DTFAAGH414	DTFAAGH414EMIN
T5 4 x 24W	DTFAAGH424	DTFAAGH424EMIN
T5 2 x 28W	DTFAAGH228	DTFAAGH228EMIN
T5 4 x 28W	DTFAAGH428	DTFAAGH428EMIN
T5 2 x 54W	DTFAAGH254	DTFAAGH254EMIN
T5 3 x 54W	DTFAAGH354	DTFAAGH354EMIN
T5 4 x 54W	DTFAAGH454	DTFAAGH454EMIN

Prismatic TP(a) single sheet

	HF Gear	3 hr Emergency
T5 4 x 14W	DTFAKH414	DTFAKH414EMIN
T5 4 x 24W	DTFAKH424	DTFAKH424EMIN
T5 2 x 28W	DTFAKH228	DTFAKH228EMIN
T5 4 x 28W	DTFAKH428	DTFAKH428EMIN
T5 2 x 54W	DTFAKH254	DTFAKH254EMIN
T5 3 x 54W	DTFAKH354	DTFAKH354EMIN
T5 4 x 54W	DTFAKH454	DTFAKH454EMIN

Options

DALI DIMMING	Replace H with Y	i.e. DTFAWGY414
SWITCH DIMMING	Replace H with X	i.e. DTFAWGX414
COMEPS	Add suffix /EP	i.e. DTFAWGH414/EP
EASYTEST	Add suffix /ET	i.e. DTFAWGH414/ET
COMET	Add suffix /CT	i.e. DTFAWGH414/CT

RECESSING PANEL to retain room integrity on spring T ceilings

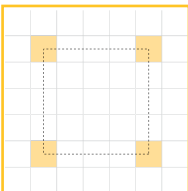
14/24W lamps	RP600x600
28/54W twin lamp options	RP300x1200
28/54W three and four lamp options	RP600x1200



Cam Jacking Bracket

Performance Guide

Lamps	Illuminance	Spacing
4 x 14W T5	465 lux	2.4m x 2.4m



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 14W T5	1250	24,000hrs
1 x 24W T5	1750	24,000hrs
1 x 28W T5	2625	24,000hrs
1 x 54W T5	4450	24,000hrs

DTFA elite – for modular ceilings

Weight

	Louvre/ toughened glass	Louvre/TP(a) rated sheet	Acrylic/ toughened glass	Prismatic TP(a)
T5 4 x 14W	15.0 KG	13.0 KG	16.0 KG	11.0 KG
T5 4 x 24W	15.0 KG	13.0 KG	16.0 KG	11.0 KG
T5 2 x 28W	16.0 KG	14.0 KG	17.0 KG	12.0 KG
T5 4 x 28W	26.0 KG	20.0 KG	27.0 KG	18.0 KG
T5 2 x 54W	16.0 KG	14.0 KG	17.0 KG	12.0 KG
T5 3 x 54W	–	–	27.0 KG	18.0 KG
T5 4 x 54W	26.0 KG	20.0 KG	27.0 KG	18.0 KG

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

Ceiling Integration

Refer to common ceiling compatibility matrix – See page 404

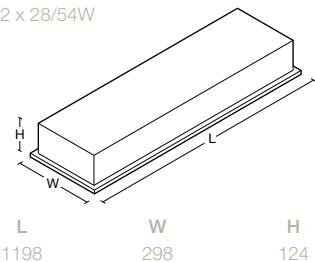
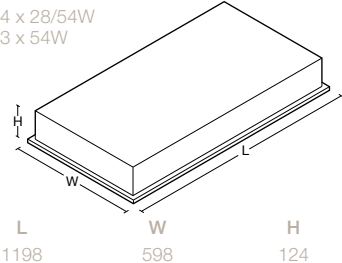
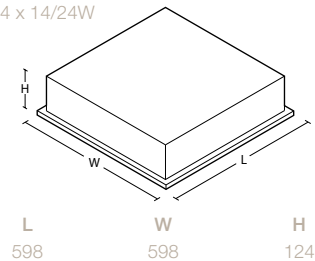
Exposed T Grids

T15/T25 Pull up

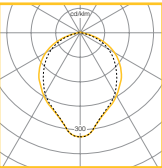
Spring T Grids

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

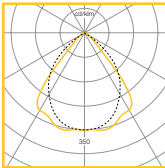
Dimensions



Photometric Performance



4 x 14W T5
Prismatic
• LOR = 62.6%
• SHR MAX = 1.39



4 x 14W T5
Louvre/glass
• LOR = 53.5%
• 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	0.42	0.60	0.65

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	0.55	0.58

To Specify

Recessed modular T5 clean room luminaire 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 robust aluminium cam brackets adjusted from outside the luminaire – as Whitecroft Lighting DTFA ELITE.