DTFU

IP65/54 recessed luminaire with sealed two frame construction

Whitecroft lighting

DTFU Spring Mechanism

DTFU Rear

DTFU 600x600

DTFU Jacking Bracket

Overview

DTFU is at the forefront of clean area luminaire design featuring unique design solutions to ensure that IP performance is not compromised whatever the ceiling type. Combining robust construction with optical performance, DTFU incorporates the use of edge-lit optics with Nhex-prism diffusing technology to meet the most stringent glare control requirements of EN12464-1.

Optics

- 600mm x 600mm*:
  - 3300 lumens (Ra80 - 28W glass & prism / Ra90 - 33W glass, 34W prism)
  - 4100 lumens (Ra80 - 34W glass, 35W prism / Ra90 - 41W glass, 42W prism)
- 300mm x 1200mm*:
  - 3300 lumens (Ra80 - 25W glass, 26W prism / Ra90 - 30W glass, 32W prism)
  - 4100 lumens (Ra80 - 32W glass & prism / Ra90 - 38W glass, 40W prism)
- 600mm x 1200mm*:
  - 6000 lumens (Ra80 - 48W glass, 49W prism / Ra90 - 55W glass, 61W prism)
  - 9000 lumens (Ra80 - 72W glass, 76W prism / Ra90 - 85W glass, 88W prism)
- 4000K colour temperature
- Nhex-prism optical control provides glare compliance to EN12464-1 as standard
- All optics are TP(a) rated to limit spread of flame in the event of fire
- Edge lit technology increases luminaire efficiency as the light source is closer to the optic
- Optional 4mm toughened glass front face resists all cleaning chemicals
- Optional Ra greater than or equal to 90 for enhanced examination in healthcare environments
- Emergency Output (BLF)
  - 600 x 600 RA80 - 400 lumens
  - 600 x 1200 RA80 - 610 lumens
  - 600 x 600 RA90 - 325 lumens
  - 600 x 1200 RA90 - 491 lumens

Body

- Universal installation, suitable for a wide range of modular and prepared aperture ceiling types
- Compatible with modular Exposed Tee and Spring Tee ceilings.
- Recessing panels are recommended on Spring Tee ceilings to retain room integrity
- Extruded aluminium front frame without screws to reduce risk from bacterial contamination
- LDPE non degradable single piece gasket to protect room from void contamination
- IP65 to the front, IP54 to the rear
- Back access and through access available to facilitate maintenance of services located in the ceiling void
- Through access option has robust suspension mechanism for safe removal and support of frame
- IP54 ceiling integration retained when front frame removed
- Solid aluminium side arm jacking brackets for assured ingress protection
- Suction cup kit required for maintainance (separate order)
- Integral emergency options:
  - 3 hour self contained
  - COMEPS DALI addressable
  - Also available with "EW" Routefinder Wireless for addressable emergency testing without the need for a 2 core communication cable
- Emergency variants supplied with Lithium Iron Phosphate (LiFePO4) battery technology; featuring extended design life reducing replacement frequency to lower total cost of ownership, and advancing sustainability through support for end of life recycling

Order codes

600 x 600

Nhex-prism Diffuser	Fixed Output	3hr Emergency	LL/CW	B50		
				L70	L80	L90
3300 lumens (28W)	DLUKH14K	DLUKH14KLEM	117	>100k	70k	52k
4100 lumen (35W)	DLUKH24K	DLUKH24KLEM	116	>100k	70k	52k

300 x 1200

Nhex-prism Diffuser	Fixed Output	3hr Emergency	LL/CW	B50		
				L70	L80	L90
3300 lumens (26W)	DLUKH34K	DLUKH34KLEM	127	>100k	70k	52k
4100 lumen (32W)	DLUKH44K	DLUKH44KLEM	127	>100k	70k	52k

600 x 1200

Nhex-prism Diffuser	Fixed Output	3hr Emergency	LL/CW	B50		
				L70	L80	L90
6000 lumens (49W)	DLUKH54K	DLUKH54KLEM	122	>100k	70k	52k
9000 lumens (76W)	DLUKH64K	DLUKH64KLEM	118	>100k	70k	52k

Accessories

DTFU Recessing Panel for Spring T 600mm x 600mm	DRP600X600
DTFU Recessing Panel for Spring T 300mm x 1200mm	DRP300X1200
DTFU Recessing Panel for Spring T 600mm x 1200mm	DRP600X1200
Suction Cup Kit *	SUCCUP

* Kit includes 2 suction cups

Options

Option		
DALI	Replace H with Y	i.e DLUKY14K
Back Access	Add BA to end of code, before Emergency	i.e DLUKH14KBA
Through Access ***	Add TA to end of code, before Emergency	i.e DLUKH54KTA
Glass	Change DLUK to DLUG	i.e DLUGY14K
Ra90	Add 9 after D	i.e D9LUKY14K
COMEPS	Add LEP	i.e. DLUKY14KLEP

*** Through access only available on 600mm x 1200mm luminaires
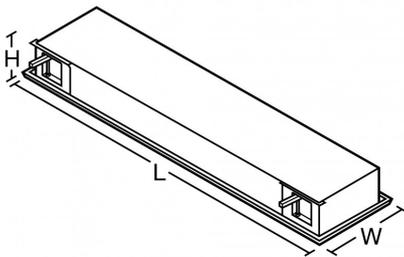
LED Performance

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

Dimensions
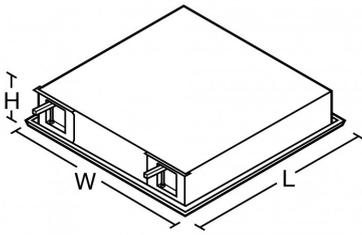
VERSION	L	W	H	KG	KG(EM)	Cut Aperture
600 x 600	598	598	139	12	13	573 x 573*

*Cut Aperture Tolerance +/-3

VERSION	L	W	H	KG	KG(EM)	Cut Aperture
300 x 1200	1198	298	139	12	13	1173 x 273*

*Cut Aperture Tolerance +/-3MM
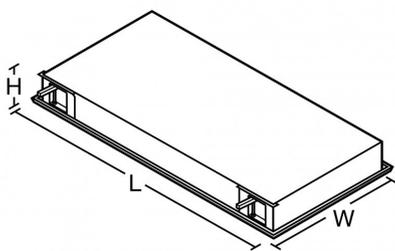
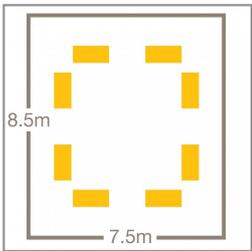| VERSION	L	W	H	KG	KG(EM)	Cut Aperture
600 x 1200	1198	598	139	23	24	1173 x 573*

*Cut Aperture Tolerance +/-3

Photometric Performance
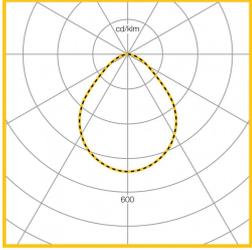
DTFU 600mm x 600mm
LOR = 100%
SHR MAX = 1.52
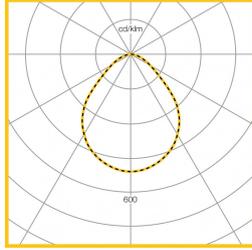
DTFU 600mm x 1200mm
LOR = 100%
SHR MAX = 1.56

Performance Guide

Lumens	9000 lumens
Average	1040 lux
Maintenance	0.8
Reflectance	70/50/20
Ceiling Height	3.00m
Working plane	1.00m

To Specify

Recessed LED clean room luminaire for modular or prepared aperture ceilings sealed to IP65 to the front on and IP54 to the rear. Twin in line extruded aluminium frames with angled integration and a screwless front facia. TP(a) prismatic diffuser as standard with optional toughened glass optic for maximum resistance to cleaning agents. Installation via solid aluminium jacking brackets, back access and through access luminaire options to facilitate maintenance including services located in the ceiling void - as Whitecroft Lighting DTFU.

Application images