

spear diffuser

IP44/IP20 T5 or LED recessed diffuser luminaire



Optics

- Light source options:
 - LED 3650 lumens (50W) 4000K
- Or
 - 3 or 4 x 14/24W T5
- Framed flat sheet TP(a) fire resistant prismatic diffuser, positively retained by wishbone side springs
- Smooth face to room side for easy cleaning

Body

- Steel body finished white
- IP44 to the void with frame in place, IP20 with frame removed
- Designed as a lay in on T15 and T25 ceilings
- Ceiling brackets required for prepared aperture ceilings or tegular tiles

Order Codes

Spear Diffuser	HF Gear	3 hr Emergency
LED 3650 lumens (50W)	SDLPH14K	SDLPH14KEM
T5 3 x 14W	SFPH314	SFPH314EMIN
T5 4 x 14W	SFPH414	SFPH414EMIN
T5 3 x 24W	SFPH324	SFPH324EMIN
T5 4 x 24W	SFPH424	SFPH424EMIN

Options

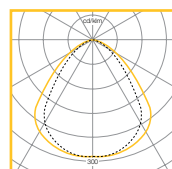
DALI DIMMING	Replace H with Y	i.e. SFPY314
SWITCH DIMMING*	Replace H with X	i.e. SFPX314
EASYTEST	Add suffix /ET	i.e. SFPH314/ET
COMEPS	Add suffix /EP	i.e. SFPH314/EP
COMET*	Add suffix /CT	i.e. SFPH314/CT

4 SLIDING BRACKETS FOR PLASTERBOARD
CEILINGS AND TEGULAR TILES

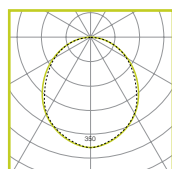
BCNSB

* Not available with Spear Diffuser LED

Photometric Performance



4 x 14W T5
• LOR = 63.6%
• SHR MAX = 1.63



50W LED
3650 lumens
• LOR = 100%

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.50 0.64 0.68

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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

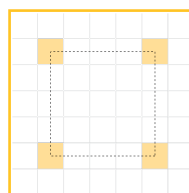
LED Performance

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

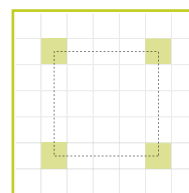


Performance Guide

Lamps	Illuminance	Spacing	Lamps	Illuminance	Spacing
4 x 14W T5	490 lux	2.4m x 2.4m	50W LED	512 lux	2.4m x 2.4m



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



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Ceiling Integration

Refer to common ceiling
compatibility matrix – See page 404

Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 14W T5	1250	24,000hrs
1 x 24W T5	1750	24,000hrs

Exposed T Grids

T25 Lay in
T15 Lay in
T15/T25 Pull up
(Sliding brackets required)

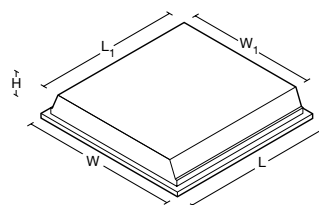
Equivalent Lamp Types

3650 Lumen Output
T5 4 x 14W

Plasterboard

Prepared aperture
(Sliding brackets required)

Dimensions



Version	L	W	H	L ₁	W ₁	Prep Aperture	KG	KG
T5 Exposed T/Plasterboard	595	595	97	575	575	580 x 580 ₋₃	5.0	6.0
LED Exposed T/Plasterboard	595	595	97	575	575	580 x 580 ₋₃	7.0	8.0

To Specify

Rigid fully boxed and jointed T5 or LED recessed luminaire with positively retained framed TP(a) diffuser to be suitable for mounting above or below a T15 or T25 exposed T or in prepared aperture ceilings – as Whitecroft Lighting SPEAR DIFFUSER