

# Foil

Integrated direct/indirect lighting and acoustics service raft solution for suspended mounting.



Foil Flush Diffuser Black Acoustic



Foil Drop Diffuser Black Acoustic



Foil Drop Diffuser Grey Organic Response



Foil Flush Diffuser Grey Acoustic

## Overview

Foil: reimagined - building on the history of the Foil family, the latest version of Foil takes lighting quality, acoustic performance, architectural integration and sustainability to a new level. Designed to deliver inspiring, motivational and comfortable spaces whatever the project needs within both educational and workplace environments.

Service integration reduces the build programme and ensures a clutter free working or learning environment.

## Lighting Performance

- Optics:
  - Drop Diffuser: Opal diffuser to maximise vertical illumination with maximum layout flexibility. Large surface area to maximise visual comfort and support the delivery of glare compliant spaces.
  - Flush: Quadaprism to deliver effective glare control and maximise user comfort within the space.
- Distribution:
  - Drop Diffuser: 66% down, 34% Up
  - Flush: 70% down, 30% Up
- Output options:
  - Flush (based on 4K, Ra80):
    - 1800mm - 3762Llm/26.6W (141.4Llm/w)
    - 2400mm - 3711Llm/25W (148.4Llm/w)
    - 2400mm - 4714/31.7W (148.7Llm/w)
    - 2400mm - 5718/38.8W (147.4Llm/w)
  - Drop (based on 4K, Ra80):

- 1800mm - 3936Lm/28.6W (137.6Lm/w)
- 2400mm - 4796Lm/33.5W (143.2Lm/w)
- 2400mm - 5781Lm/40.6W (142.4Lm/w)
- 2400mm - 7041Lm/50.2W (140.3Lm/w)\*

- Light sources available:
  - Ra80 or Ra90
  - 3000K or 4000K
- LED chip: Standard (2835) & E-light (3030) available. E-light offers up to 8% energy saving versus standard LED technology.
- Control Gear: DALI 2 as standard
- Lighting Controls: Option with Organic Response detector.
- Emergency Lighting:
  - Integrated 3 hour LiFeP04. 3hr Keyswitch (EM), auto-test (EP) and wireless auto-test (EW) available.
  - Output (based on 4K, Ra80 Std Chips):
    - Flush - 412 lumens
    - Drop - 372 lumens

For specific product variant information, including lifetime, efficacy, power, output and electrical data, please click on the individual part number under 'Order Codes' and view the datasheet

\* >3,000cd/m2

#### Part Code Logic:

Type	E-Light	Controls	Driver Type	Nominal Output (Lumens)   Luminaire Length (mm)	CCT	Ra	Acoustic Colour	Emergency
Foil (F)	N/A (I) E-Light (E)	N/A (I) Organic Response (RG)	DALI (Y)	3800lm   1800mm   Flush Optic (1) 3800lm   2400mm   Flush Optic (2) 4700lm   2400mm   Flush Optic (3) 5700lm   2400mm   Flush Optic (4)  3950lm   1800mm   Drop Optic (5) 4800lm   2400mm   Drop Optic (6) 5800lm   2400mm   Drop Optic (7) 7050lm   2400mm   Drop Optic (8)	3000 (3K) 4000 (4K)	80 (8) 90 (9)	Black (B) Grey (G)	NA(I) EM (EM) DALI (EP) Wireless (EW)

#### Notes:

- Nominal outputs based on 4K, Ra80 Light source
- Body Colour: Silver (RAL9006) as standard.
- Optic Type: 1-4 = Flush Optic, 5-8 = Drop Optic
- Nominal Output based on Ra80, 4k light source.
- Acoustic Colour: Available in grey or black as standard.
- Routefinder Wireless emergency (EW) only available without control options (Organic Response)

# Construction

- Integrated lighting, acoustics and service system
- Main Body:
  - Steel body
  - RAL Colour: Silver RAL9006
  - IP44 version as standard to ensure compliance to DfE Annex 2E & SLL Handbook for Science/Technology Classrooms.
- Acoustics:
  - Grey & Black acoustic material available. Other colours available through [Custom Made](#)
  - 40mm deep acoustic attenuation side panels.
  - Fire Rating: B-s2,d0 (ISO 13501-1:2002)
  - Made from 60% recycled Polyester Wool.
  - Acoustic performance test available from the 'Downloads' section.
- Multiple Accessories to suit project requirements:
  - Infills:
    - 300mm\*\*
    - 600mm\*\*
    - 900mm
    - 1200mm
    - 1500mm
  - Additional:
    - Suspension Kit (3m) - Note this is NOT required for 300mm or 600mm infill sections.
    - Starter Bracket - Bracket for fixing infill or luminaire to a wall.
    - End Cap - Single piece
- Innovative Modular Build Construction:
  - Reduced time risk for on site management
  - Removal of superfluous material to reduce weight from luminaire
  - Out of box operation with use of Organic Response controls
  - Innovative packaging solution to streamline onsite management
  - Flexible installation methodology to suit project timelines.
- Service Ways:
  - To meet the requirements of emergency service standards such as BS5839-1 (Fire Detection and Fire Alarm Systems) the Foil luminaire is designed with 2 separate wireway compartments to ensure full separation of services.
  - 90mm clear space available for integration of other services

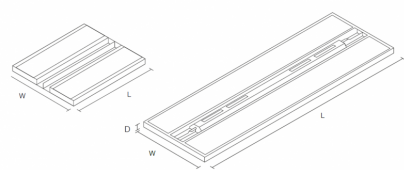
*\*\*suspension kit NOT required.*

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## LED Performance

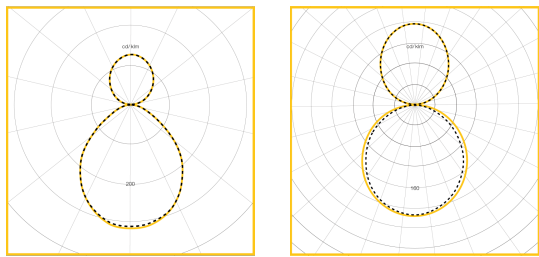
Colour Temp	RA (CRI)	Colour consistency
4000K	Ra80	MacAdam 3 SDCM
4000K	Ra90	MacAdam 3 SDCM
3000K	Ra80	MacAdam 3 SDCM
3000K	Ra90	MacAdam 3 SDCM

# Dimensions



VERSION	L	W	H	KG	KG(EM)
1800mm Flush Diff	1800	770	79	15.6	16.1
1800mm Drop Diff	1800	770	119	17.9	18.4
2400mm Flush Diff	2400	770	79	20.8	21.3
2400mm Drop Diff	2400	770	119	24.6	25.1
300mm Infill	300	770	79	3.2	
600mm Infill	600	770	79	5.8	
900mm Infill	900	770	79	8.1	
1200mm Infill	1200	770	79	10.5	
1500mm Infill	1500	770	79	12.9	

## Photometric Performance



Foil Drop Diffuser  
LOR = 100%  
SHR MAX = 1.58

Foil Flush Diffuser  
LOR = 100%  
SHR MAX = 1.54

## To Specify

Integrated direct/indirect lighting and acoustics solution for suspended mounting. Dropped/Flush Diffuser for optimised visual comfort and performance. With specialist acoustic material complete with pre & post consumer recycled content. Continuous rows can be formed using separately supplied accessories: suspension kits, infills, row starters and end caps (to be ordered separately). Includes 2 additional wiring channels to enable other services to be integrated into the system. As Whitecroft Lighting FOIL