Foil

Light and sound:
the total workspace solution

Whitecroft lighting

Beyond compliance | Beyond lighting | Beyond expectations

Every workspace deserves to be lit by Foil

Already the market leader, our commitment to sustainability and performance has taken it to the next level.

A classic, reimagined.

Foil

Every angle illuminated; every base covered

Deliver acoustic attenuation to support occupier comfort with integrated anechoic panels made from over 40% recycled material.

Lighting performance beyond the horizontal with optical innovation considering all compliance metrics, as required in EN 12464-1:2021, Society of Light & Lighting: Lighting Guide 7, British Council of Offices 2023.

Optimal user experience with integrated wireless controls that create lighting scenes appropriate for different workspace settings today and into the future.

Reduce operational energy use with the latest LED and battery technology, integrated controls for daylight and occupancy.

Simple install and clutter free aesthetic with fewer installation points needed, integrated acoustic panels and the ability to integrate further services.

Meet your sustainability goals thanks to our commitment to circular design principles and the assessment and reporting of the full life-cycle impact of our products.

Lighting design done right

We know that all too often lighting design only considers two-dimensions — the horizontal plane. But work doesn't just happen at a desk. Workplaces are interactive, multi-dimensional environments and good design needs to understand that and respond to it.

Foil creates the perfect three-dimensional light, combining direct and indirect light and using innovative optical design to balance vertical illuminance with visual comfort.

cd/ 1000 lm

100

200

300

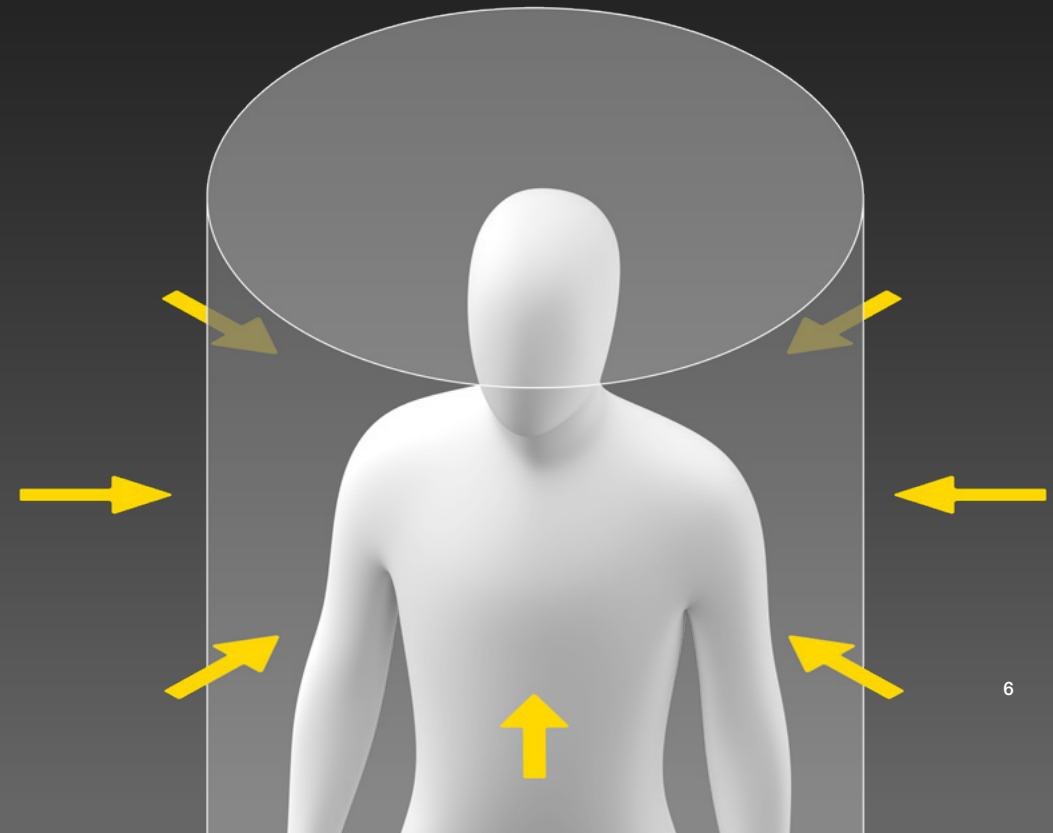# Three-dimensional design — putting light in the right place

Two-dimensional lighting focuses purely on light on desks and neglects a vital aspect of collaborative working — non-verbal communication. With an estimated 55% of communication delivered non-verbally*, achieving high levels of cylindrical illuminance and modelling will reduce shadows and masking of non-verbal cues.

Light designed to fall on vertical planes also illuminates walls. Wall coverings should also be considered as part of the lighting solution, reflecting light to create a bright, comfortable space without disruptive glare.
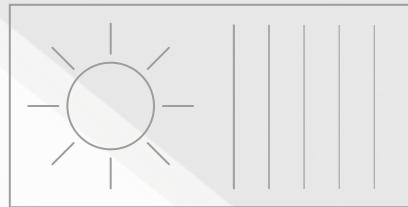
*Mehrabian, A., & Weiner, M . (1967). Decoding of inconsistent communications. *Journal of Personality and Social Psychology*

	EN 12464-1:2021	Society of Light & Lighting: Lighting Guide 7	British Council of Offices 2023
Horizontal/task (lux)	Filing, copying: 300 lux Writing, typing, reading, data processing: 500 lux	300 lux purely screen 500 lux mixed/paper-based	No less than 300 lux
Uniformity (task)	≥0.6	≥0.6	≥0.6
Uniformity (surround)	≥0.4		≥0.4
Walls (lux)	150	150	
Cylindrical (Ecyl)	100	100	
Ceiling (lux)	150	150	
Discomfort glare (UGR)	≤19	≤19	
Disability glare (cd/m²)	≤3000	≤3000	

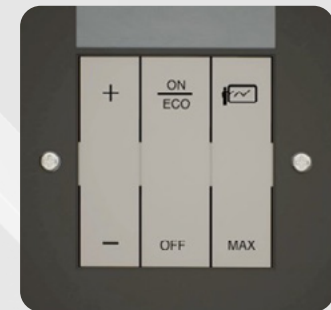Note: context modifiers may require alternative levels

Smart, yet simple

Less energy, more flexibility with our range of intuitive controls

Lighting design should consider the function of the workspace throughout the day and even into the evening, as needs — and daylight — change. **Organic Response®** automatically balances workspace lighting with daylight to keep levels comfortable and reduce energy by up to 30%.

Intuitive controls also offer users lighting options to help focus attention and improve comfort for screen and face-to-face work.

Sounding good?

Integrated acoustic enhancement that's fully compliant.

Open soffit ceilings not only create a modern aesthetic, it also has practical considerations; maximising daylight and improving access for ease of maintenance. However, the exposed hard surface means an acoustic reverberation solution is needed.

Walls are valuable learning spaces, so not ideal locations for sound cladding, which can also be costly to install. Foil solves this, integrating panels filled with anechoic material.

- Independently tested and proven to reduce acoustic reverberation
- Supports full compliance with DfES Building Bulletin 93
- Reduces ceiling clutter and improves maintenance access
- Panel body made from 44mm thick mineral wool with over 40% recycled content
- Panel facing made from 100% recycled PET in a variety of colours to suit requirements

For more technical information, see page 12 or visit our website.

In-use energy

Utilising latest LED, LiFePO4 battery and controls technology to maximise and reduce overall energy consumption in operation

Increased recycled content

Acoustic material made from over 40% pre-consumer recycled content

Future thinking

Cartridge technology for hassle-free future upgrades

Innovative optimisation

Such as utilisation of double-sided LED boards reduces Foil's carbon impact and use of materials

Less material

We've worked hard with our suppliers to reduce waste and remove any superfluous material

Less packaging

Our minimal packaging approach removes waste from your site

Reduced
embodied carbon
material extraction
carbon miles
maintenance
end of life waste

Increased performance
Foil re-imagined

Foil was already a market leader

But our commitment to sustainability means we're always restless for more. We work to circular design principles. That means finding ways to reduce the impact of our products throughout their life-cycle. And we don't just say it, we prove it. Foil comes with a third-party life-cycle assessment (LCA) and environmental product declaration (EPD), calculating whole life environmental impact.

Streamline design, streamlined installation

We understand that construction sites are pressured environments balancing cost, time on site and safety. It's why Foil is designed with straightforward installation in mind to de-risk your project timelines.

Zero-fuss install

Foil offers a staged installation to reduce risk of damage to the product. Shipped to save on site storage and labour intensive movement.

Integration means simplification

Not only does Foil integrate light and acoustic management, a wide range of services like smoke detectors, sprinkler heads and public address speakers can also be installed, minimising ceiling clutter.
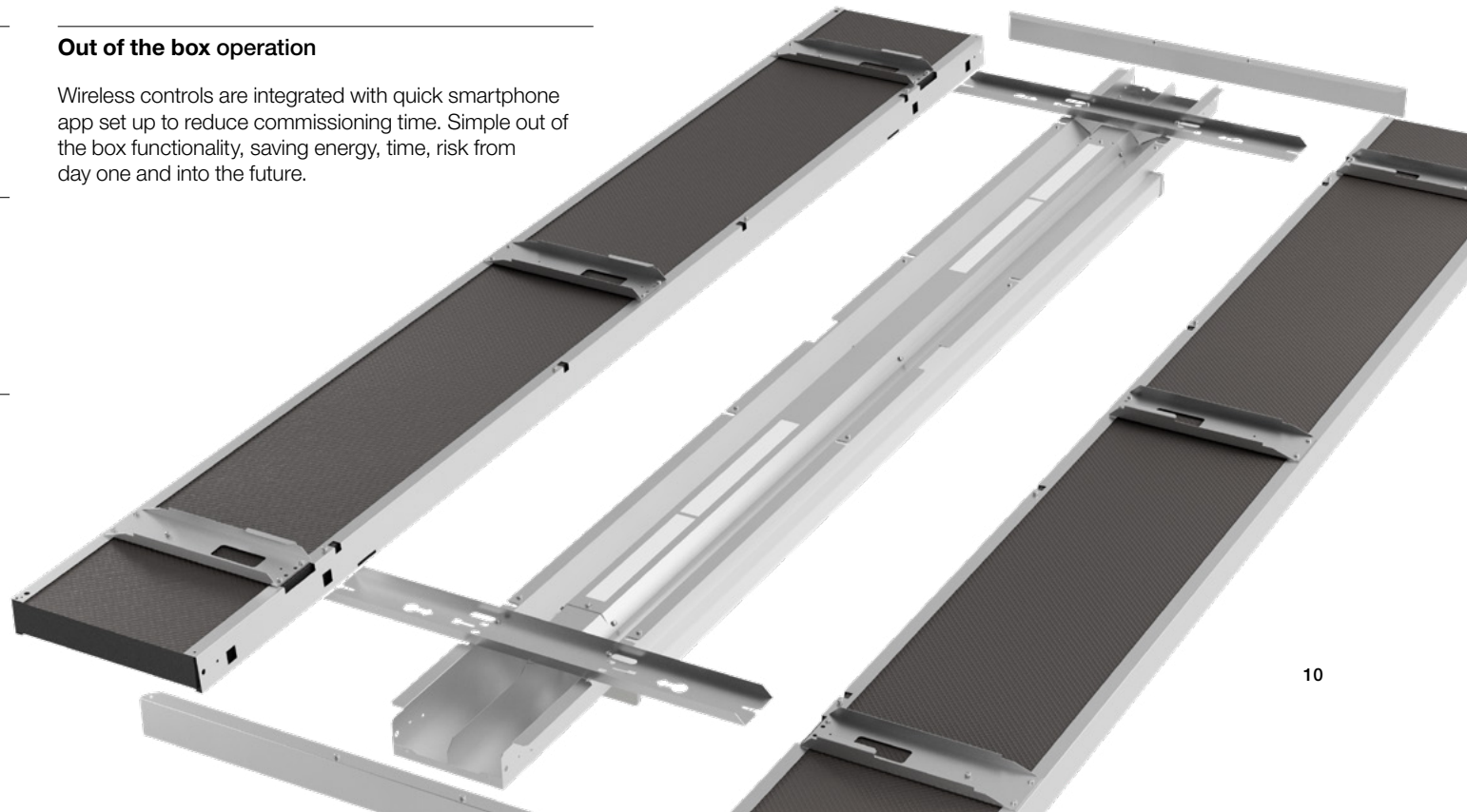
Easy, on the spot maintenance

A modular build approach is used throughout. For example, a removable cartridge gives quick access to emergency lighting batteries and all components allowing easy maintenance and upgrades on the spot and at floor level.

Out of the box operation

Wireless controls are integrated with quick smartphone app set up to reduce commissioning time. Simple out of the box functionality, saving energy, time, risk from day one and into the future.

Foil offers a range of product options suitable for a variety of environments.
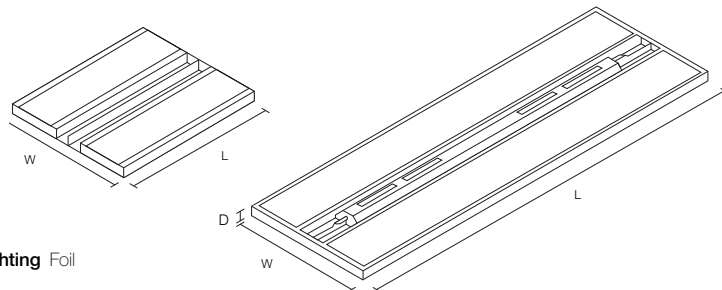For product information and technical details please visit our website.

Type	Optic		Length (mm)		Body colour	Acoustic colour		Colour temperature		Colour rendition		Nominal output							Driver	Emergency				Integrated controls		LED type	
	Flush	Drop	2400	1800	Grey RAL9006	Grey	Black	3000K	4000K	Ra80	Ra90	3750	4700	5700	3970[1]	4900	5900	7200	DALI	N/A	EM	Routefinder Wireless[2]	COMEPS	None	Organic Response®	Standard	E Light
Flush diffuser	•		•	•	•	•	•	•	•	•	•	•	•	•					•	•	•	•	•	•	•	•	•
Drop diffuser		•	•	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•

[1] Only available in 1800mm   [2] Not available with Organic Response or AirControl
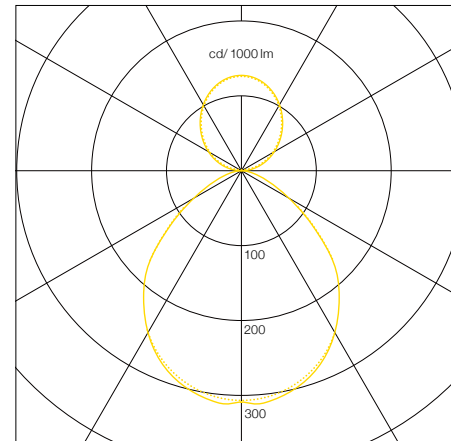
Product dimensions

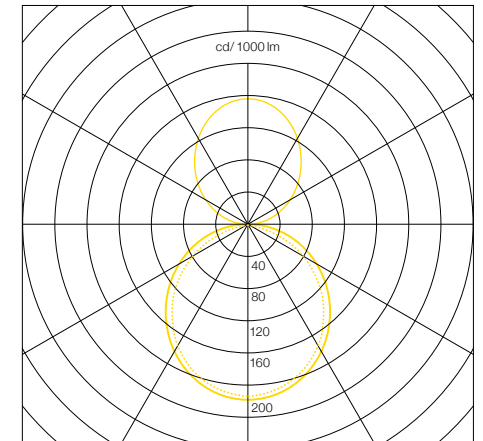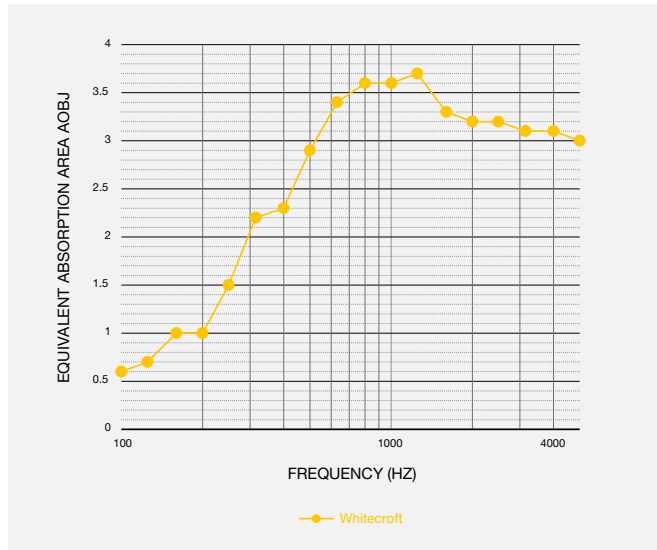| Description	Dimensions (mm)
FOIL 2400MM FL	770W x 2400L x 79D
FOIL 2400MM DD	770W x 2400L x 119D
FOIL 1800MM FL	770W x 1800L x 79D
FOIL 1800MM DD	770W x 1800L x 119D
FOIL INFILL 300MM	770W x 300L x 77D
FOIL INFILL 600MM	770W x 600L x 77D
FOIL INFILL 900MM	770W x 900L x 77D
FOIL INFILL 1200MM	770W x 1200L x 77D
FOIL INFILL 1500MM	770W x 1500L x 77D

IP44

Foil flush diffuser polar curve

cd/ 1000 lm

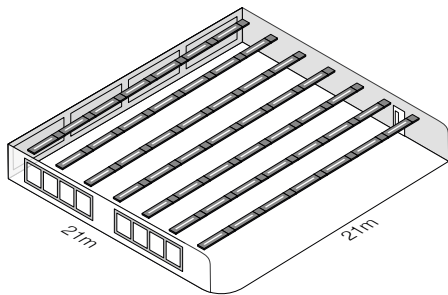## Foil drop diffuser polar curve

cd/ 1000 lm

Acoustic performance

Open Plan Office

70/50/20 Reflectance Values
3.2m Ceiling Height, 2.7m Mtg Height, 0.8MF

Flush diffuser

Variant	High Output E-Light Ra80 4000K	Mid Output E-Light Ra80 4000K	Low Output E-Light Ra80 4000K
Horizontal/Task (lux)	481	403	319
Uniformity (task)	0.78	0.78	0.78
Walls (lux)	216	179	145
Ceiling (lux)	321	247	217
Cylindrical (Ecyl)	216	180	144
Discomfort Glare (UGR)	16.2	16.0	14.6
Disabilty Glare (cd/m2)	2828	2478	1865
W/m2 (W/m2/100lux)	4.33/0.90	3.67/0.91	3.11/0.97

Drop diffuser

Variant	Mid Output E-Light Ra80 4000K	Low Output E-Light Ra80 4000K
Horizontal/Task (lux)	505	419
Uniformity (task)	0.77	0.77
Walls (lux)	258	214
Ceiling (lux)	305	253
Cylindrical (Ecyl)	248	206
Discomfort Glare (UGR)	17.5	16.9
Disabilty Glare (cd/m2)	2966	2463
W/m2 (W/m2/100lux)	4.98/0.99	4.13/0.99

bsi
ISO 9001 Quality Management Systems CERTIFIED
ISO 14001 Environmental Management CERTIFIED
ISO 45001 Occupational Health and Safety Management (SSIP) CERTIFIED

MADE IN BRITAIN

UK GBC

CERTIFIED cradle to cradle BRONZE