

**3F Filippi**

**3F SOUND LUX**

**LED CATALOGUE**





# 3F Sound Lux

Design: **3F Filippi + Mascagni**

3F Sound Lux is a fixture that has been developed to provide innovative lighting in the workplace. The fixture is the result of a combination of different materials and lighting excellence.

The light fixture is composed of an acoustic panel covered with a microperforated laminate and is fitted with a LED source that emits a white light (3000 degrees Kelvin).

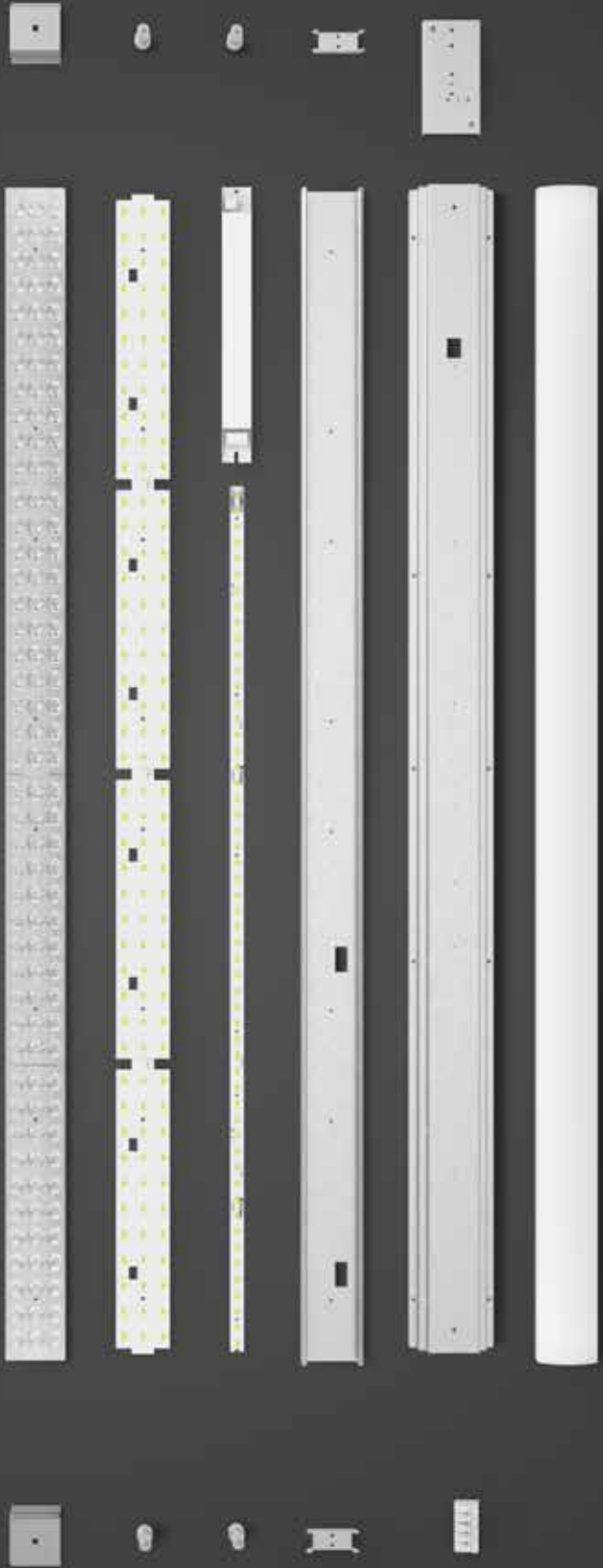
This light fixture was designed to provide the best visual and acoustic comfort to make working environments more welcoming. Available with various finishes so as to integrate perfectly with its surroundings 3F Sound Lux can also be suspension installed.

Its design also makes it particularly versatile because its modules allow for easy reconfiguration to suit any environment to adapt effectively if the furniture is rearranged in the work space.

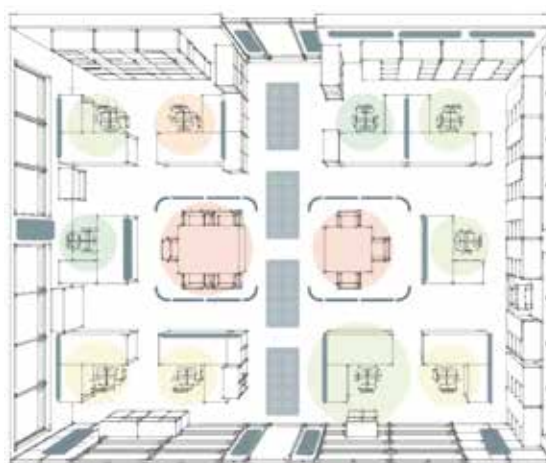
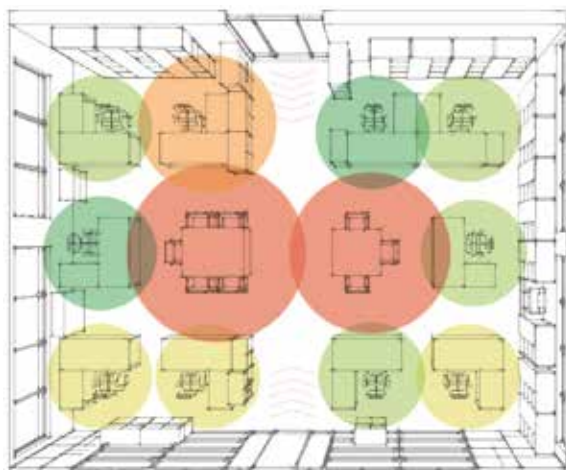
3F Sound Lux was developed in collaboration with Mascagni S.p.A., the Italian brand of excellence in the design and manufacture of office furniture.

Collaboration started by integrating 3F Filippi's lighting know-how with Mascagni's vast experience and design capabilities in creating high-end professional furnishings.

This highly technical partnership confirms 3F Filippi's determination to obtain the same results for work environments that they have already achieved on a global level in the Industrial and Retail lighting sectors.



# ACOUSTIC WELLBEING



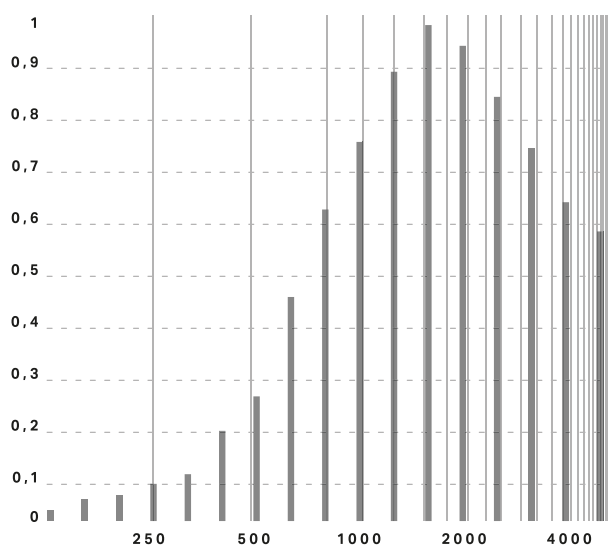
A general approach is not suitable to consider space for personal, group, work or leisure use where sound becomes an important factor for comfort and productivity.

Every place has their own characteristics that can vary according to the number of people in it and the way it is built and the materials used. For every space it is necessary to study a specific solution: there are no constraints defined without careful control.

Accurate analysis of an open space, for example must start with the interaction between the people who work there and how they work. Different jobs require different levels of concentration and interaction.

With careful and rational arrangement of the acoustic panels, living spaces go back to being comfortable just as work becomes more productive and bad habits give way to consistent communication.

## ACOUSTIC PERFORMANCE



The acoustic performance of the 3F Sound Lux panels was assessed using special measurements in a reverberation chamber carried out by the Giordano Institute (an internationally recognised Certification Body). The values obtained confirmed the exceptional sound absorption of the panel in the frequency range of speech. The panel is certified as class A, the best among the categories defined in EN ISO 11654, in the speech spectrum in octave bands from 1000 a 4000 Hz. The 3F Sound Lux acoustic panel covers a range of frequencies from 500 to 5000 Hz with excellent results from between 1000 and 1250 Hz where it reaches a value of 99%.

The technology and materials used ensure that the acoustic panels have Class 1 Fire Reaction Classification (reference to B S2 d0 certification with reference to European standard EN13501-1).

# SCREENS AND FINISHES

Sound Lux technology makes it possible to resolve complex issues easily.

Starting with energy wastage which is eliminated thanks to the special lenses applied to the LED sources which were designed and produced entirely by 3F Filippi, which allow for efficiency of 97% ( a value that places this fixture at the top of its class). These lenses also have a significant effect on the visual comfort of the light fixture. Installed on desks Sound Lux prevents annoying reflections on computer screens and mobile devices and does not produce any glare that could disturb colleagues sitting at other work stations.

DALI dimmable cabling also increases its ease of use making it possible to adjust the power and brightness as required or in an automated way.

PMMA lenses

Average luminance <math><3000\text{ cd/m}^2</math> for corners >math>65^\circ</math> radial.

## Finish

Black Forest



Walnut





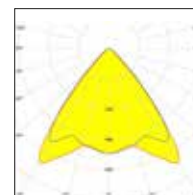
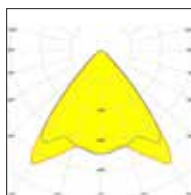
# PRODUCT RANGE

## 3F Sound Lux Direct Emission



Model	450	900
CCT (K)	3000	3000
CRI	>90	>90
Brightness	<3000 cd/m <sup>2</sup>	<3000 cd/m <sup>2</sup>
UGR	UGR <19	UGR <19
Product dimensions (mm)	1780 x 450 x 43	1780 x 900 x 43
Protection class	IP40	
Finish	Black Forest   Walnut	

## Photometric distribution





### 3F Sound Lux DI Emission



Model	450	900
CCT (K)	3000	3000
CRI	>90	>90
Brightness	<3000 cd/m <sup>2</sup>	<3000 cd/m <sup>2</sup>
UGR	UGR <19	UGR <19
Product dimensions (mm)	1780 x 450 x 43	1780 x 900 x 43
Protection class	IP40	
Finish	Black Forest   Walnut	
Photometric distribution		



# 3F Sound Lux

## Construction characteristics

### Illuminotechnical characteristics

Controlled symmetric distribution.  
 Lifetime (L92/B10): 30000 h. (tq+25°C)  
 Lifetime (L85/B10): 50000 h. (tq+25°C)  
 Lifetime (L80/B10): 80000 h. (tq+25°C)  
 Lifetime (L75/B10): 100000 h. (tq+25°C)  
 Photobiological safety RG0, risk exempt, in compliance with IEC 62471, IEC/TR 62778.

### Acoustic

3F Sound Lux acoustic panel covers a range of frequencies from 500 to 5000 Hz, with exceptional results in the range from 1000 to 1250 Hz where it reaches a value of 99%. Certified as class A, (UNI EN ISO 11654) in the speech spectrum in octave bands from 1000 to 4000 Hz.

### Mechanical characteristics

The lighting fixture consists of an acoustic panel covered by a micro-perforated layer of natural wood.  
 Hot-galvanized steel lighting unit coated with a polyester based paint enclosed in a stainless steel casing.  
 Transparent methacrylate controlled distribution lenses with flat external surface.  
 Suspensions fitted with chrome bosses

and quick-acting regulator, 2 m galvanized steel cable.

### Electrical characteristics

In compliance with EN 60598-1.  
 Transparent 2.3 m 5x1.5 mm power cable with white power supply case for mounting on the ceiling.

## Source characteristics

- Linear LED modules.
- Color initial tolerance (MacAdam): SDCM 3.

## On request

- different power levels, colour rendering indices and colour temperatures
- body with a tobacco finish

## Applications

Environments with video terminals, executive, open space and representative offices.

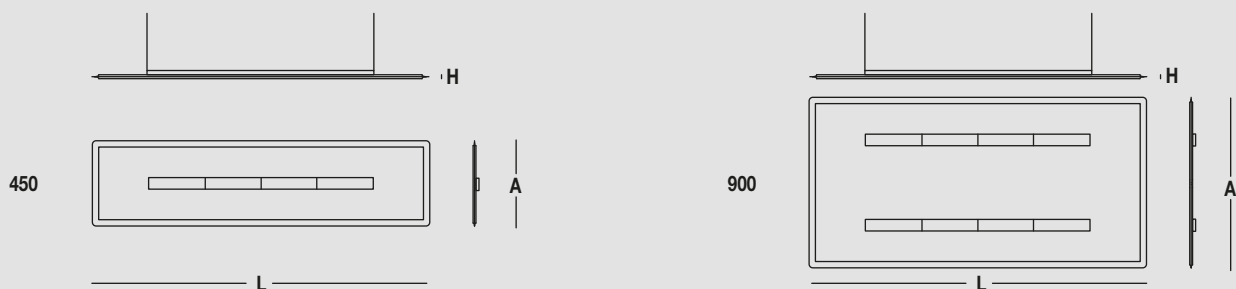
## Installation

Suspension installation.

## Light Management

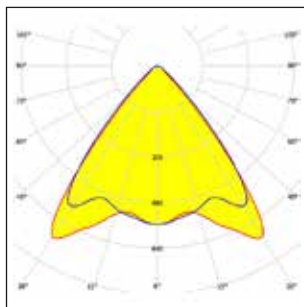
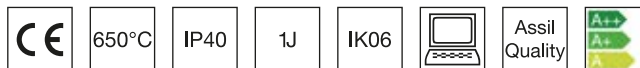
The DALI products of this family can be controlled manually with the technology 3F Easy or even automatically and manually using the 3F Smart Dimming technology (refer to "Light Management" on our website).

Dimensions



## 3F Sound Lux | Black Forest

Code 6001

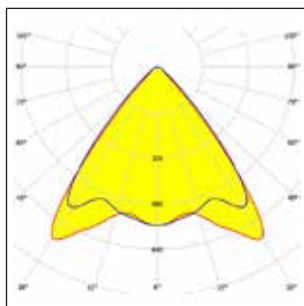
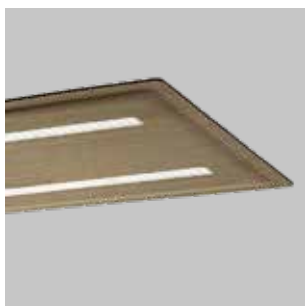
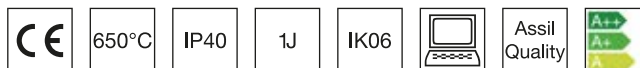
L<3000 cd/m<sup>2</sup> 65°

Controlled symmetric distribution.  
Average luminance <3000 cd/m<sup>2</sup> for radial angles >65°.  
Body with a black forest finish.

Code	Item	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions L x A x H
<b>DALI electronic wiring 230V-50/60Hz</b>						
6001 <sup>NEW</sup>	3F Sound Lux 450 RE 35/930 DALI	37	4197	3000	>90	1780x450x43
6007 <sup>NEW</sup>	3F Sound Lux 900 RE 70/930 DALI	74	8395	3000	>90	1780x900x43

## 3F Sound Lux | Walnut

Code 6005

L<3000 cd/m<sup>2</sup> 65°

Controlled symmetric distribution.  
Average luminance <3000 cd/m<sup>2</sup> for radial angles >65°.  
Body with a walnut finish.

Code	Item	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions L x A x H
<b>DALI electronic wiring 230V-50/60Hz</b>						
6005 <sup>NEW</sup>	3F Sound Lux 450 RS 35/930 DALI	37	4197	3000	>90	1780x450x43
6011 <sup>NEW</sup>	3F Sound Lux 900 RS 70/930 DALI	74	8395	3000	>90	1780x900x43



# 3F Sound Lux Direct/Indirect

## Construction characteristics

### Illuminotechnical characteristics

Direct-indirect distribution.

Lifetime (L92/B10): 30000 h. (tq+25°C)

Lifetime (L85/B10): 50000 h. (tq+25°C)

Lifetime (L80/B10): 80000 h. (tq+25°C)

Lifetime (L75/B10): 100000 h. (tq+25°C)

Photobiological safety RG0, risk exempt, in compliance with IEC 62471, IEC/TR 62778.

### Acoustic

3F Sound Lux acoustic panel covers a range of frequencies from 500 to 5000 Hz, with exceptional results in the range from 1000 to 1250 Hz where it reaches a value of 99%. Certified as class A, (UNI EN ISO 11654) in the speech spectrum in octave bands from 1000 to 4000 Hz.

### Mechanical characteristics

The lighting fixture consists of an acoustic panel covered by a micro-perforated layer of natural wood.

Hot-galvanized steel lighting unit coated with a polyester based paint enclosed in a stainless steel casing.

Transparent methacrylate controlled distribution lenses with flat external surface. Suspensions fitted with chrome bosses

and quick-acting regulator, 2 m galvanized steel cable.

### Electrical characteristics

In compliance with EN 60598-1.

5-pole transparent power cable with white ceiling power supply box, single 230V circuit, 2 DALI addresses (versions 450) and 4 DALI addresses (versions 900).

## Source characteristics

- Linear LED modules.
- Color initial tolerance (MacAdam): SDCM 3.

## On request

- different power levels, colour rendering indices and colour temperatures
- body with a tobacco finish

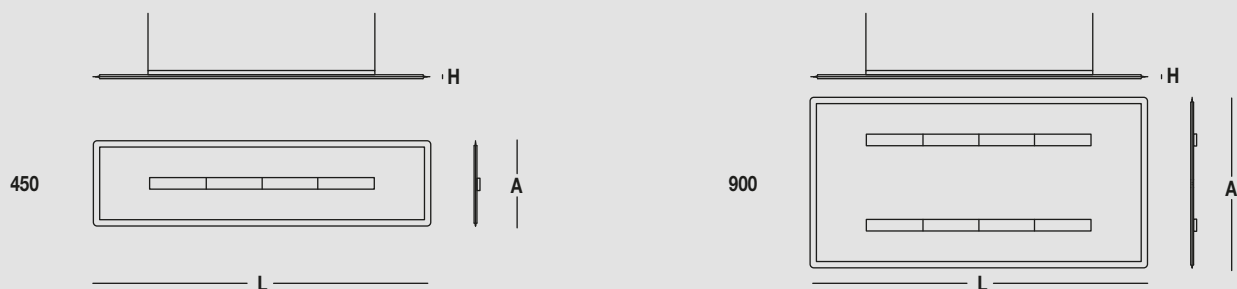
## Applications

Environments with video terminals, executive, open space and representative offices.

## Light Management

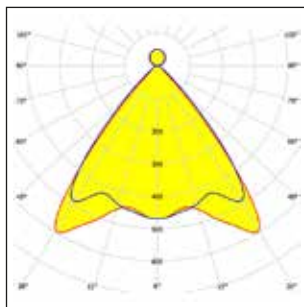
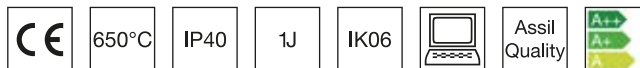
The DALI products of this family can be controlled manually with the technology 3F Easy or even automatically and manually using the 3F Smart Dimming technology (refer to "Light Management" on our website).

### Dimensions



## 3F Sound Lux DI | Black Forest

Code 6013

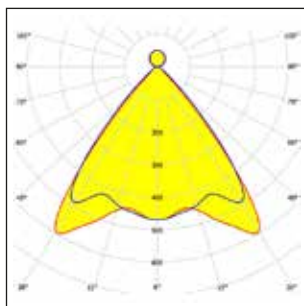
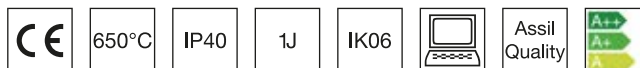
L<3000 cd/m<sup>2</sup> 65°

Direct-indirect distribution.  
Average luminance <3000 cd/m<sup>2</sup> for radial angles >65°.  
Body with a black forest finish.

Code	Item	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions L x A x H
<b>DALI electronic wiring 230V-50/60Hz</b>						
6013 <sup>NEW</sup>	3F Sound Lux 450 RE DI 35+8/930 DALI	47	4981	3000	>90	1780x450x43
6019 <sup>NEW</sup>	3F Sound Lux 900 RE DI 70+16/930 DALI	94	9962	3000	>90	1780x900x43

## 3F Sound Lux DI | Walnut

Code 6017

L<3000 cd/m<sup>2</sup> 65°

Direct-indirect distribution.  
Average luminance <3000 cd/m<sup>2</sup> for radial angles >65°.  
Body with a walnut finish.

Code	Item	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions L x A x H
<b>DALI electronic wiring 230V-50/60Hz</b>						
6017 <sup>NEW</sup>	3F Sound Lux 450 RS DI 35+8/930 DALI	47	4981	3000	>90	1780x450x43
6023 <sup>NEW</sup>	3F Sound Lux 900 RS DI 70+16/930 DALI	94	9962	3000	>90	1780x900x43

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**3F Filippi**

**Web**  
**E-mail**  
**Telephone**  
**Fax**

www.3F-Filippi.com  
export@3f-filippi.it  
+39 051 652 9611  
+39 051 775 884

**Head office and factory**

Via del Savena 28, Z.I. Piastrella  
40065 Pian di Macina, Pianoro (Bologna), Italy  
Tax Code. 01033260371 - VAT no. IT00529461204  
Share Capital € 3,000,000 fully paid up  
Bologna Register of Companies no. 01033260371  
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