



luménear

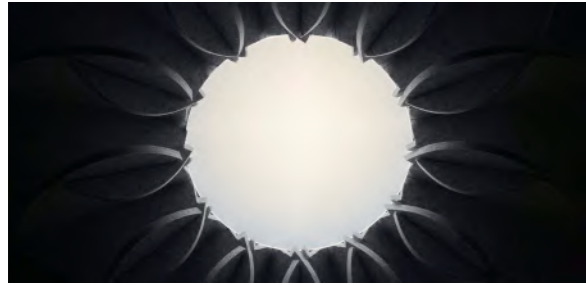
Acoustic Lighting

In any space, sight and sound are key to our well-being. With its range of sound-absorbing design lights, lumenear seamlessly combines both sensory dimensions.

See it, hear it for yourself.

lumenear
Acoustic Lighting

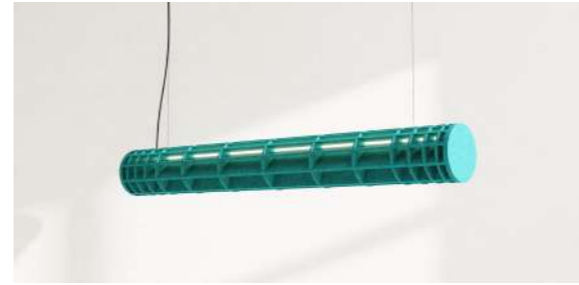
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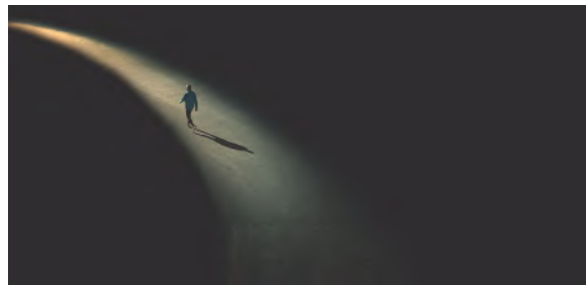
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Crafting comfort with lumēnear

lumēnear's mission is simple yet profound: deliver honest acoustic design lamps that not only enhance the ambiance but also elevate the way we work, connect, and thrive.

We understand the crucial relationship between light and sound in shaping spaces. By seamlessly blending acoustics with lighting, we offer both comfort and productivity.

It's not just about lighting up a room; it's about elevating the entire sensory experience. What sets us apart is our commitment to local production, fair materials, and ethical sourcing. From conception to creation, our lamps are crafted using sustainable materials, ensuring both quality and conscience.

See it, hear it for yourself.



What do you do with a space, or rather: what does a space do to you?

Based in the heart of The Netherlands, lumenear blends years of acoustic expertise with innovative design.

“With lumenear, lighting becomes an art form, seamlessly merging functionality with beauty.”



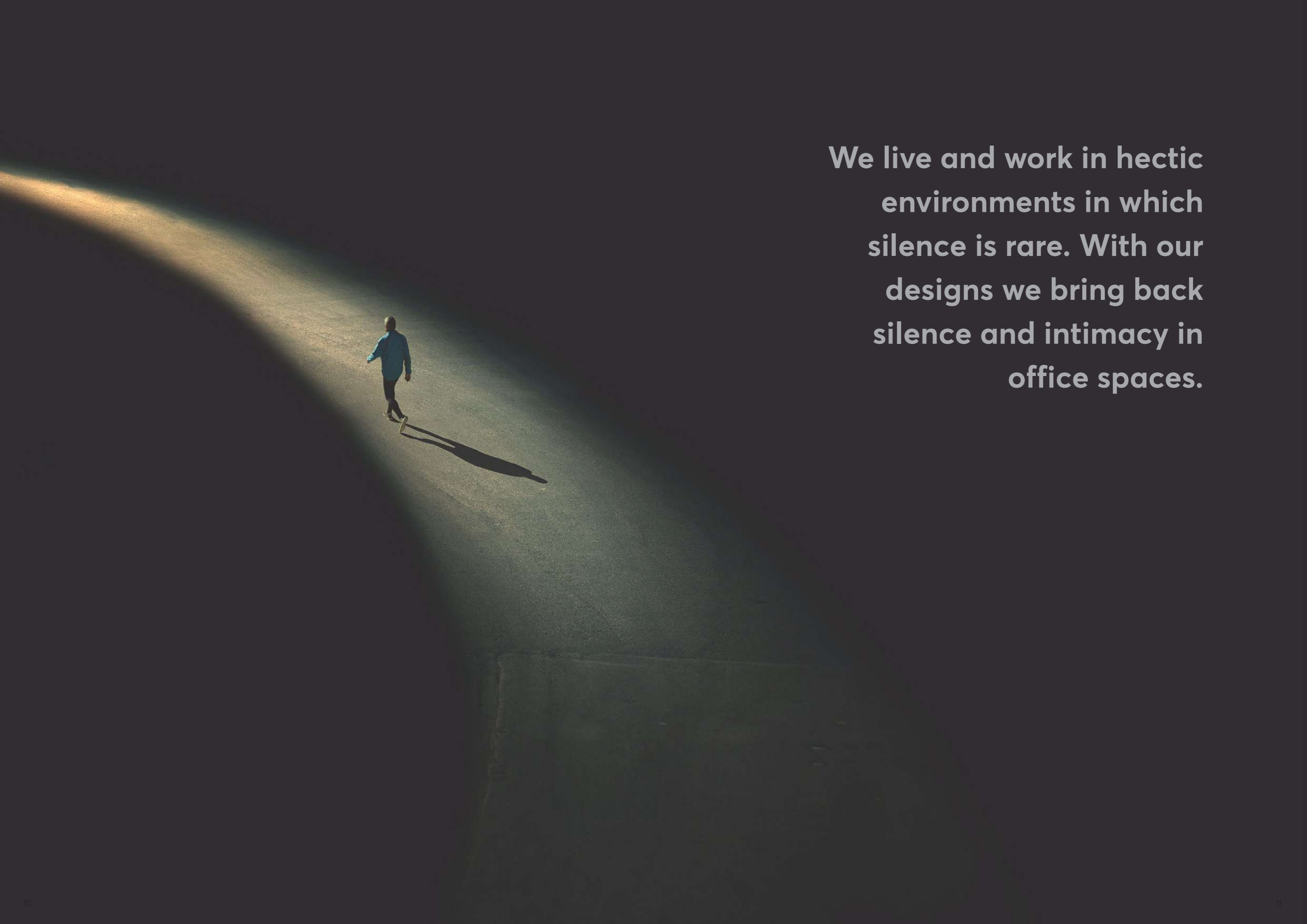
Production

With our in-house skilled team members and our own production facilities, lumenear maintains complete control over every step of the process, from concept to finished product. This integrated approach empowers us to uphold the highest standards of quality, ensuring that each luminaire meets our criteria for excellence.

Design

At lumenear, we illuminate spaces while addressing acoustic challenges with our innovative design-lighting. Using recycled PET Felt, a versatile material that is semi-flexible yet sturdy, we craft captivating designs with a wide color range. Drawing from our expertise in acoustics, we intentionally design complex forms in our lights for optimal sound absorption. Our meticulously crafted lamps, assembled minimizing glue or screws, effectively mitigate noise in diverse settings like offices, workspaces, and public venues.

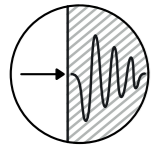
Craftsmanship



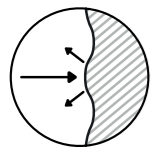
We live and work in hectic environments in which silence is rare. With our designs we bring back silence and intimacy in office spaces.

Principles of acoustic

At lumeneer, we harness sound's behaviour to optimize acoustics. By strategically applying absorption and diffusion, we shape environments for enhanced sound quality, even amidst uncontrollable noise sources like conversations or buzzing computers. The two most important aspects of sound we use to achieve this are absorption and diffusion.

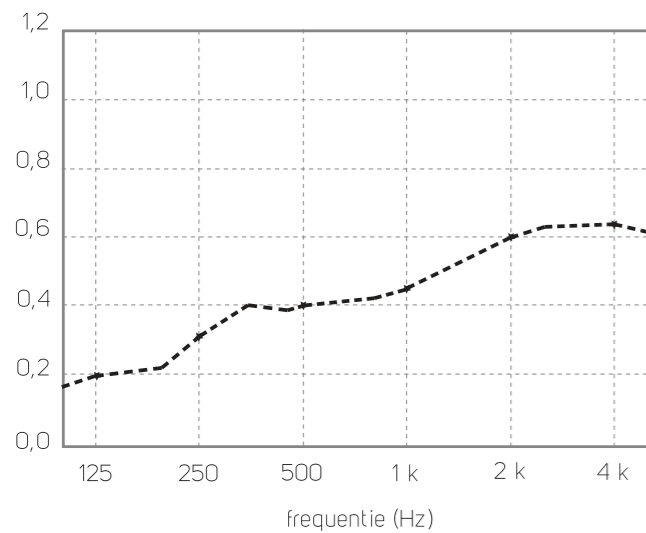


Absorption is the degree of energy removed from the sound wave as the wave passes through a given thickness of material.



Diffusion is the method of spreading out sound energy. The shape of an object can deform the structure of sound when they come into contact.

Absorption is the usual way to determine acoustic value. How much sound you 'catch' is expressed into acoustic value (aw). Soft and 'open' materials such as PET Felt catch a lot of sound and have a high aw.



Acoustic properties:
 Aw (ISO 11654) = 0,45 (H)
 SAA (ASTM-C423) = 0,45



Tone Spectrum

Sound frequency is dictated by its wavelength, measured in Hertz (Hz), representing the number of vibrations per second. With the audible range spanning from 20 to 20,000 Hz, higher frequencies correspond to higher tones.



High tones



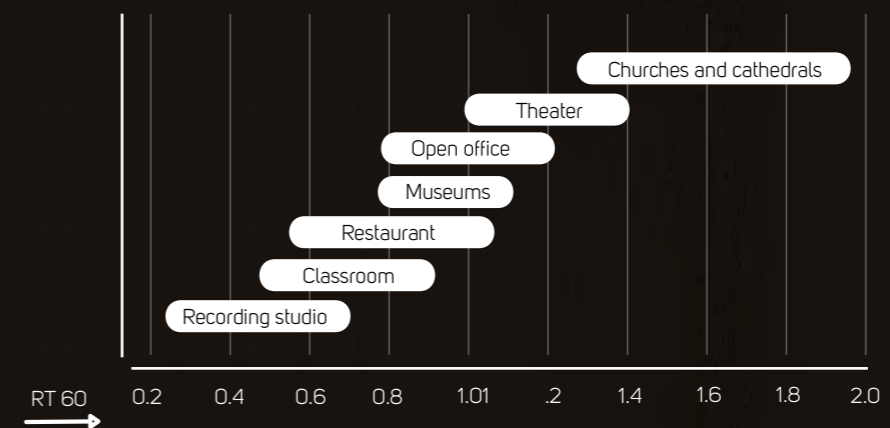
Mid tones



Low tones

Reverberation Time

Reverberation Time, measured in seconds, signifies how long it takes for sound to decay 60 dB. At lumeneer, we optimize speech clarity and intelligibility by adjusting reverberation times using tailored absorptive materials in our acoustic lighting designs. Recommended times vary by space and function:

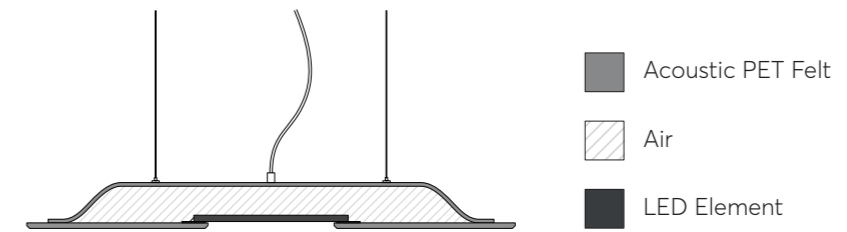


How lumenear's solutions tackle your acoustic dilemmas through thoughtful design, strategic placement, and personalized product quantities tailored to your preferences.



The Impact of Design

Discover how lumenear's lamps truly make an acoustic difference. With their innovative design they not only provide illumination but also transform the acoustics of any space. Through strategic placement, they optimize sound absorption, making every environment more comfortable and enjoyable.



The Power of Placement

Strategic placement is key for maximizing the effectiveness of absorbing materials. By situating them in areas prone to sound disturbances, like noisy environments, we effectively address the issue at its core.

Ceiling placement is especially effective, leveraging sound propagation to efficiently dampen noise. This highlights the clever synergy between lighting and acoustics, offering a smart solution that enhances both ambiance and comfort.

Hear it

Solving acoustics with lumēnear

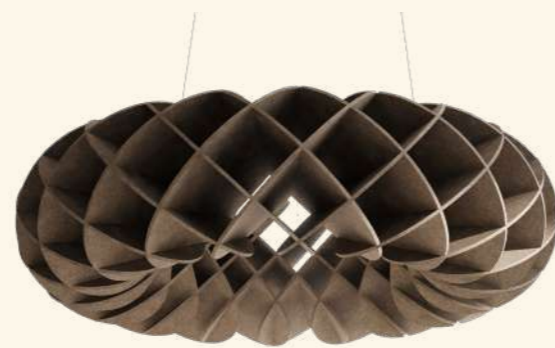
The right amount of absorbing material, placed in the right spots, determines whether the desired outcome is achieved.

lumēnear offers models both with and without lighting options to ensure the desired end result. This allows us to provide high-quality lighting where needed and to add extra acoustic models to address acoustic challenges—without compromising on design or incurring unnecessary costs..

See it, hear it for yourself.



Halo Acoustic Light



Halo Acoustic Baffle

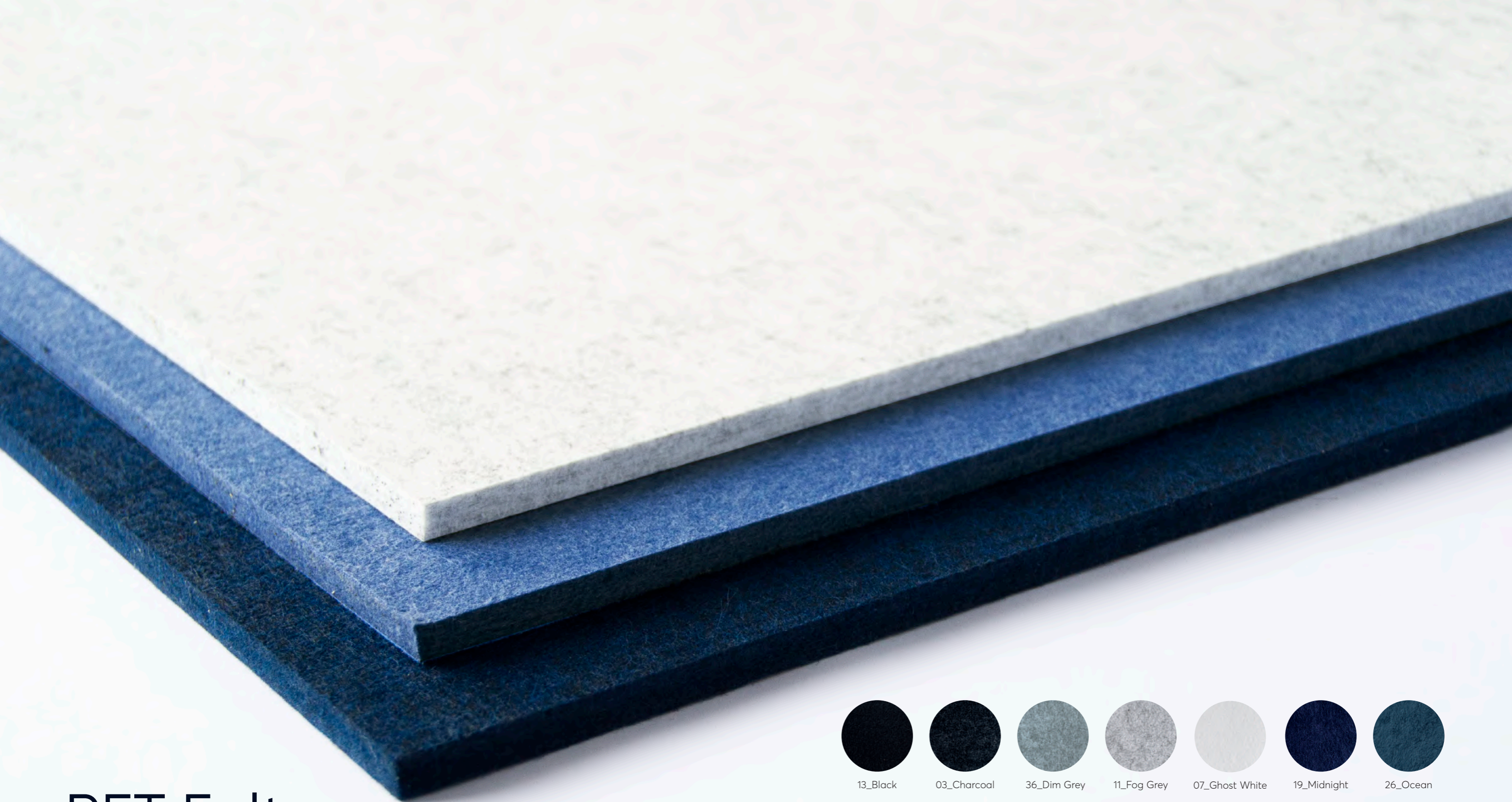


Float Acoustic Light



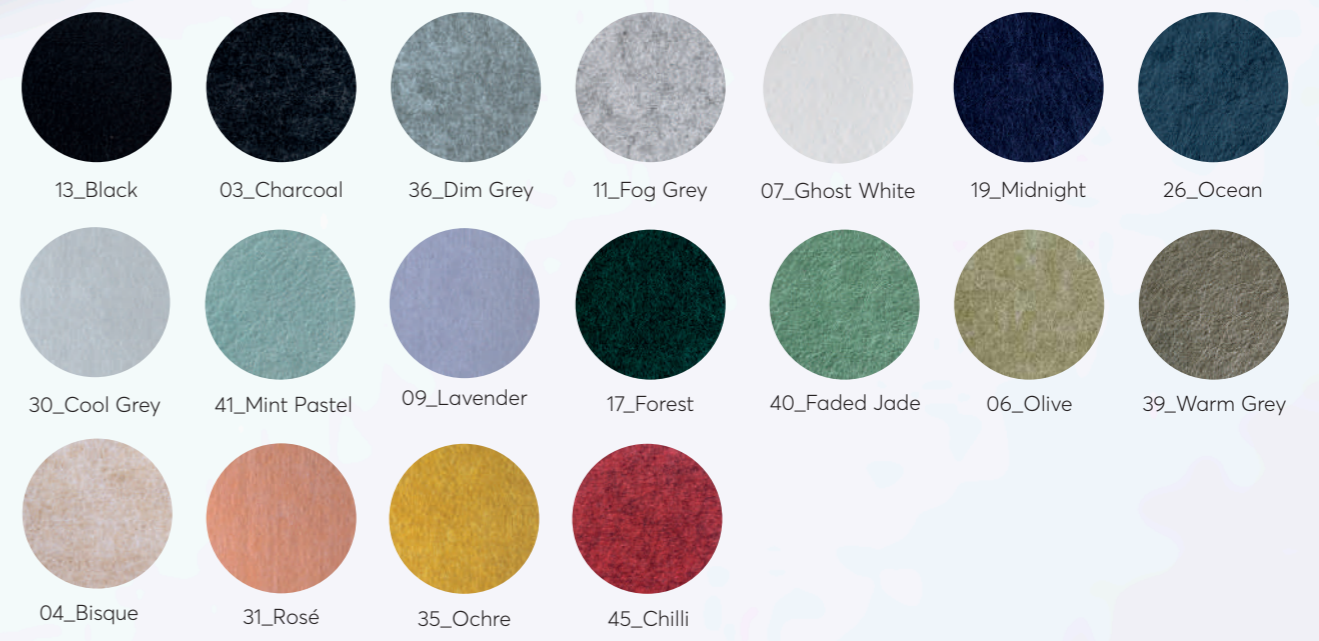
Float Acoustic Baffle

**With good acoustics,
we simply perform
and live better.**



PET Felt

Made partly from post-consumer recycled PET, PET Felt is a remarkable material known for its ability to enhance aesthetics and acoustics. Its soft feel and wide range of colors add elegance to any space, while effectively absorbing sound. PET Felt is fire-retardant, durable, and water-repellent. Unlike traditional sound-absorbent materials, PET Felt ensures long-lasting performance.





**The beauty of
recycled materials!**

We use materials that have minimal impact on the environment, prioritizing those that are both recycled and recyclable, such as our main acoustic material, PET Felt. We are committed to reducing waste and believe it is wasteful to discard something that remains functional. This philosophy is an integral part of our design and production process. We aim for maximum sustainability in our designs, avoiding the use of glue wherever possible. Our collection is crafted based on a pressure fit principle, meaning the PET Felt itself also forms the structure of the luminaire.

PET Felt offers the ideal solution for today's demand for sustainable materials without compromising flexibility, design, or color. It is both recycled and recyclable. We also use residual material to create packaging and smaller parts for our luminaires, keeping our waste stream to an absolute minimum and helping reduce overall waste.



Sustainability



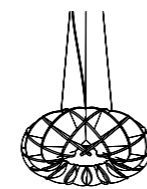
Collection

At lumeneer, we believe that light and acoustics should go hand in hand. We offer a diverse collection of designs to provide the right solution for your space. In addition to our lighting models, many of our designs are also available in acoustic variations. In the upcoming pages, we would like to introduce you to this broad collection.

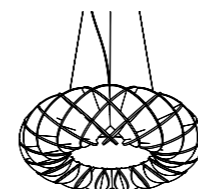
Halo

Halo is a durable fixture made of loose PET Felt slats. By inserting these transversely into each other, a characteristic and sturdy independent ring-shaped construction is created. In addition to this smart construction, Halo's design is very effective at "catching" reverberation from the room through its large felt surfaces.

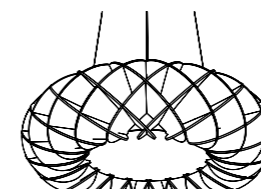
The integrated LED panel, with high light intensity, shines from above into the Halo. A blender at the bottom softens this light, providing a wide down-light spread. Meanwhile, some light remains between the LED panel and the diffuser, allowing Halo to also offer pleasing indirect light through its waffle structure. Halo is available in three sizes and various colors.



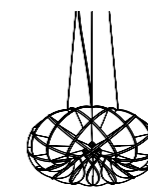
Halo light 700



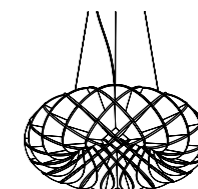
Halo light 1000



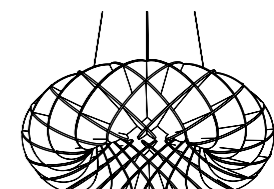
Halo light 1400



Halo acoustic 700



Halo acoustic 1000







Halo acoustic 1400





Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap

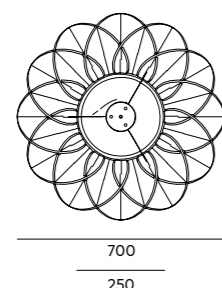
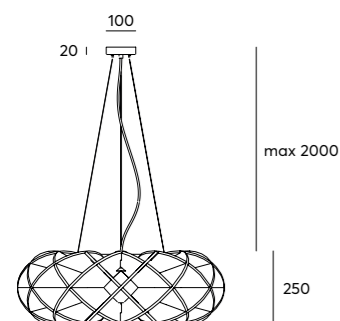
Lighting properties:

 Integrated LED 17W 1850lm	 Dimmable Trailing edge (RC) Dali
 2700 3000K 4000K TW 2700-6500K	 IP20

Acoustic properties:

 1,64 m ² of acoustic absorption material of aw 0,45
 Diffusion due to the 'waffle' design

Measurements:



Total weight gross | net: 4,8kg | 3,3kg
Parcel size: 800x800x400mm



Colors:

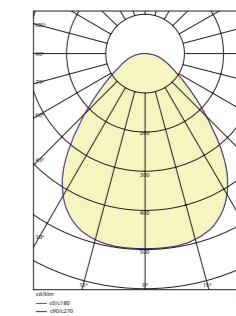


Light source specifications:



LED power:	17W
Connection voltage:	220-240V AC
Luminous Flux:	1850lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	109lm/W
Optics Beam of light:	Acrylic Opal Prism 70% LT
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra >80
UGR:	<22
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

Halo is made to catch sound from the environment. Due to its open waffle structure, soundwaves will enter the acoustic body and are almost completely absorbed by the repeating acoustic PET Felt slats.

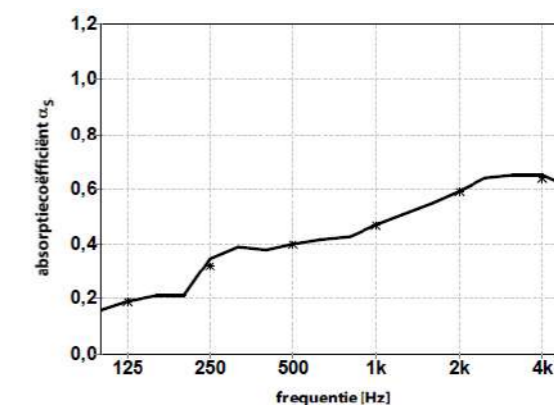
The LED element and acrylic diffuser, will reflect the sound

Calculated acoustic surface area: 1,64 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room







	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64





Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap

Lighting properties:

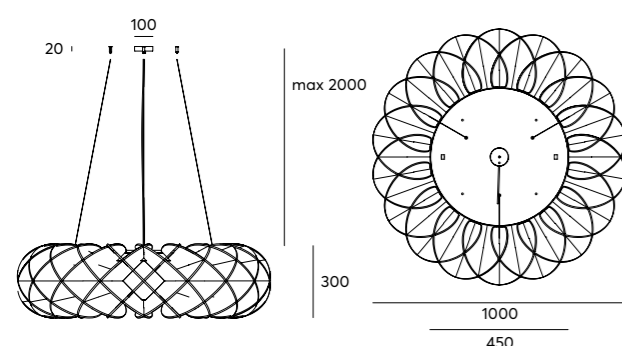
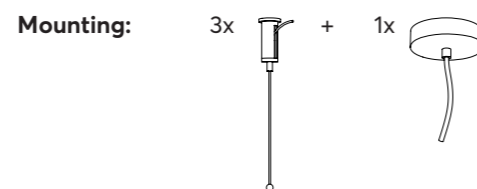
 Integrated LED 36W 3560lm	 Dimmable Trailing edge (RC) Dali
 CCT 2700 3000K 4000K TW 2700-6500K	 IP20

Acoustic properties:

 3,3 m² of acoustic absorption material of aw 0,45
 Diffusion due to the 'waffle' design

Measurements:

Total weight gross | net: 11kg | 9,5kg
Parcel size: 1000x1000x400mm



Colors:

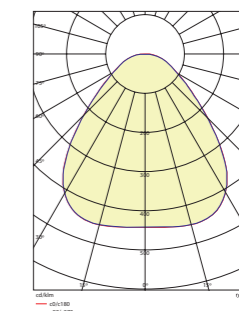


Light source specifications:



LED power:	36W
Connection voltage:	220-240V AC
Luminous Flux:	3560lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control/Dimmable:	Trailing Edge Dali
Power factor:	99lm/W
Optics Beam of light:	Acrylic Opal Prism 70% LT
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra >80
UGR:	<22
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

Halo is made to catch sound from the environment. Due to its open waffle structure, soundwaves will enter the acoustic body and are almost completely absorbed by the repeating acoustic PET Felt slats.

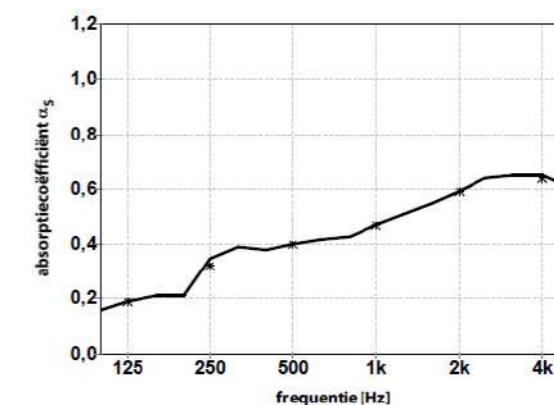
The LED element and acrylic diffuser, will reflect the sound

Calculated acoustic surface area: 3,3 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64




Halo light 1400



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap

Lighting properties:

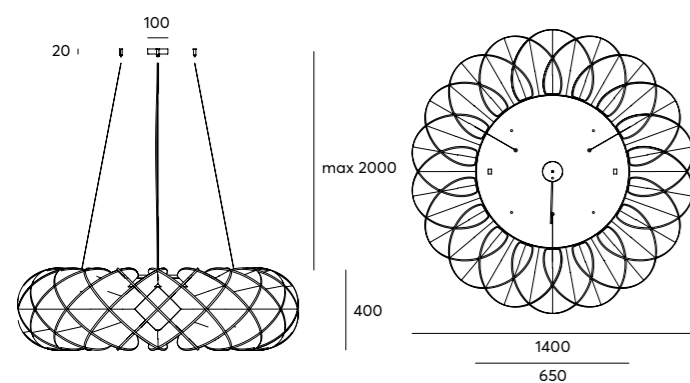
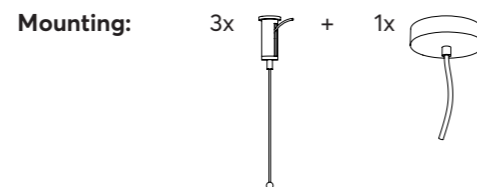
 Integrated LED 64W 6870lm	 Dimmable Dali
 CCT 3000K 4000K	 IP20

Acoustic properties:

 6,28 m ² of acoustic absorption material of aw 0,45
 Diffusion due to the 'waffle' design

Measurements:

Total weight gross | net: 22,8kg | 19,6kg
Parcel size: 1400x1400x400mm



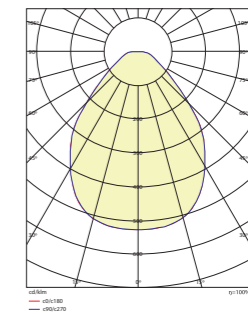
Colors:



Light source specifications:

LED power:	64W
Connection voltage:	220-240V AC
Luminous Flux:	6870lm
Frequency:	50/60Hz
Driver:	Included Integrated
Control Dimmable:	Dali
Power factor:	107lm/W
Optics Beam of light:	Acrylic Opal Prism 70% LT
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<19
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

Halo is made to catch sound from the environment. Due to its open waffle structure, soundwaves will enter the acoustic body and are almost completely absorbed by the repeating acoustic PET Felt slats.

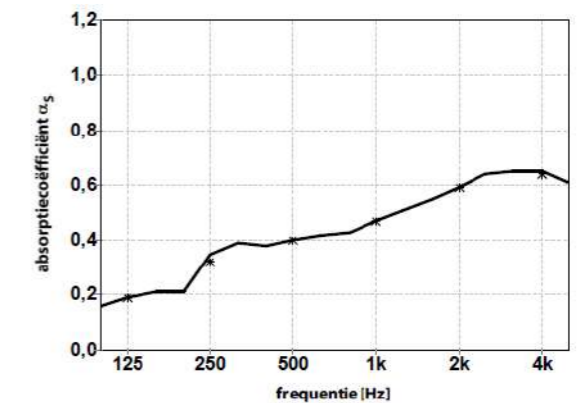
The LED element and acrylic diffuser, will reflect the sound

Calculated acoustic surface area: 6,28 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room




	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64




Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands


Fixture:
 3 black metal wires with adjustable griplock

Acoustic properties:

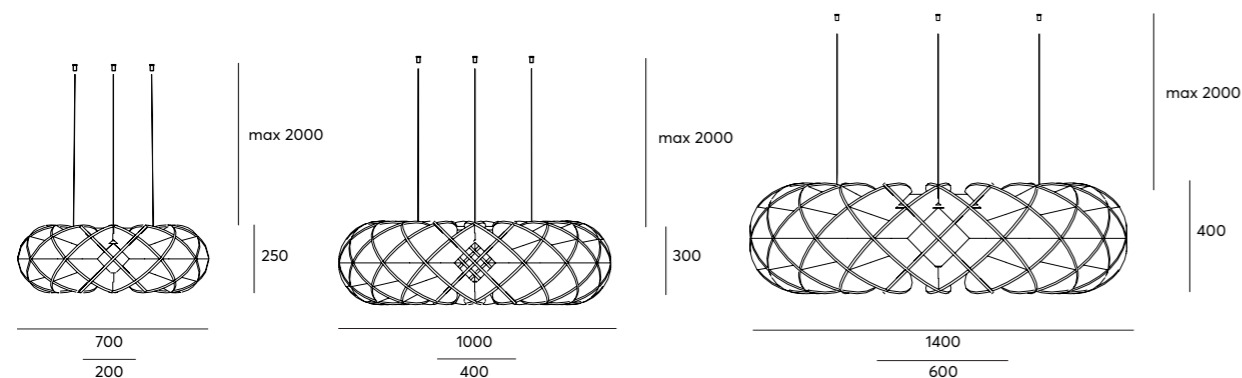
 High acoustic absorption value of a_w 0,45

 Diffusion due to the 'waffle' design

Total weight gross | net: 2,7 | 1,3kg / 6,3 | 5,0kg / 12,4 | 10,5kg
 Parcel size: 800x800x400mm | 1000x1000x400mm | 1400x1400x400mm

Mounting: 3x 

Measurements:



Colors:



Acoustic specifications:

The acoustic design principle.

Halo is made to catch sound from the environment. Due to its open waffle structure, soundwaves will enter the acoustic body and are almost completely absorbed by the repeating acoustic PET Felt slats.

The LED element and acrylic diffuser, will reflect the sound

Halo 700 Calculated acoustic surface area: 1,64 m²

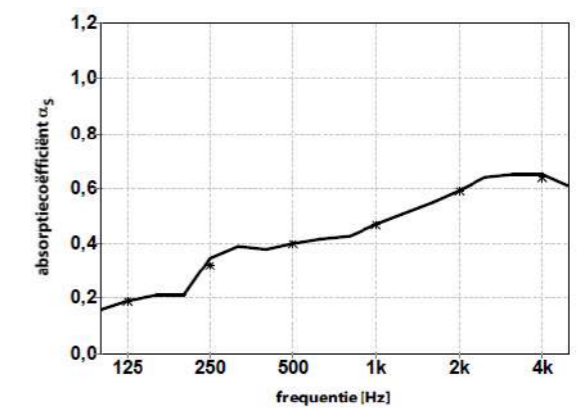
Halo 1000 Calculated acoustic surface area: 3,3 m²

Halo 1400 Calculated acoustic surface area: 6,28 m²

a_w (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



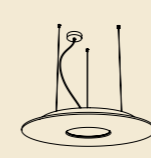
	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



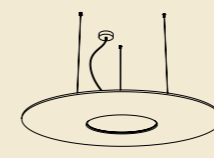
Float

Float light has the best of both worlds. A high-quality acoustic solution due to its shape, surface, and application. In addition, Float Light with its high-quality LED panel is suitable for both mood and work lighting. The downlight LED panel illuminates the workplace while the acoustic felt absorbs sound and improves the acoustics.

Next to a panel downlight we also offer Float with a ringlight or an uplight. Float is available in two sizes and can be combined with acoustic islands without lighting. This makes Float a versatile ceiling panel.

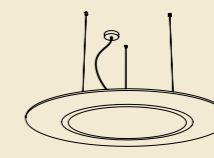
Float
downlight 800



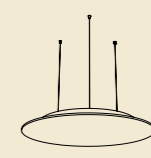
Float
downlight 1200



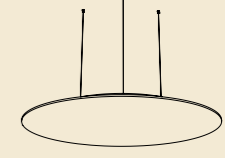
Float
ringlight 800



Float
ringlight 1200

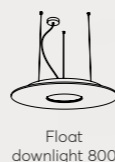


Float
acoustic 800



Float
acoustic 1200





Float downlight 800





Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap and Charcoal PET Felt hood (standard)

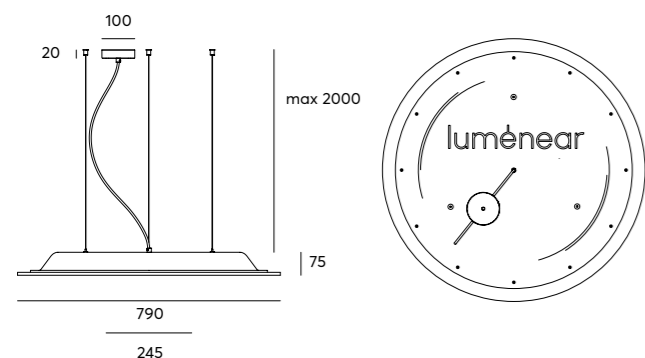
Lighting properties:

-  Integrated LED
17W | 1870lm
-  Dimmable
Trailing edge (RC) | Dali
-  CCT
2700 | 3000K | 4000K
TW 2700-6500K
-  IP20

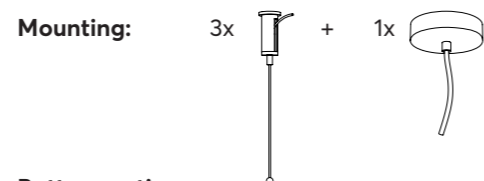
Acoustic properties:

-  High absorption
value of aw 0,55
-  Diffusion

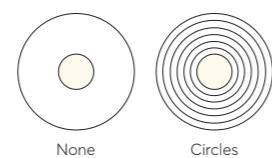
Measurements:



Total weight gross | net: 3,2 | 2,7kg
Parcel size: 800x800x100mm



Pattern options:



Colors:

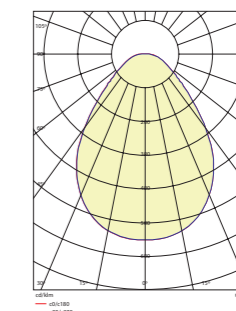


Light source specifications:



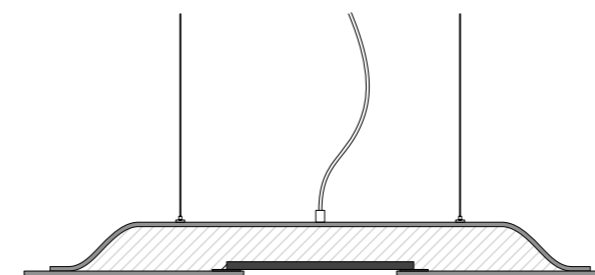
LED power:	17W
Connection voltage:	220-240V AC
Luminous Flux:	1870lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	110lm/W
Optics:	Acrylic Opal Prism
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra>80
UGR:	<25
Operating temperature:	-20 ~ +45



Photometrics: Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

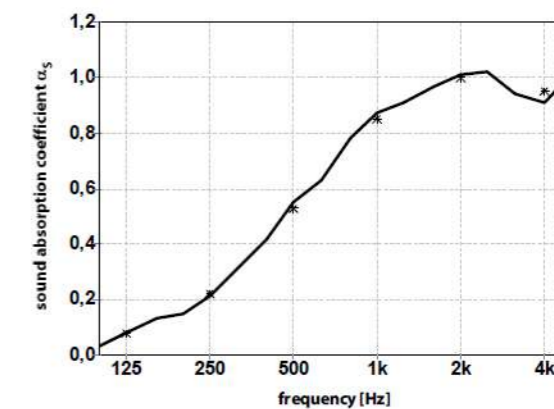


-  Acoustic PET Felt
-  Air
-  LED Element

The product is designed to have a double layer sound absorbing PET Felt with 60 mm. of air cavity in between. Due to the layered effect, soundwaves are optimally absorbed by the design.

The LED element will reflect the soundwaves

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003.



	0,03	0,15	0,42	0,78	0,97	0,94
1/3 oct.	0,08	0,21	0,55	0,87	1,01	0,91
	0,13	0,31	0,63	0,91	1,02	1,01
1/1 oct.	0,08	0,22	0,53	0,85	1,00	0,95

aw (ISO 11654) = 0,55(MH)

SAA (ASTM - C423) = 0,65





Float downlight 1200





Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap and Charcoal PET Felt hood (standard)

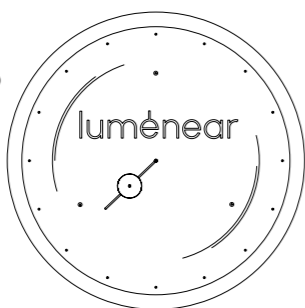
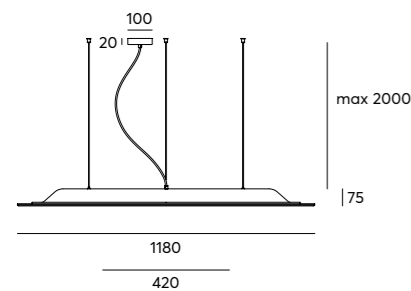
Lighting properties:

 Integrated LED 33W 3620lm	 Dimmable Trailing edge (RC) Dali
 2700 3000K 4000K TW 2700-6500K	 IP20

Acoustic properties:

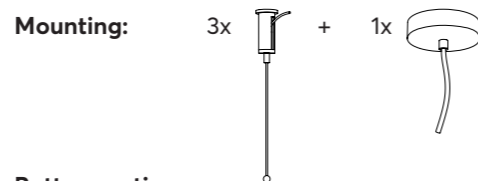
 High absorption value of α_w 0,55
 Diffusion

Measurements:

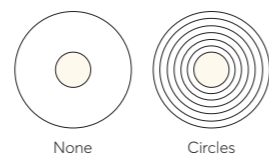


Total weight gross | net: 11,2 | 9,1kg

Parcel size: 1200x1200x100mm




Pattern options:



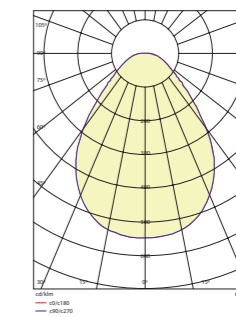
Colors:



Light source specifications:

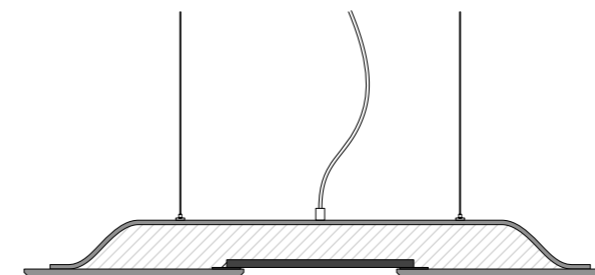
	LED power:	33W
	Connection voltage:	220-240V AC
	Luminous Flux:	3620lm
	Frequency:	47-63Hz
	Driver:	Included Integrated
	Control Dimmable:	Trailing Edge Dali
	Power factor:	110lm/W
	Optics:	Acrylic Opal Prism
	CCT Color temperature:	2700K 3000K 4000K TW2700-6500
	CRI:	Ra>80
	UGR:	<22
	Operating temperature:	-20 ~ +45




Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

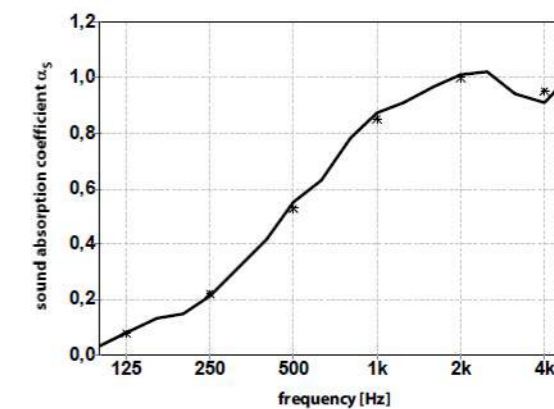


-  Acoustic PET Felt
-  Air
-  LED Element

The product is designed to have a double layer sound absorbing PET Felt with 60 mm. of air cavity in between. Due to the layered effect, soundwaves are optimally absorbed by the design.

The LED element will reflect the soundwaves

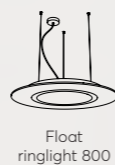
Measurement of sound absorption in a reverberation room
 According to ISO 354:2003.



	0,03	0,15	0,42	0,78	0,97	0,94
1/3 oct.	0,08	0,21	0,55	0,87	1,01	0,91
	0,13	0,31	0,63	0,91	1,02	1,01
1/1 oct.	0,08	0,22	0,53	0,85	1,00	0,95

α_w (ISO 11654) = 0,55(MH)

SAA (ASTM - C423) = 0,65



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap and Charcoal PET Felt hood (standard)

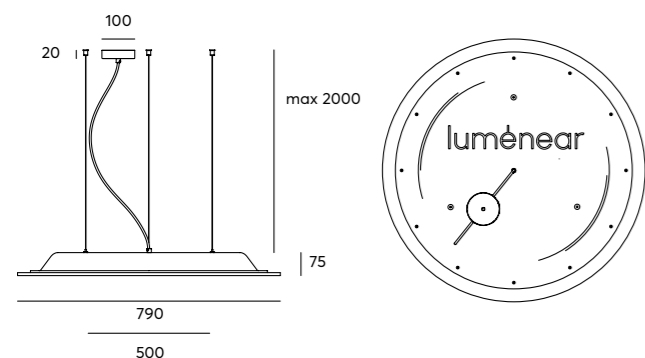
Lighting properties:

Integrated LED
 20W | 2200lm
 Dimmable
 Trailing edge (RC) | Dali
 CCT 3000K | 4000K
 IP20

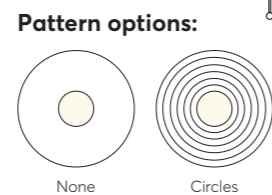
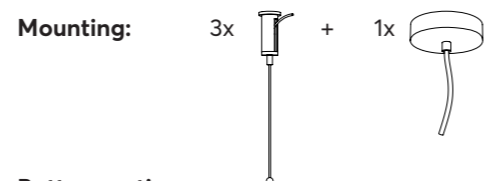
Acoustic properties:

High absorption
 value of aw 0,55
 Diffusion

Measurements:



Total weight gross | net: 3,4 | 2,9kg
Parcel size: 800x800x100mm



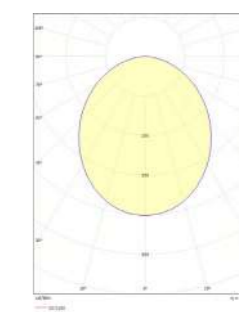
Colors:



Light source specifications:

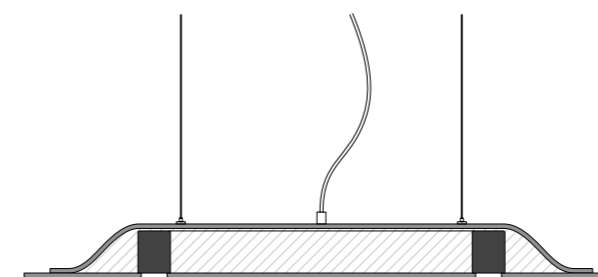
LED power:	30W
Connection voltage:	220-240V AC
Luminous Flux:	3050lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	102lm/W
Optics:	Acrylic Opal Prism
CCT Color temperature:	3000K 4000K
CR:	Ra>80
UGR:	<22
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

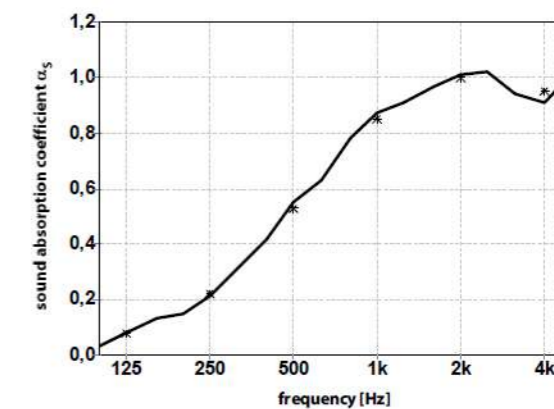


- Acoustic PET Felt
- Air
- LED Element

The product is designed to have a double layer sound absorbing PET Felt with 60 mm. of air cavity in between. Due to the layered effect, soundwaves are optimally absorbed by the design.

The LED element will reflect the soundwaves

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003.



	0,03	0,15	0,42	0,78	0,97	0,94
1/3 oct.	0,08	0,21	0,55	0,87	1,01	0,91
	0,13	0,31	0,63	0,91	1,02	1,01
1/1 oct.	0,08	0,22	0,53	0,85	1,00	0,95

aw (ISO 11654) = 0,55(MH)

SAA (ASTM - C423) = 0,65

Float ringlight 1200



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap and Charcoal PET Felt hood (standard)

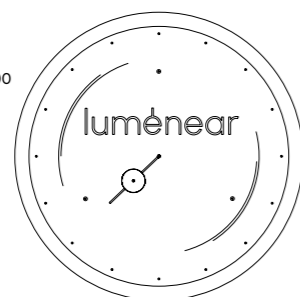
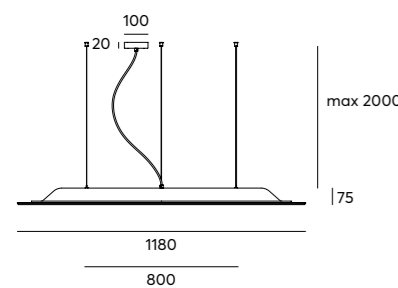
Lighting properties:

- Integrated LED
35W | 3950lm
- Dimmable
Trailing edge (RC) | Dali
- CCT 3000K | 4000K
- IP20

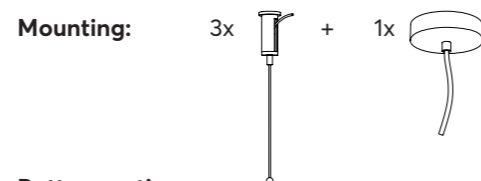
Acoustic properties:

- High absorption
value of aw 0,55
- Diffusion

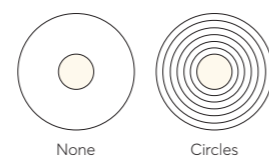
Measurements:



Total weight gross | net: 11,2 | 9,1kg
Parcel size: 1200x1200x100mm



Pattern options:



Colors:

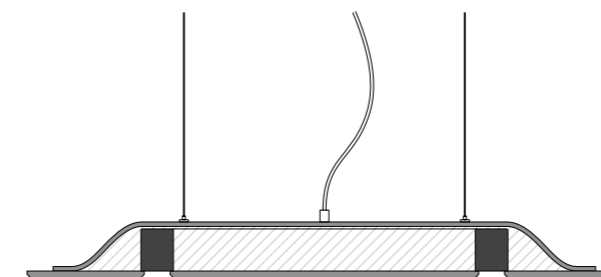


Light source specifications:

LED power:	35W
Connection voltage:	220-240V AC
Luminous Flux:	3950lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	113lm/W
Optics:	Acrylic Opal Prism
CCT Color temperature:	3000K 4000K
CRI:	Ra>90
UGR:	<22
Operating temperature:	-20 ~ +45

Acoustic specifications:

The acoustic design principle.

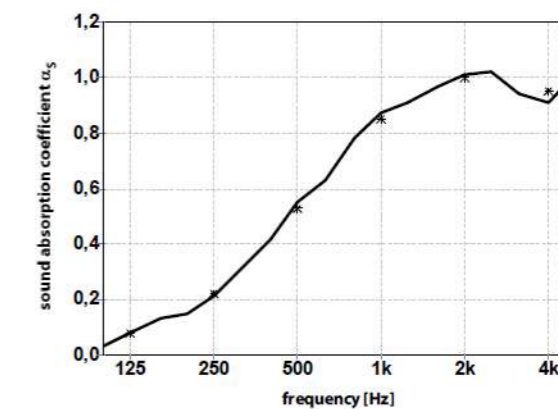


- Acoustic PET Felt
- Air
- LED Element

The product is designed to have a double layer sound absorbing PET Felt with 60 mm. of air cavity in between. Due to the layered effect, soundwaves are optimally absorbed by the design.

The LED element will reflect the soundwaves

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



	0,03	0,15	0,42	0,78	0,97	0,94
1/3 oct.	0,08	0,21	0,55	0,87	1,01	0,91
	0,13	0,31	0,63	0,91	1,02	1,01
1/1 oct.	0,08	0,22	0,53	0,85	1,00	0,95

aw (ISO 11654) = 0,55(MH)

SAA (ASTM - C423) = 0,65

Float Oval Downlight 1200



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 4 black metal wires with adjustable griplock
 Black ceiling cap and Charcoal PET Felt hood (standard)

Lighting properties:

Integrated LED
 9W | 1160lm

Dimmable
 Trailing edge (RC) | Dali

CCT 3000K | 4000K

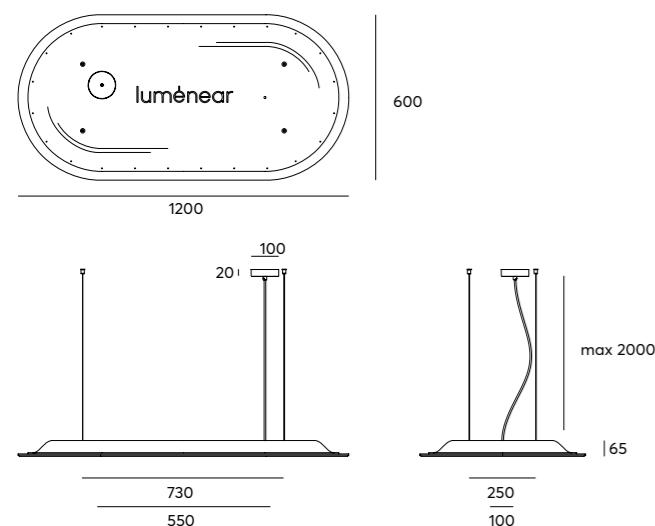
IP20

Acoustic properties:

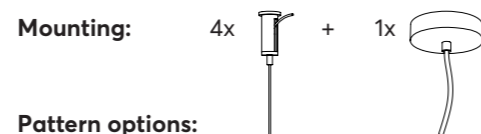
High absorption
 value of α_w 0,55

Diffusion

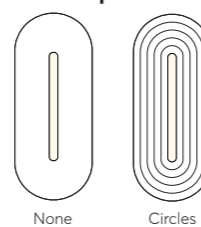
Measurements:



Total weight gross | net: 11,2 | 9,1kg
Parcel size: 1200x600x100mm



Pattern options:



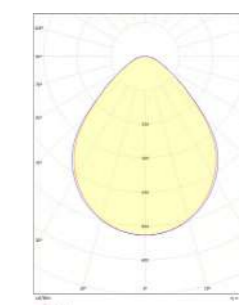
Colors:



Light source specifications:

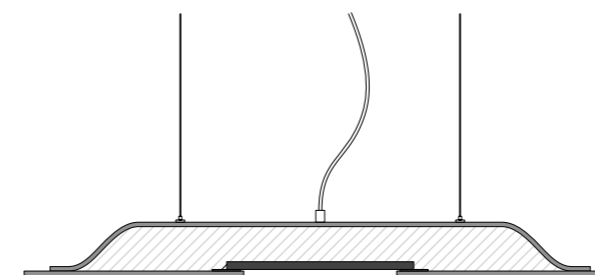
LED power:	9W
Connection voltage:	220-240V AC
Luminous Flux:	1160lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	129lm/W
Optics:	Acrylic Opal Prism
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<19
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

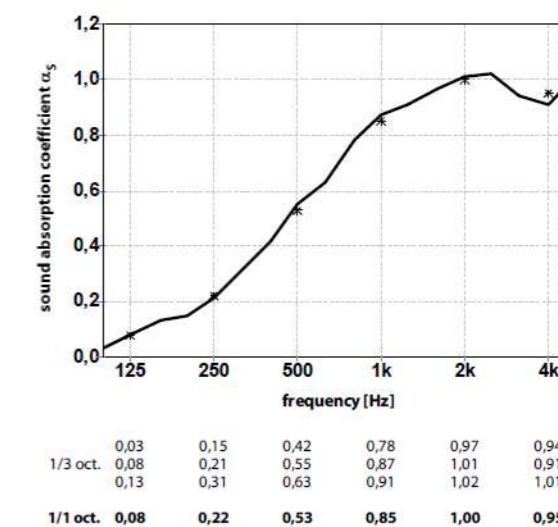


Acoustic PET Felt
 Air
 LED Element

The product is designed to have a double layer sound absorbing PET Felt with 60 mm. of air cavity in between. Due to the layered effect, soundwaves are optimally absorbed by the design.

The LED element will reflect the soundwaves

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



α_w (ISO 11654) = 0,55(MH)

SAA (ASTM - C423) = 0,65





Float Oval Downlight 2000





Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 4 black metal wires with adjustable griplock
 Black ceiling cap and Charcoal PET Felt hood (standard)

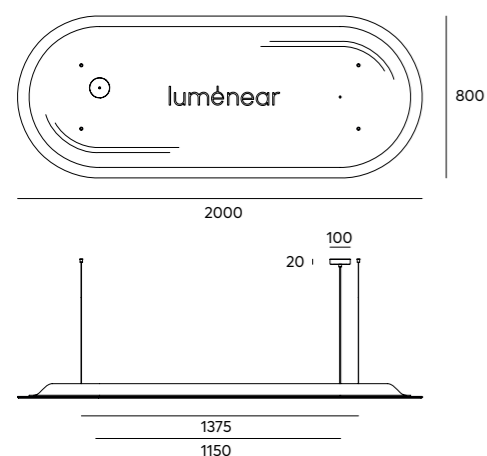
Lighting properties:

 Integrated LED 18W 2310lm	 Dimmable Trailing edge (RC) Dali
 CCT 3000K 4000K	 IP20

Acoustic properties:

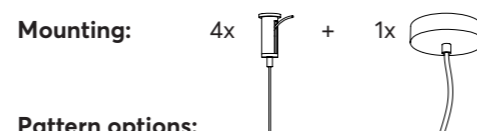
 High absorption value of α_w 0,55
 Diffusion

Measurements:

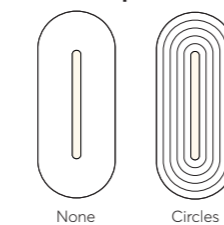


Total weight gross | net: 11,2 | 9,1kg

Parcel size: 2000x800x100mm



Pattern options:



Colors:

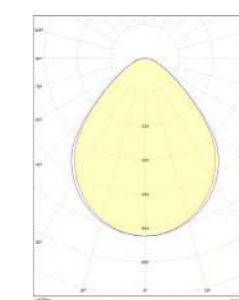


Light source specifications:

LED power:	18W
Connection voltage:	220-240V AC
Luminous Flux:	2310lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	128lm/W
Optics:	Acrylic Opal Prism
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<19
Operating temperature:	-20 ~ +45

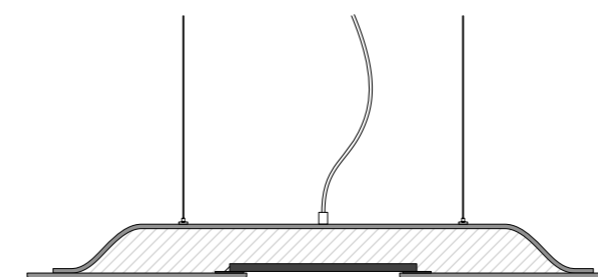
Photometrics:




Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

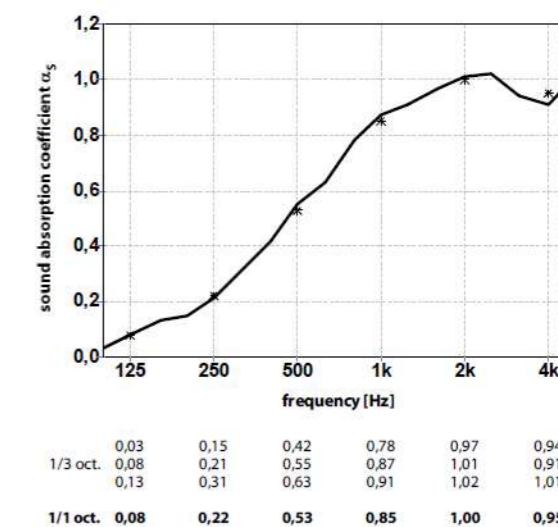


 Acoustic PET Felt
 Air
 LED Element

The product is designed to have a double layer sound absorbing PET Felt with 60 mm. of air cavity in between. Due to the layered effect, soundwaves are optimally absorbed by the design.

The LED element will reflect the soundwaves

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



α_w (ISO 11654) = 0,55(MH)

SAA (ASTM - C423) = 0,65

Float uplight **add-on**



Lighting properties:



Integrated LED
17W | 1870lm



Dimmable
Trailing edge (RC) | Dali



2700 | 3000K | 4000K
TW 2700-6500K



IP20

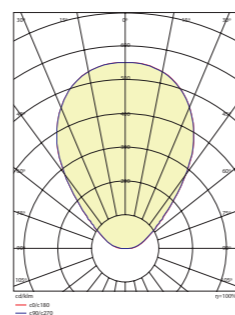
Light source specifications:



LED power:	17W
Connection voltage:	220-240V AC
Luminous Flux:	1870lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	110lm/W
Optics:	Acrylic Opal Prism
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra>80
UGR:	<25
Operating temperature:	-20 ~ +45

Photometrics:

Lumen intensity distribution



Combinations:



Float 800/1200 Downlight

Float 800/1200 Ringlight

Float 800/1200 Acoustic

With Uplight

Float Oval uplight **add-on**



Lighting properties:



Integrated LED
9W | 1160lm



Dimmable
Trailing edge (RC) | Dali



3000K | 4000K



IP20

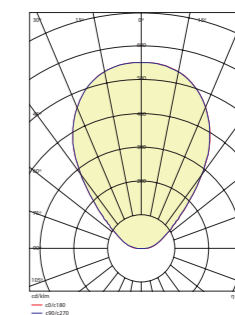
Light source specifications:



LED power:	9W
Connection voltage:	220-240V AC
Luminous Flux:	1160lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	129lm/W
Optics:	Acrylic Opal Prism
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<19
Operating temperature:	-20 ~ +45

Photometrics:

Lumen intensity distribution



Combinations:



Float Oval Downlight 1200/2000

Float Oval Acoustic 1200/2000

With Uplight



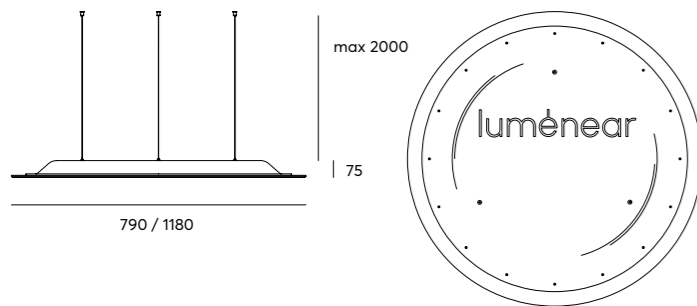
Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 3 black metal wires with adjustable griplock
 Charcoal PET Felt hood (standard)

Acoustic properties:

- High absorption value of α_w 0,9
- Diffusion

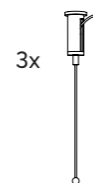
Measurements:



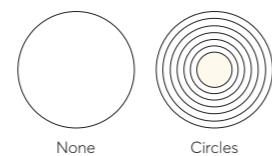
Total weight gross | net: 2,4 | 1,6
 4,9 | 4,1kg
Parcel size: 800x800x100mm
 1200x1200x100mm

Parcel size:

Mounting:



Pattern options:

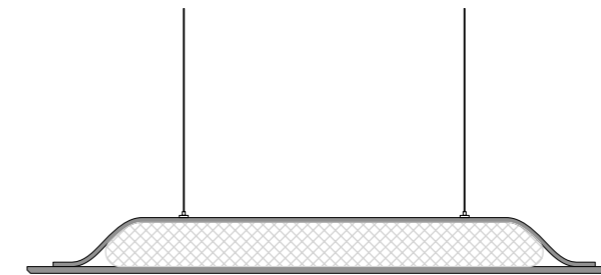


Colors:



Acoustic specifications:

The acoustic design principle.



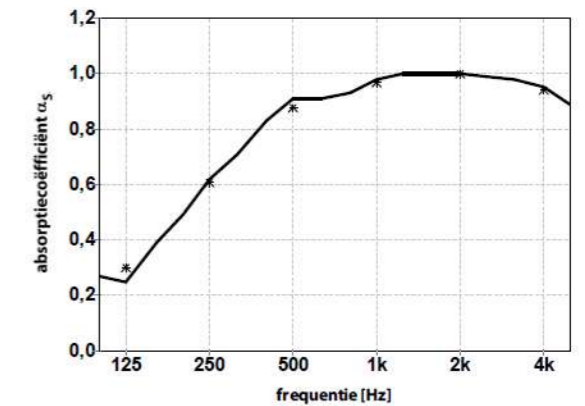
- Acoustic PET Felt
- Acoustic wool

The product is designed to have a double layer Sound absorbing PET Felt with in addition 40mm of acoustic wool in between.

Due to the sandwich of acoustic materials, the soundwaves are optimally absorbed by the design.

Because float is hanging free from the ceiling, the soundwaves that are being reflected from the ceiling will also enter the acoustic baffle from the top to absorb both ways.

Measurement of sound absorption in a reverberation room According to ISO 354:2003.



	125	250	500	1k	2k	4k
1/3 oct.	0,27 0,25 0,39	0,49 0,62 0,71	0,83 0,91 0,91	0,93 0,98 1,00	1,00 1,00 0,99	0,98 0,95 0,89
1/1 oct.	0,30	0,61	0,88	0,97	1,00	0,94

aw (ISO 11654) = 0,90

SAA (ASTM - C423) = 0,86



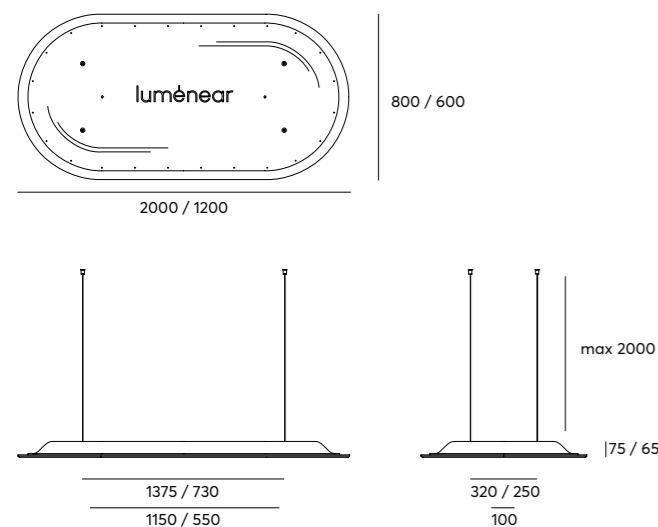
Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 3 black metal wires with adjustable griplock
 Charcoal PET Felt hood (standard)

Acoustic properties:

- High absorption value of aw 0,9
- Diffusion

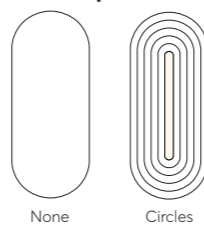
Measurements:



Total weight gross | net: 2,4 | 1,6
 4,9 | 4,1kg
Parcel size: 800x800x100mm
 1200x1200x100mm

Mounting: 4x

Pattern options:

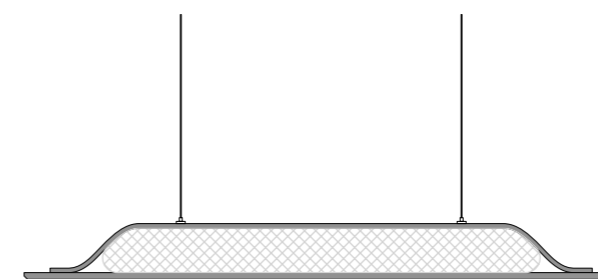


Colors:



Acoustic specifications:

The acoustic design principle.



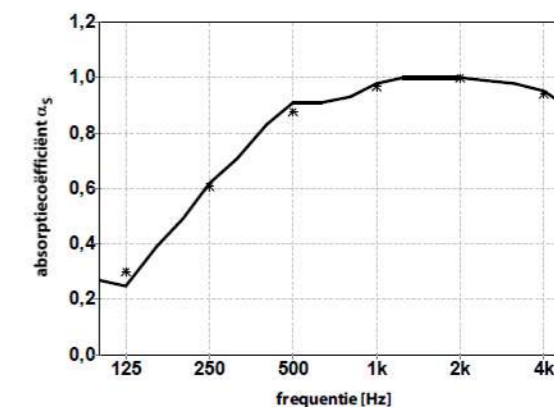
- Acoustic PET Felt
- Acoustic wool

The product is designed to have a double layer Sound absorbing PET Felt with in addition 40mm of acoustic wool in between.

Due to the sandwich of acoustic materials, the soundwaves are optimally absorbed by the design.

Because float is hanging free from the ceiling, the soundwaves that are being reflected from the ceiling will also enter the acoustic baffle from the top to absorb both ways.

Measurement of sound absorption in a reverberation room According to ISO 354:2003.



	125	250	500	1k	2k	4k
1/3 oct.	0,27	0,49	0,83	0,93	1,00	0,98
	0,25	0,62	0,91	0,98	1,00	0,95
	0,39	0,71	0,91	1,00	0,99	0,89
1/1 oct.	0,30	0,61	0,88	0,97	1,00	0,94

aw (ISO 11654) = 0,90

SAA (ASTM - C423) = 0,86

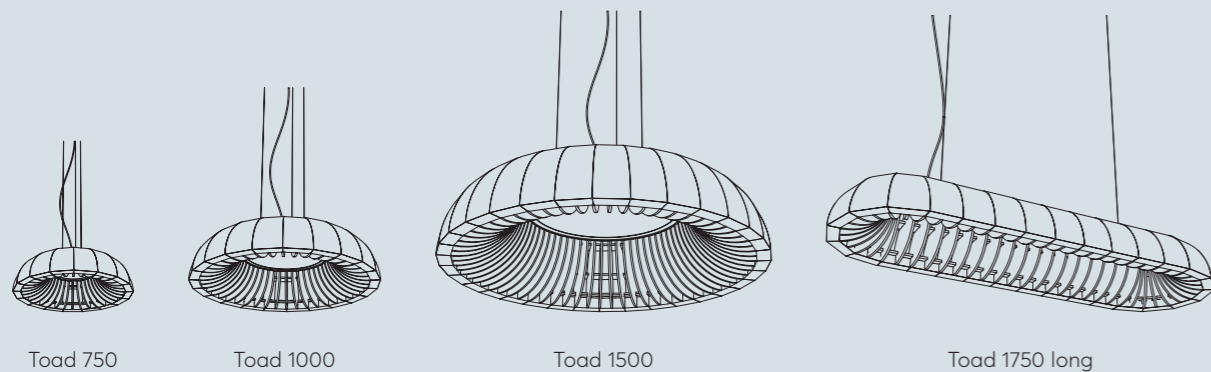
Toad

Toad harmoniously brings together functionality, acoustics and aesthetics. The design is inspired by natural and round shapes.

The spherical shade with high-quality LED panel emits a soft and diffused light, creating a warm and inviting atmosphere.

The shape of the lamp features organically shaped slats on the inside, offering high acoustic efficiency and pleasant light diffusion. Toad also has a large mass and plenty of surface area, making it the perfect recipe for a high-quality acoustic lamp.

Toad is available in different shapes, sizes and colors of PET Felt taking into account that the inside is always finished in a light color. The high-quality LED panel gives an even light, and is available in different color temperatures and dimming options.





Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap

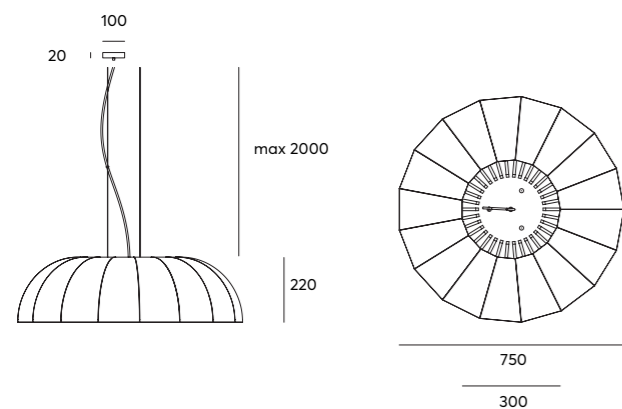
Lighting properties:

Integrated LED
 17W | 1850lm
 Dimmable
 Trailing edge (RC) | Dali
 CCT 2700 | 3000K | 4000K
 TW 2700-6500K
 IP20

Acoustic properties:

1,98 m² of acoustic absorption
 material of aw 0,45
 Diffusion due to the 'mushroom' design

Measurements:



Total weight gross | net: 5,5 | 4,3kg
Parcel size: 800x800x400mm
Mounting: 3x + 1x

Inside Colors:



Colors:



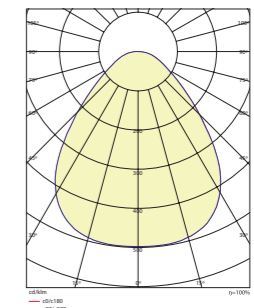
Light source specifications:



LED power:	17W
Connection voltage:	220-240V AC
Luminous Flux:	1850lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	109lm/W
Optics Beam of light:	Acrylic Opal Prism 85°
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra >80
UGR:	<22
Operating temperature:	-20 ~ +45

Photometrics:

Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

Toad is designed to catch sound directly from the space where sound is created. Such as meeting rooms or dining tables. Because of its large open design, soundwaves will travel inside the shade and the mushroom like slats absorb the sound.

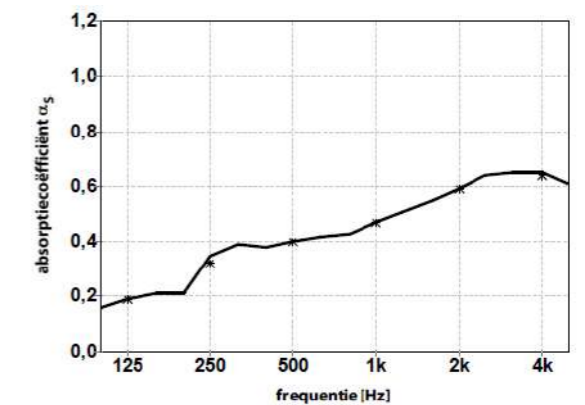
The LED element, will reflect the soundwaves

Calculated acoustic surface area: 1,98 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap

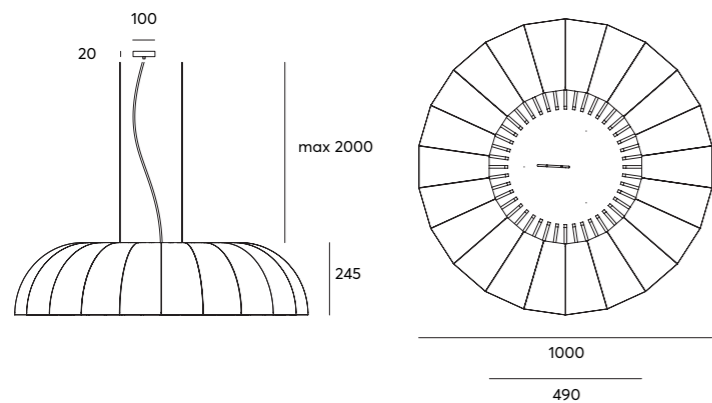
Lighting properties:

Integrated LED
 36W | 3560lm
 Dimmable
 Trailing edge (RC) | Dali
 CCT 2700 | 3000K | 4000K
 TW 2700-6500K
 IP20

Acoustic properties:

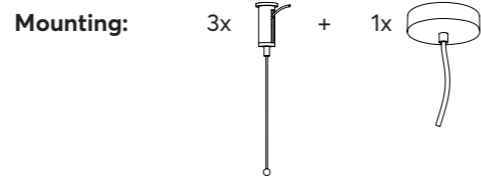
3,27 m² of acoustic absorption
 material of aw 0,45
 Diffusion due to the 'mushroom' design

Measurements:



Total weight gross | net: 10,6 | 9,4kg

Parcel size: 1000x1000x400mm



Inside Colors:



Colors:



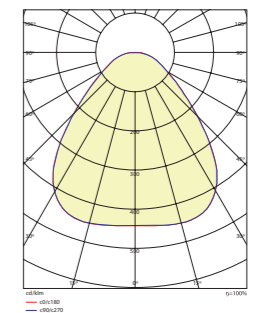
Light source specifications:



LED power:	36W
Connection voltage:	220-240V AC
Luminous Flux:	3560lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control/Dimmable:	Trailing Edge Dali
Power factor:	99lm/W
Optics Beam of light:	Acrylic Opal Prism 85°
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra >80
UGR:	<22
Operating temperature:	-20 ~ +45

Photometrics:

Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

Toad is designed to catch sound directly from the space where sound is created. Such as meeting rooms or dining tables. Because of its large open design, soundwaves will travel inside the shade and the mushroom like slats absorb the sound.

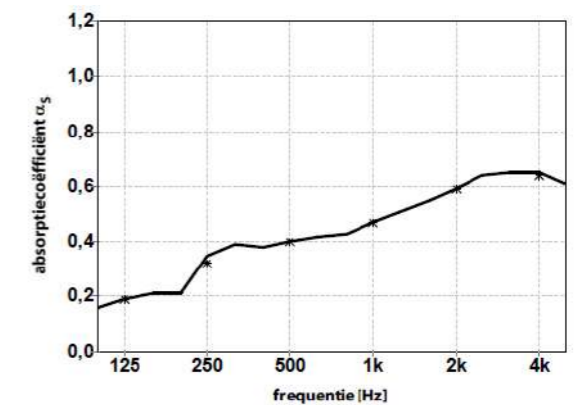
The LED element, will reflect the soundwaves

Calculated acoustic surface area: 3,27 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 4 black metal wires with adjustable griplock
 Black ceiling cap

Lighting properties:

Integrated LED
 64W | 6870lm

Dimmable
 Dali

CCT
 3000K | 4000K

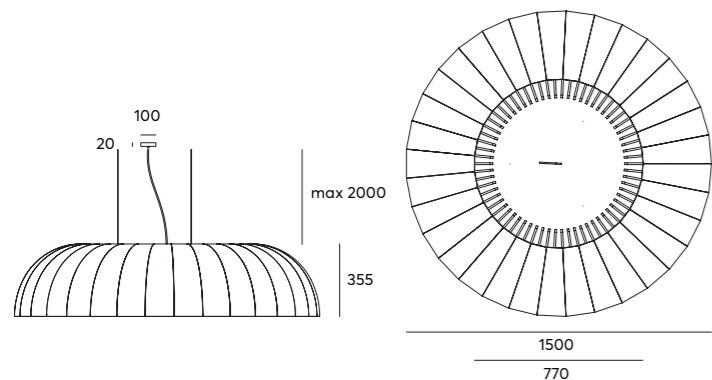
IP20

Acoustic properties:

8,84 m² of acoustic absorption material of aw 0,45

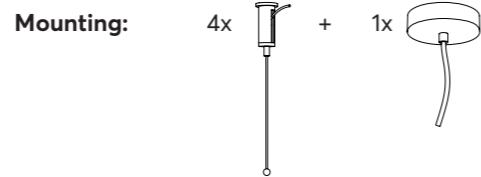
Diffusion due to the 'mushroom' design

Measurements:



Total weight gross | net: 28,9 | 25,7kg

Parcel size: 1500x1500x400mm



Inside Colors:



Colors:

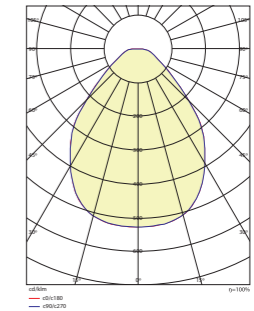


Light source specifications:

LED power:	64W
Connection voltage:	220-240V AC
Luminous Flux:	6870lm
Frequency:	50/60Hz
Driver:	Included Integrated
Control Dimmable:	Dali
Power factor:	107lm/W
Optics Beam of light:	Acrylic Opal Prism 83°
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<19
Operating temperature:	-20 ~ +45

Photometrics:

Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

Toad is designed to catch sound directly from the space where sound is created. Such as meeting rooms or dining tables. Because of its large open design, soundwaves will travel inside the shade and the mushroom like slats absorb the sound.

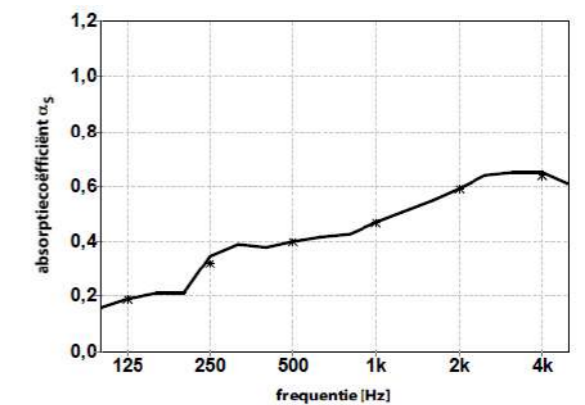
The LED element, will reflect the soundwaves

Calculated acoustic surface area: 8,84 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 2 black metal wires with adjustable griplock
 Black ceiling cap

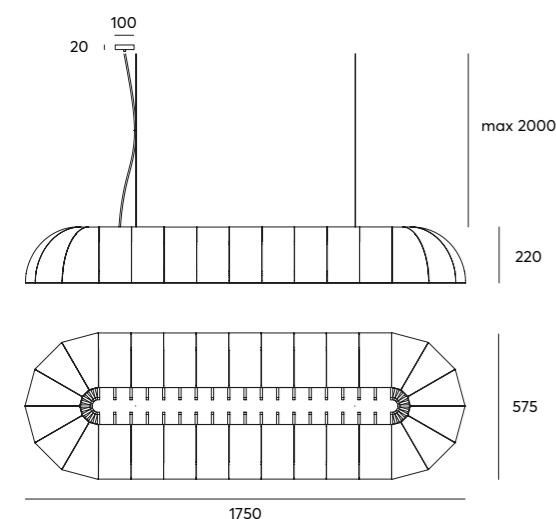
Lighting properties:

Integrated LED 34W | 4140lm
 Dimmable On-Off | Dali/Push
 CCT 3000K | 4000K
 IP20

Acoustic properties:

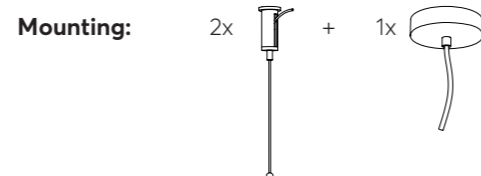
1,98 m² of acoustic absorption material of aw 0,45
 Diffusion due to the 'mushroom' design

Measurements:



Total weight gross | net: 10,9 | 9,8kg

Parcel size: 1800x600x250mm



Inside Colors:



Colors:

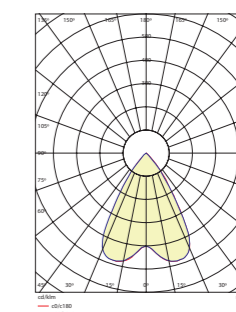


**Light source specifications:
 Cubic reflector**



LED power:	34W
Connection voltage:	220-240V AC
Luminous Flux:	4140lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Not dimmable Dali
Power factor:	122lm/W
Optics:	Cubic Optic Noir
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<10
Operating temperature:	-20 ~ +45

**Photometrics:
 Lumen intensity distribution**



Prismatic difusor



LED power:	29W
Connection voltage:	220-240V AC
Luminous Flux:	3510lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Dali / Push
Power factor:	121lm/W
Optics:	Prismatic difusor
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<19
Operating temperature:	-20 ~ +45

Acoustic specifications:

The acoustic design principle

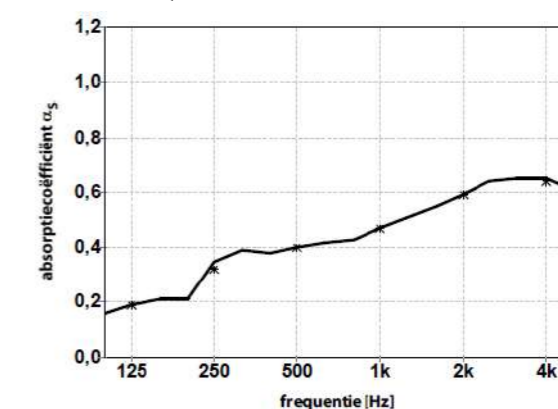
Toad is designed to catch sound directly from the space where sound is created. Such as meeting rooms or dining tables.

Calculated acoustic surface area: 1,98 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

**Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room**





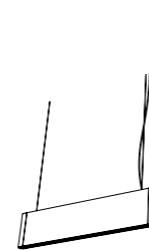
Line



Line is a technical luminaire ideal for lighting offices, public areas or even at home. Line is available in 3000K warm light or 4000K neutral work light. Line is made of acoustic PET Felt and available in different lengths and heights.

Line works well as a single light above a worktop, when combined with the acoustic model, Line becomes a minimalist fixture that also serves as a sound absorber.

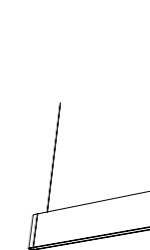
This allows Line to make a real acoustic design statement of the ceiling with the combination of baffles and Line fixtures in various colors, length, and height. Without having to compromise on light output and sound absorption.



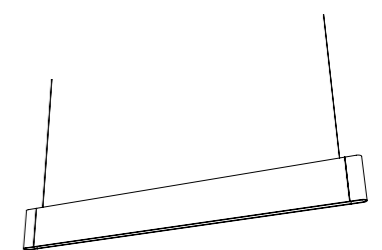
Line light 1290



Line light 2520



Line acoustic 1290



Line acoustic 2520



Line light 1290

Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black cable
 2 black metal wires with adjustable griplock
 Black ceiling cap and black PET Felt interior (standard)

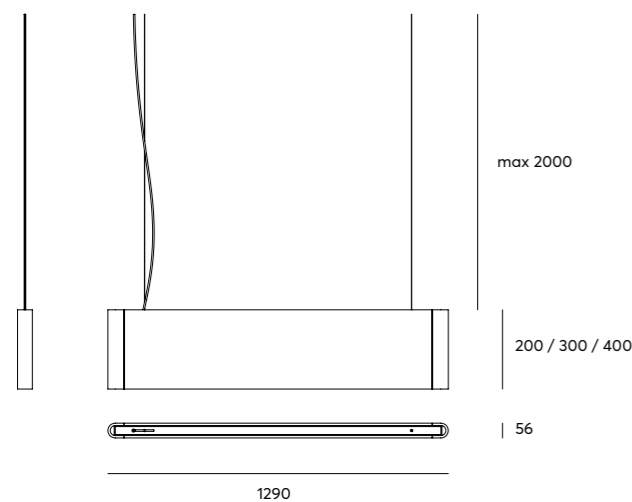
Lighting properties:

Integrated LED 17W | 2070lm
 Dimmable On-Off | Dali/Push
 CCT 3000K | 4000K
 IP20

Acoustic properties:

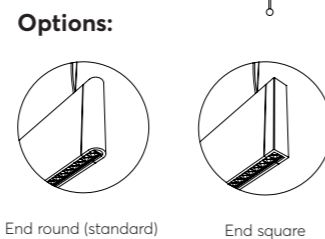
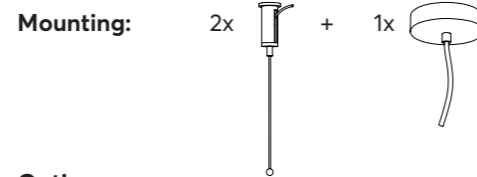
High absorption value of aw 1.0
 Diffusion

Measurements:



Total weight gross | net: 4,9kg | 4,1kg (300mm)

Parcel size: 1400x65x220/320/420mm



Colors:

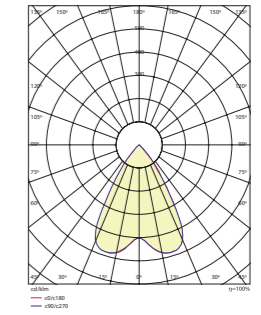


Light source specifications:
Cubic reflector



LED power:	17W
Connection voltage:	220-240V AC
Luminous Flux:	2070lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Not dimmable Dali
Power factor:	122lm/W
Optics:	Cubic Optic Noir
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<10
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution

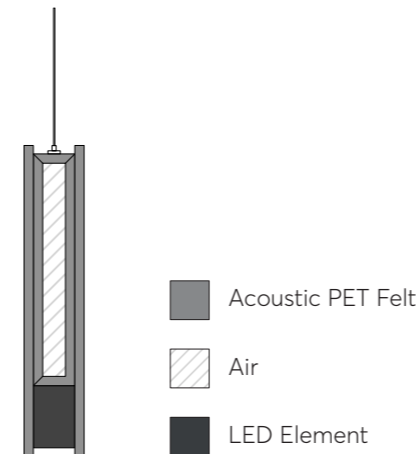


Prismatic difusor

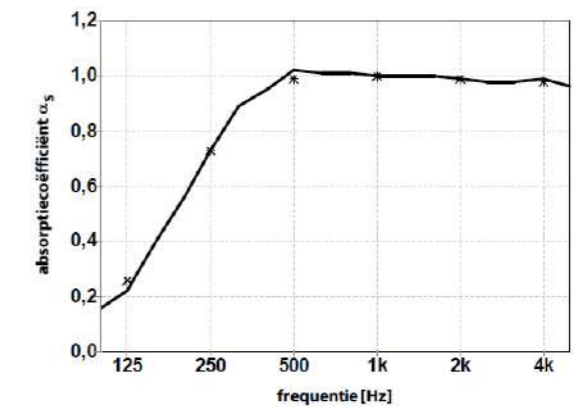


LED power:	15W
Connection voltage:	220-240V AC
Luminous Flux:	1810lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Dali / Push
Power factor:	122lm/W
Optics:	Prismatic difusor
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<19
Operating temperature:	-20 ~ +45

Acoustic specifications:



Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



	0,16	0,56	0,95	1,01	1,00	0,98
1/3 oct.	0,22	0,73	1,02	1,00	0,99	0,99
	0,41	0,89	1,01	1,00	0,98	0,96
1/1 oct.	0,26	0,73	0,99	1,00	0,99	0,98

aw (ISO 11654) = 1,00

SAA (ASTM - C423) = 0,93

The product is designed with the Sandwich Sound absorbing PET Felt principle. 2x 18mm of PET Felt with a 20mm of Air cavity. Due to the layered effect, the soundwaves are optimally absorbed by the design.

The LED element will reflect the soundwaves



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black cable
 2 black metal wires with adjustable griplock
 Black ceiling cap and black PET Felt interior (standard)

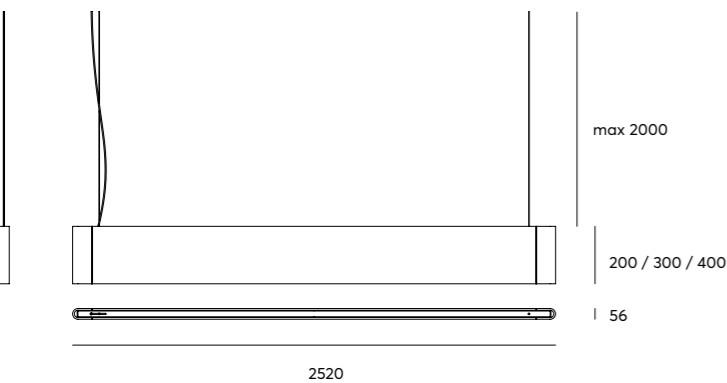
Lighting properties:

Integrated LED 34W | 4140lm
 Dimmable On-Off | Dali/Push
 CCT 3000K | 4000K
 IP20

Acoustic properties:

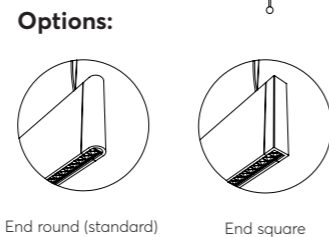
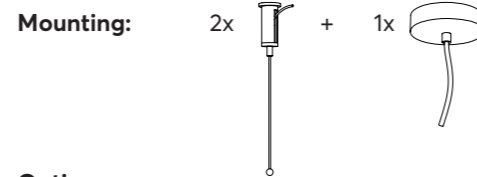
High absorption value of aw 1.0
 Diffusion

Measurements:



Total weight gross | net: 9,8kg | 9kg (300mm)

Parcel size: 2650x65x220/320/420mm



Colors:

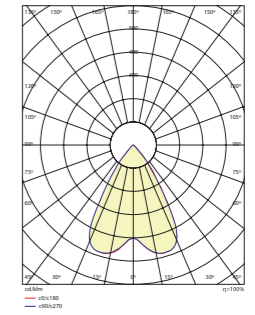


Light source specifications:
Cubic reflector



LED power:	34W
Connection voltage:	220-240V AC
Luminous Flux:	4140lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Not dimmable Dali
Power factor:	122lm/W
Optics:	Cubic Optic Noir
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<10
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution

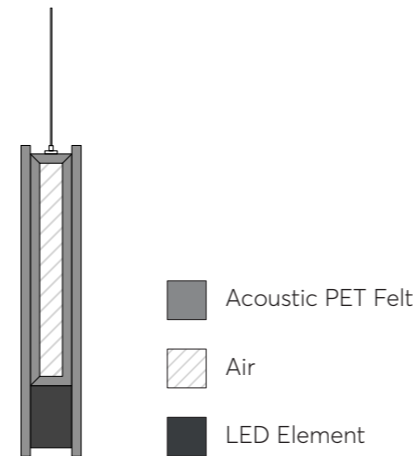


Prismatic difusor



LED power:	30W
Connection voltage:	220-240V AC
Luminous Flux:	3620lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Dali / Push
Power factor:	122lm/W
Optics:	Prismatic difusor
CCT Color temperature:	3000K 4000K
CRI:	Ra>80
UGR:	<19
Operating temperature:	-20 ~ +45

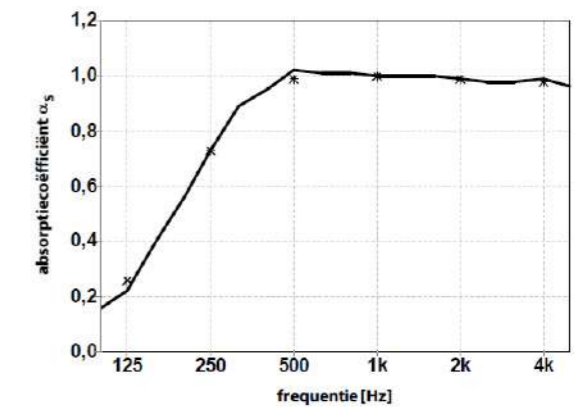
Acoustic specifications:



The product is designed with the Sandwich Sound absorbing PET Felt principle. 2x 18mm of PET Felt with a 20mm of Air cavity. Due to the layered effect, the soundwaves are optimally absorbed by the design.

The LED element will reflect the soundwaves

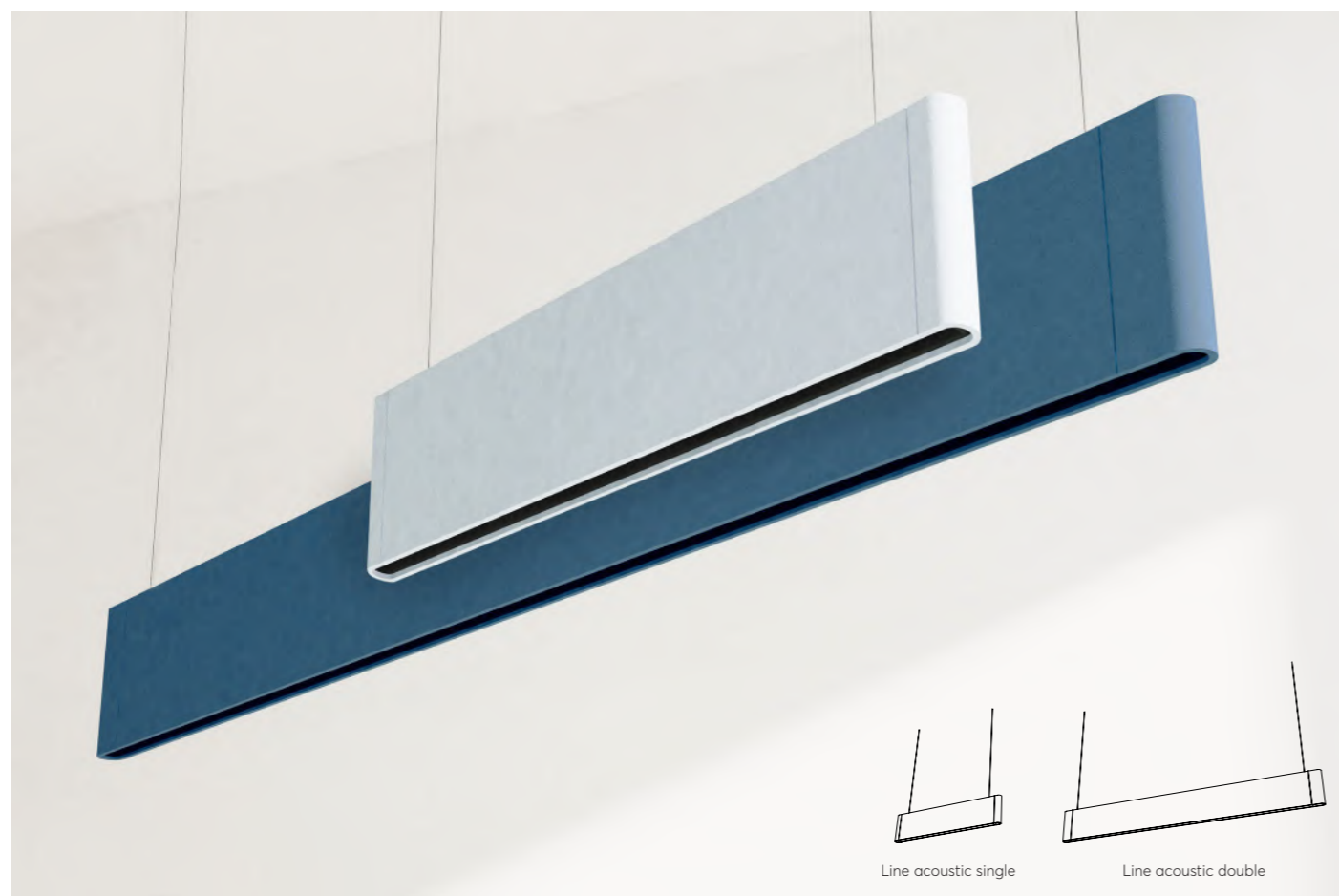
Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



	0,16	0,56	0,95	1,01	1,00	0,98
1/3 oct.	0,22	0,73	1,02	1,00	0,99	0,99
	0,41	0,89	1,01	1,00	0,98	0,96
1/1 oct.	0,26	0,73	0,99	1,00	0,99	0,98

aw (ISO 11654) = 1,00

SAA (ASTM - C423) = 0,93



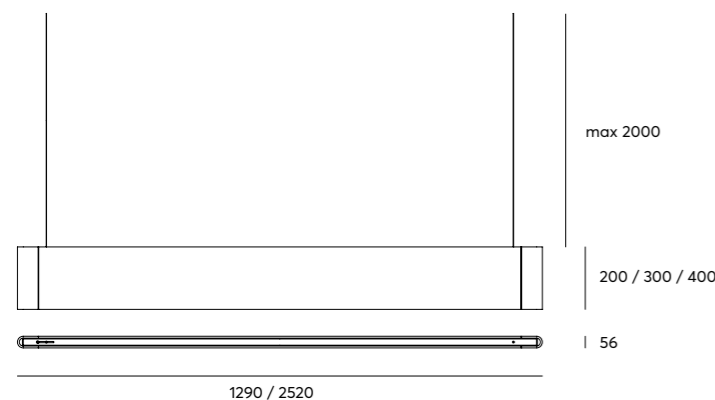
Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2 black metal wires with adjustable griplock
 Black PET Felt interior (standard)

Acoustic properties:

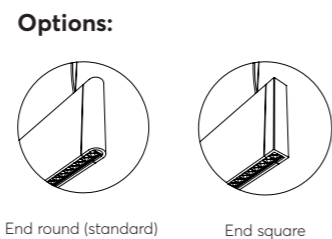
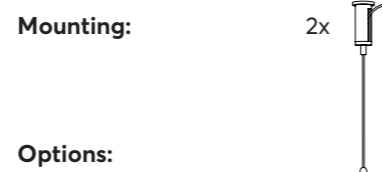
- High absorption value of α_w 1.0
- Diffusion

Measurements:



Total weight gross | net: 3,1 | 2,3kg / 4,7 | 3,9kg (300mm)

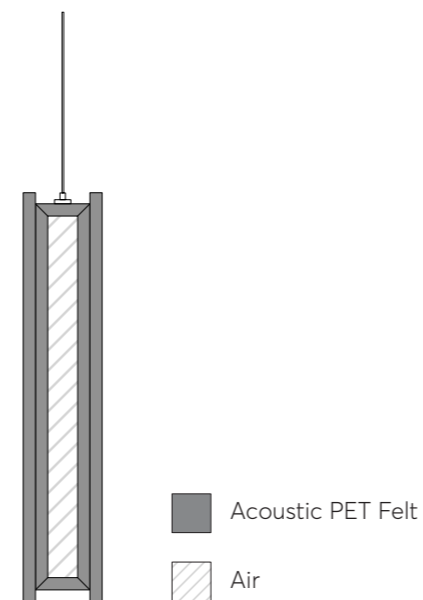
Parcel size: 1400x65x220/320/420mm
 2650x65x220/320/420mm



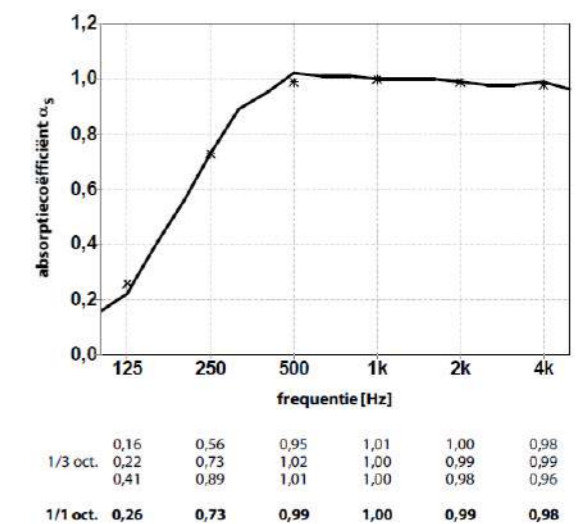
Colors:



Acoustic specifications:



Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



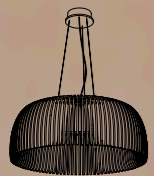
The product is designed with the Sandwich Sound absorbing PET Felt principle. 2x 18mm of PET Felt with a 20mm of Air cavity. Due to the layered effect, the sound-waves are optimally absorbed by the design.

α_w (ISO 11654) = 1,00

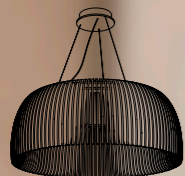
SAA (ASTM - C423) = 0,93



Breeze



Breeze 800



Breeze 1000

Breeze 800







Breeze 800



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m transparent cable
 3 metal wires with adjustable griplock
 White ceiling cap

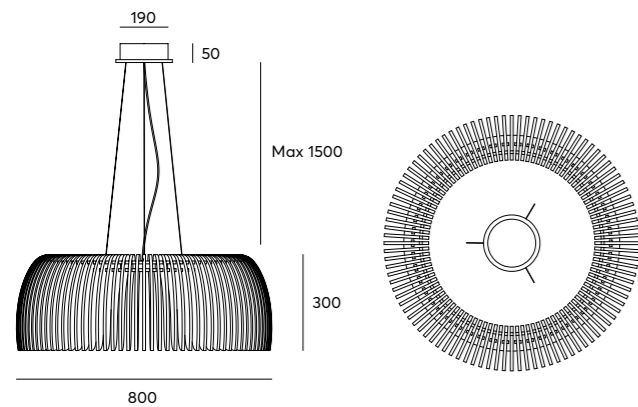
Lighting properties:

 Integrated LED 40W 4277lm	 Dimmable Not dimmable Dali
 CCT 3000K 4000K	 IP20

Acoustic properties:

 1,75 m ² of acoustic absorption material of aw 0,45
 Diffusion due to the 'lamella' design

Measurements:



Total weight gross | net: 11,3 | 10,2kg

Parcel size: 800x800x400mm



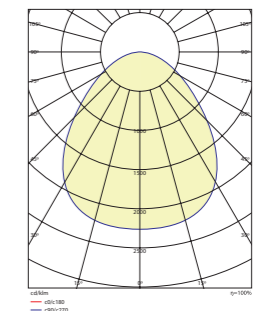
Colors:



Light source specifications:

LED power:	40W
Connection voltage:	220-240V AC
Luminous Flux:	4277lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control/Dimmable:	Non dim Dali
Power factor:	106lm/W
Optics Beam of light:	Acrylic prismatic Lens 90°
CCT Color temperature:	3000K 4000K
CRI:	Ra >90
UGR:	<19
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

Breeze is designed to catch sound directly from the space where sound is created. Such as meeting rooms or dining tables. Due to its 100 acoustic lamella structure, soundwaves will be absorbed and diffused

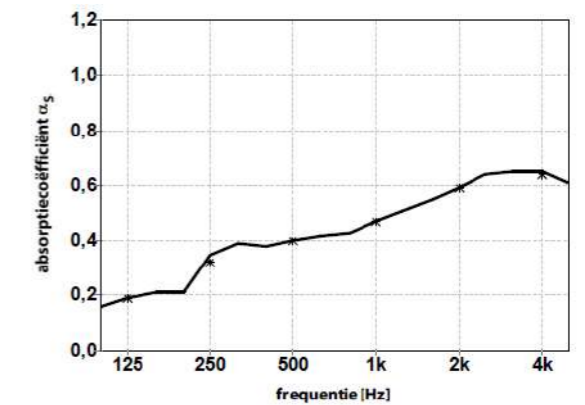
The LED element, will reflect the soundwaves

Calculated acoustic surface area: 1,75 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64


Breeze 1000





Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m transparent cable
 3 metal wires with adjustable griplock
 White ceiling cap

Lighting properties:

 Integrated LED 62W 7510lm	 Dimmable Dali/push
 CCT 3000K 4000K	 IP20

Acoustic properties:

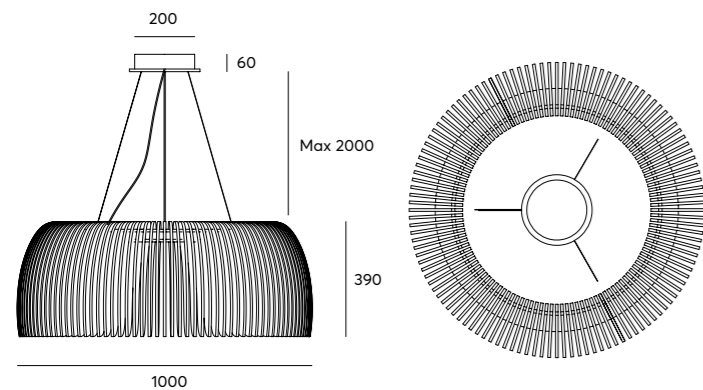
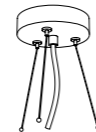
 3,45 m ² of acoustic absorption material of aw 0,45
 Diffusion due to the 'lamella' design

Measurements:

Total weight gross | net: 14,6 | 12,8kg

Parcel size: 1000x1000x400mm

Mounting:



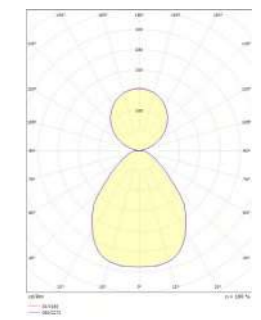
Colors:



Light source specifications:

LED power:	62W
Connection voltage:	220-240V AC
Luminous Flux:	7510lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control/Dimmable:	Dali
Power factor:	121lm/W
Optics Beam of light:	Acrylic prismatic Lens 90°
CCT Color temperature:	3000K 4000K
CRI:	Ra >80
UGR:	<19
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

Breeze is designed to catch sound directly from the space where sound is created. Such as meeting rooms or dining tables. Due to its 120 acoustic lamella structure, soundwaves will be absorbed and diffused

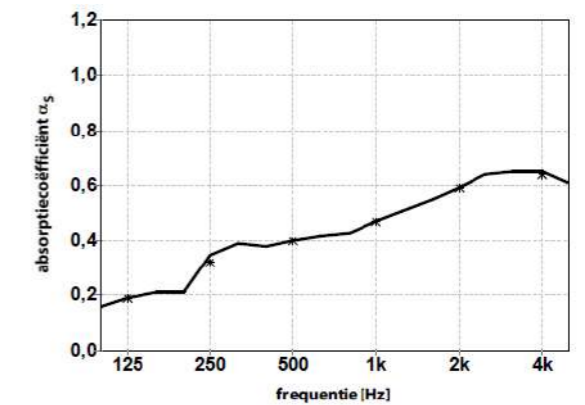
The LED element, will reflect the soundwaves

Calculated acoustic surface area: 3,45 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

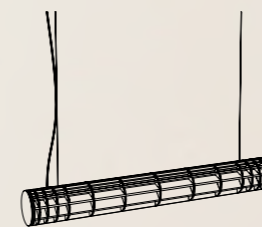
Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



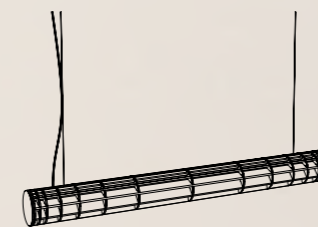
	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64

Column

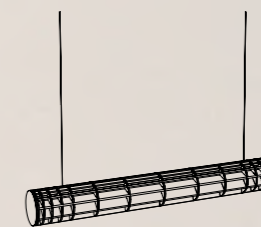
Column is a very versatile model that comes in two sizes. It can be grouped to create a playful look, especially in combination with its acoustic version. Column has an integrated LED tube light with excellent properties. A true statement addition to your space!



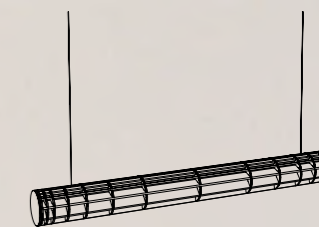
Column light 1600



Column light 2000

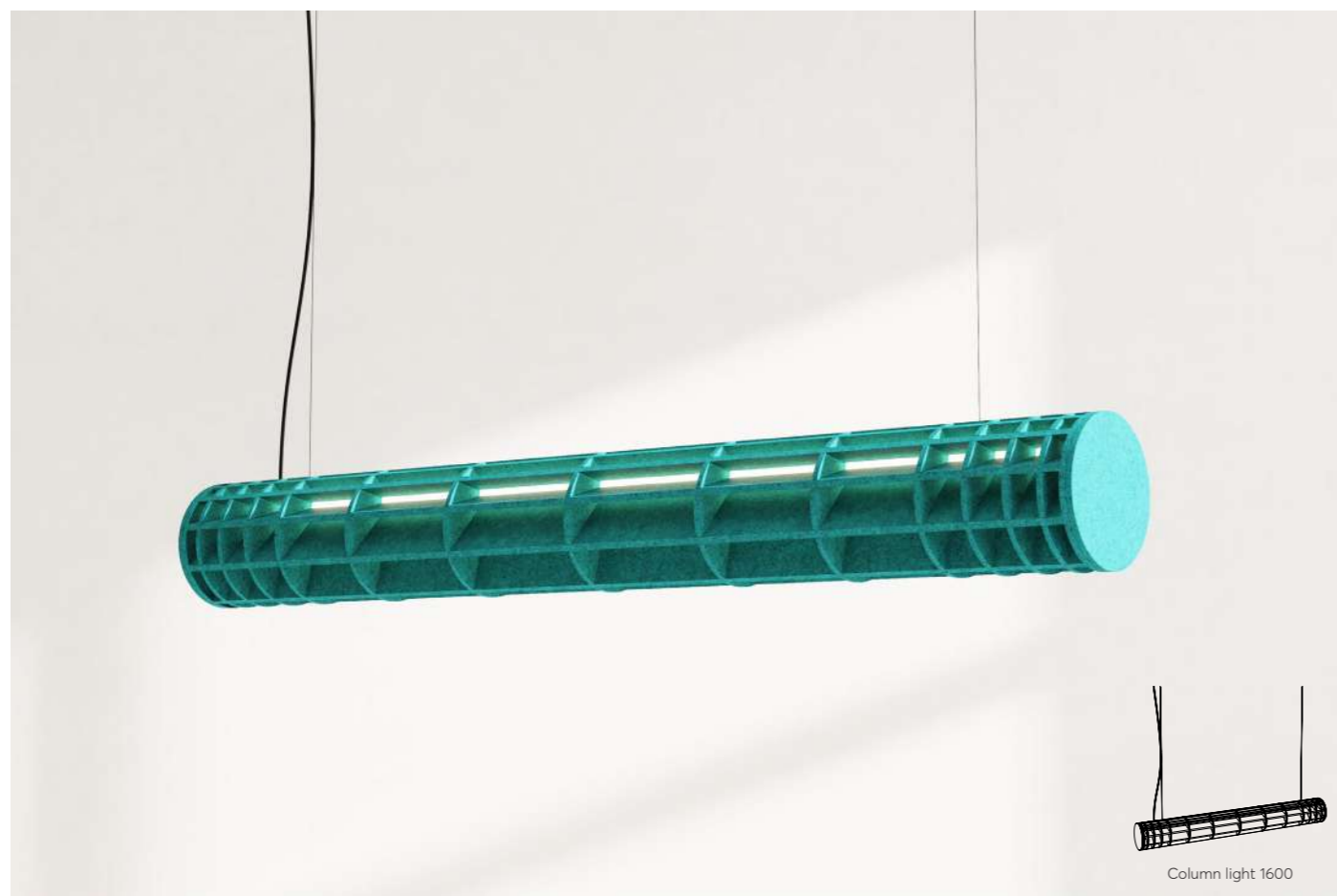


Column acoustic 1600



Column acoustic 2000

Column light 1600



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 2 black metal wires with adjustable griplock
 Black ceiling cap

Lighting properties:

Integrated LED 30W | 2350lm
 Dimmable Trailing edge (RC) | Dali
 CCT 2700 | 3000K | 4000K
 IP20

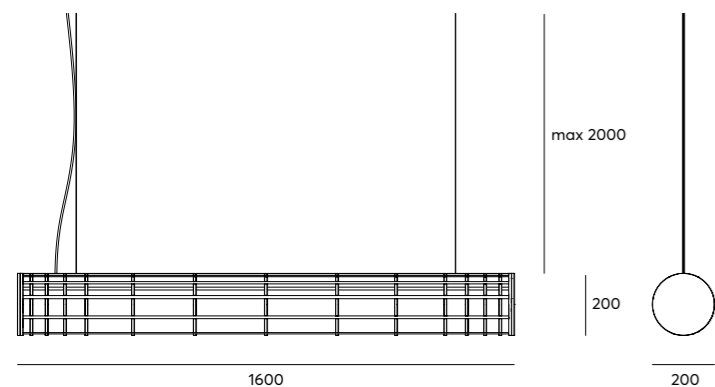
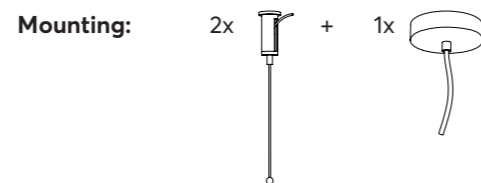
Acoustic properties:

1,57 m² of acoustic absorption material of aw 0,45
 Diffusion due to the 'radial' design

Measurements:

Total weight gross | net: 3,3kg | 2,5kg

Parcel size: 1700x200x200mm



Colors:



Light source specifications:

LED power:	30W
Connection voltage:	220-240V AC
Luminous Flux:	2350lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	78lm/W
Optics Beam of light:	Acrylic difusor 270°
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra95
Operating temperature:	-20 ~ +45

Acoustic specifications:

The acoustic design principle.

Column is designed to be applied in large open spaces with high ceilings, or clustered above a table. Due to its radial shape soundwaves are captured and absorbed by the open structure

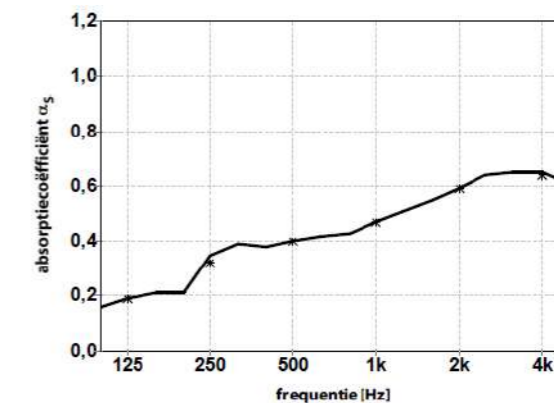
Its advisable to cluster multiple columns to create a statement installation and thereby add more sound-absobing volume to the space.

Calculated acoustic surface area: 1,57 m²

aw (ISO 11654) = 0,45

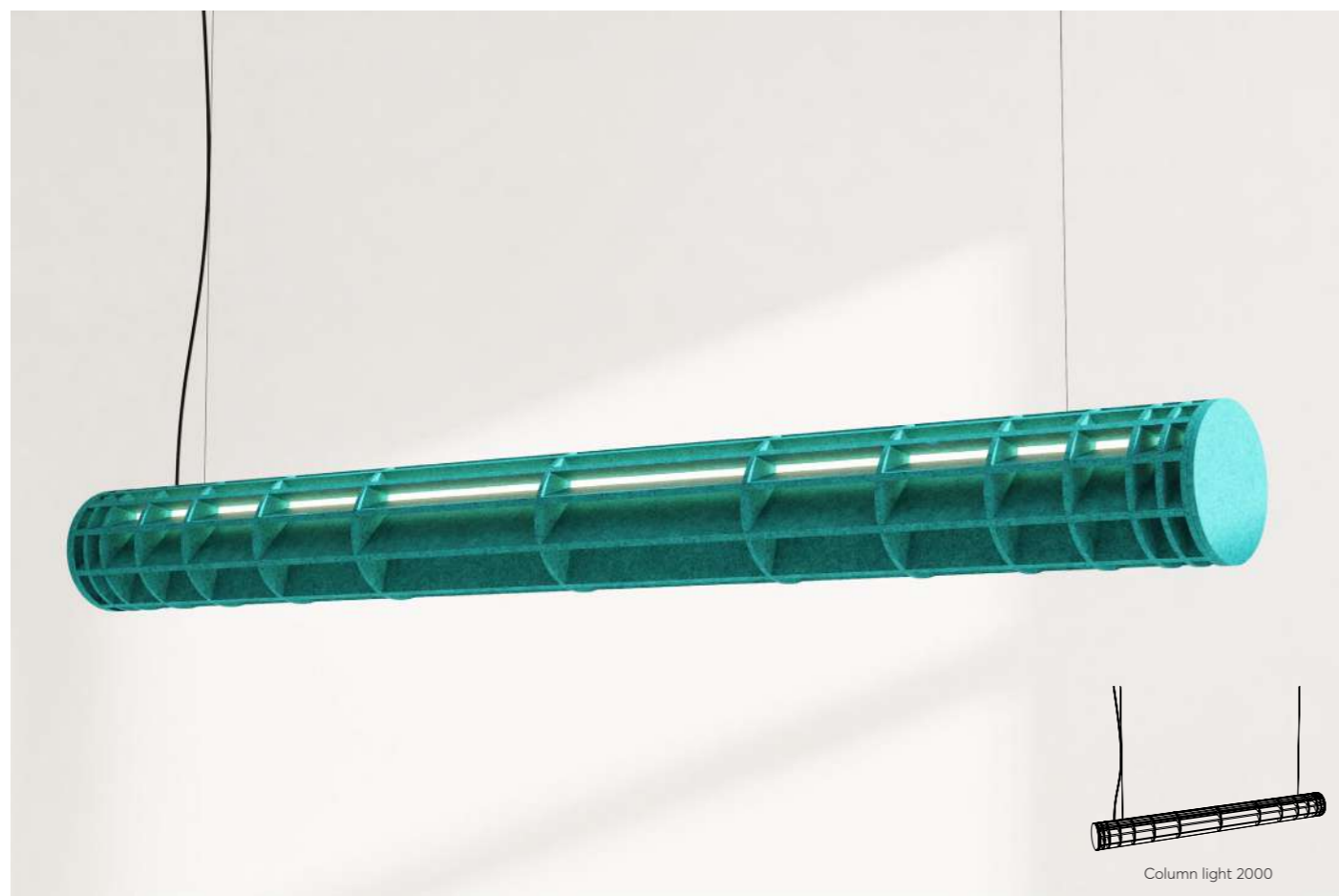
SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64

Column light 2000



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 2 black metal wires with adjustable griplock
 Black ceiling cap

Lighting properties:

Integrated LED
 38W | 2940lm

Dimmable
 Trailing edge (RC) | Dali

CCT 2700 | 3000K | 4000K

IP20

Acoustic properties:

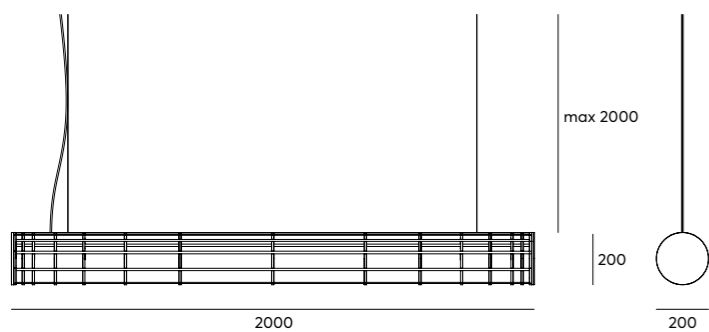
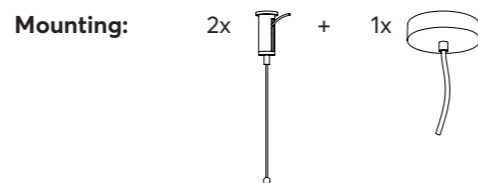
1,86 m² of acoustic absorption material of aw 0,45

Diffusion due to the 'radial' design

Measurements:

Total weight gross | net: 4,6kg | 3,8kg

Parcel size: 2100x200x200mm



Colors:



Light source specifications:

LED power:	30W
Connection voltage:	220-240V AC
Luminous Flux:	2350lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	78lm/W
Optics Beam of light:	Acrylic difusor 270°
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra95
Operating temperature:	-20 ~ +45

Acoustic specifications:

The acoustic design principle.

Column is designed to be applied in large open spaces with high ceilings, or clustered above a table. Due to its radial shape soundwaves are captured and absorbed by the open structure

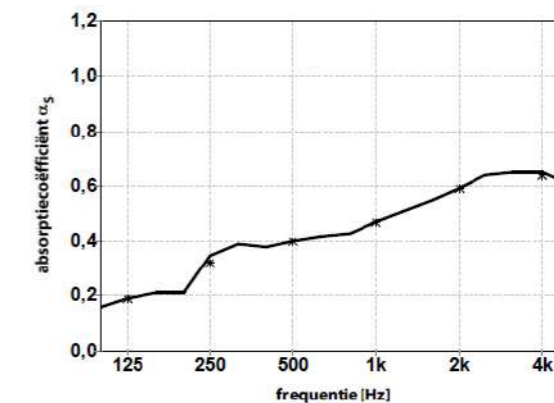
Its advisable to cluster multiple columns to create a statement installation and thereby add more sound-absorbing volume to the space.

Calculated acoustic surface area: 1,86 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt sound absorption calculation in a reverberation room



	125	250	500	1k	2k	4k
1/3 oct.	0.16 0.19 0.21	0.21 0.35 0.39	0.38 0.40 0.42	0.43 0.47 0.51	0.55 0.59 0.64	0.65 0.65 0.61
1/1 oct.	0.19	0.32	0.40	0.47	0.59	0.64



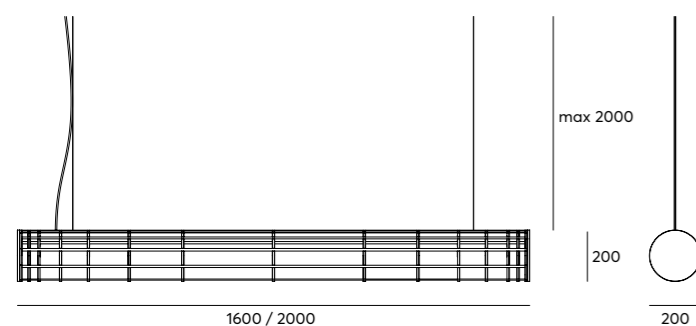
Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2 black metal wires with adjustable griplock

Acoustic properties:

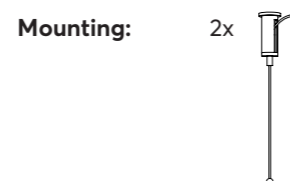
- High acoustic absorption value of α_w 0,45
- Diffusion due to the 'radial' design

Measurements:



Total weight gross | net: 2,6|1,8kg / 3,2|2,5kg

Parcel size: 1700x200x200mm
 2100x200x200mm



Colors:



Acoustic specifications:

The acoustic design principle.

Column is designed to be applied in large open spaces with high ceilings, or clustered above a table. Due to its radial shape soundwaves are captured and absorbed by the open structure

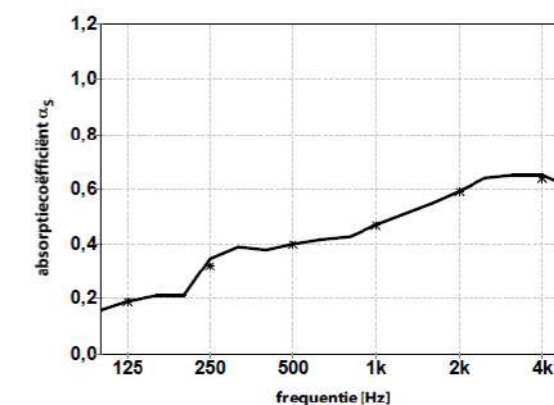
Its advisable to cluster multiple columns to create a statement installation and thereby add more sound-absorbing volume to the space.

Calculated acoustic surface area: 1,86 m²

α_w (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

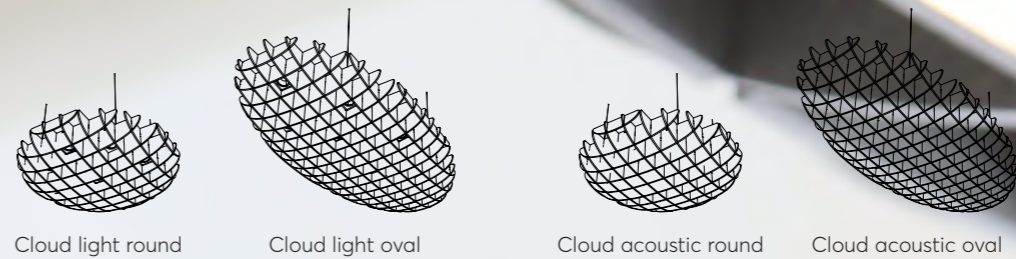
Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64

Cloud

Cloud is a true acoustic solution, mainly because of its sheer size. With the addition of LED spotlights, it is the perfect model to hang above a large table or a group of desks. It also serves as a great design feature in high hallways or open spaces.



Cloud light round

Cloud light oval

Cloud acoustic round

Cloud acoustic oval



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 4 black metal wires with adjustable griplock
 Black ceiling cap

Lighting properties:

Integrated LED
 9x 6W | 9x 400lm
 Dimmable
 Trailing edge (RC)
 (Dali Phase cut dim Add On)
 CCT 2700K | 3000K | 4000K
 IP20

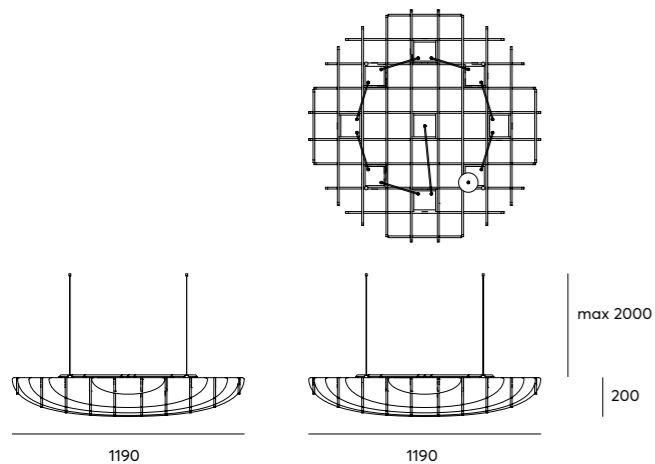
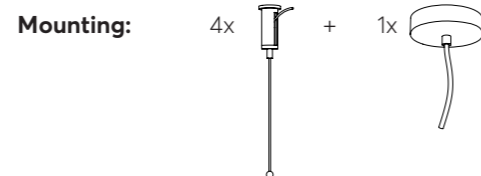
Acoustic properties:

2,54 m² of acoustic absorption
 material of aw 0,45
 Diffusion due to the 'cubical' design

Measurements:

Total weight gross | net: 7,8kg | 6,4kg

Parcel size: 1220x1220x250mm



Colors:



Light source specifications:



LED power:	9x 6W
Connection voltage:	220-240V DC
Luminous Flux:	9x 400lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control/Dimmable:	Trailing edge (RC)
Power factor:	122lm/W
Beam of light:	40°
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra>80
UGR:	<10
Operating temperature:	-20 ~ +40

Acoustic specifications:

The acoustic design principle.

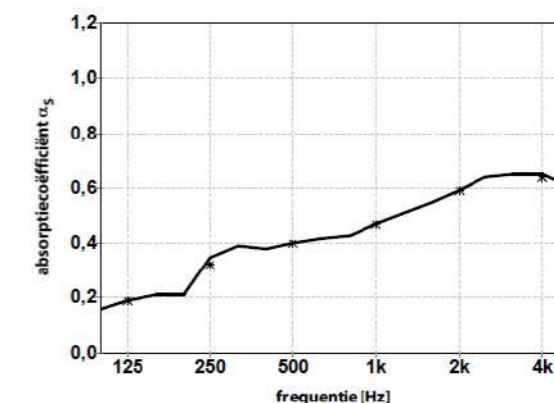
Cloud light is designed to hang near the ceiling, where the traveling/dragging noise takes place. To catch these soundwaves, cloud is designed with an open structure where sound can travel through and in. To damp the buzz in the space to an absolute minimum.

Calculated acoustic surface area: 2,54 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 4 black metal wires with adjustable griplock
 Black ceiling cap

Lighting properties:

Integrated LED
 10x 6W | 10x 400lm

Dimmable
 Trailing edge (RC)
 (Dali Phase cut dim Add On)

CCT 2700K | 3000K | 4000K

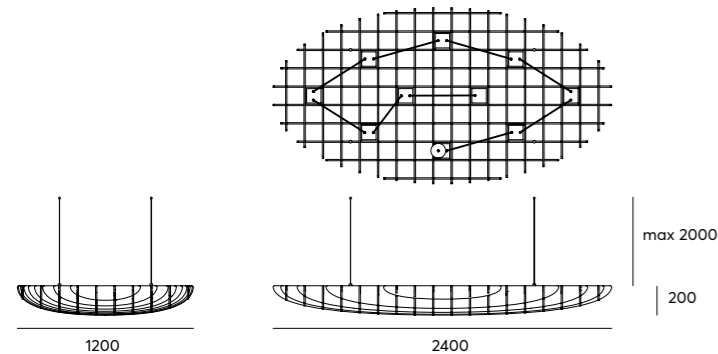
IP20

Acoustic properties:

4,94 m² of acoustic absorption
 material of aw 0,45

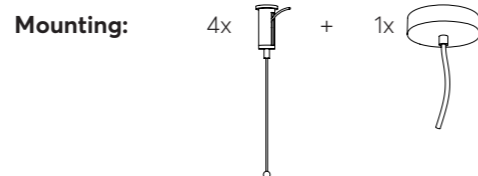
Diffusion due to the 'cubical' design

Measurements:



Total weight gross | net: 11,4kg | 9,9kg

Parcel size: 2420x1220x250mm



Colors:



Light source specifications:



LED power:	10x 6W
Connection voltage:	220-240V DC
Luminous Flux:	10x 400lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control/Dimmable:	Trailing edge (RC)
Power factor:	122lm/W
Beam of light:	40°
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra>80
UGR:	<10
Operating temperature:	-20 ~ +40

Acoustic specifications:

The acoustic design principle

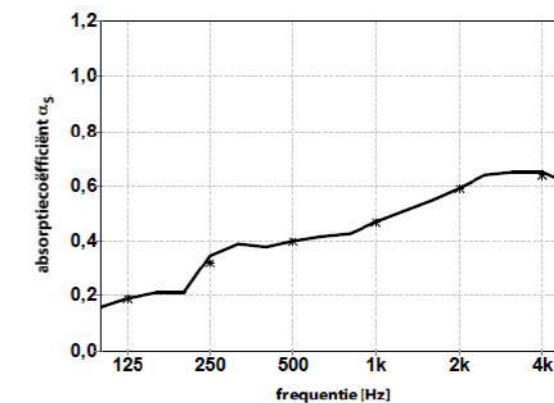
Cloud light is designed to hang near the ceiling, where the traveling/dragging noise takes place. To catch these soundwaves, cloud is designed with an open structure where sound can travel through and in. To damp the buzz in the space to an absolute minimum.

Calculated acoustic surface area: 4,94 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt sound absorption calculation in a reverberation room



	125	250	500	1k	2k	4k
1/3 oct.	0,16	0,21	0,38	0,43	0,55	0,65
	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



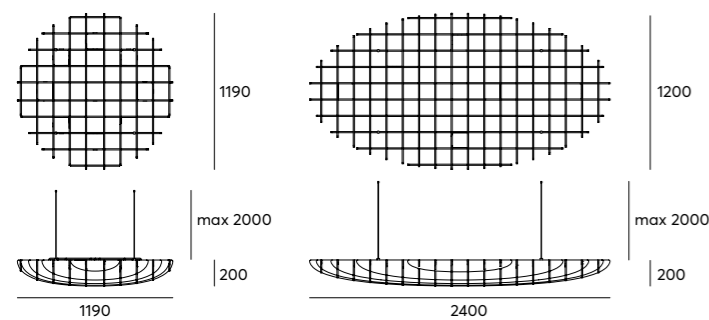
Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 4 black metal wires with adjustable griplock

Acoustic properties:

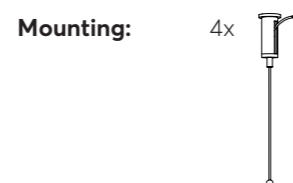
- High acoustic absorption value of α_w 0,45
- Diffusion due to the 'cubical' design

Measurements:



Total weight gross | net: 5,2kg | 4,0kg / 9,0kg | 7,6kg

Parcel size: 1220x1220x250mm
 2420x1220x250mm



Colors:



Acoustic specifications:

The acoustic design principle

Cloud light is designed to hang near the ceiling, where the traveling/dragging noise takes place. To catch these soundwaves, cloud is designed with an open structure where sound can travel through and in. To damp the buzz in the space to an absolute minimum.

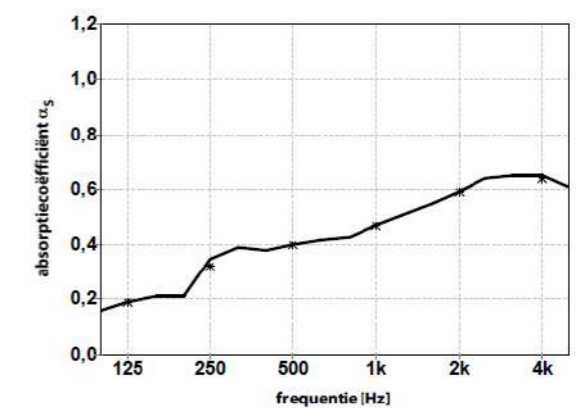
Cloud round acoustic surface area: 2,54 m²

Cloud oval acoustic surface area: 4,94 m²

α_w (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



Cone's sleek exterior boasts an impeccable finish that adds a touch of modern sophistication to any space. Its refined silhouette captures the essence of minimalist design. Cone's unique dual-color feature further accentuates its versatility. Due to its size and shape, this model's acoustic properties are well-suited for improving office surroundings.

Cone



Cone light 750



Cone light 1000





Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 Black ceiling cap

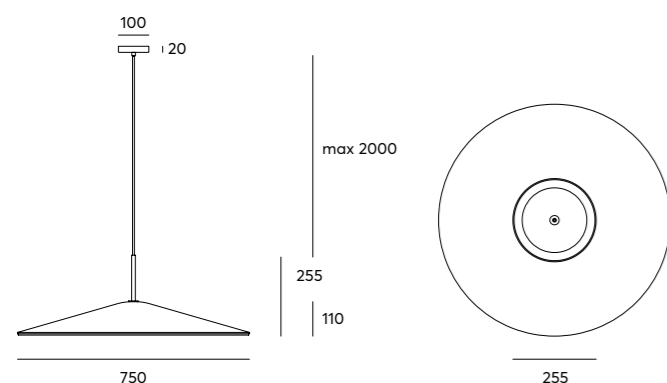
Lighting properties:

Integrated LED
 13W | 1370lm
 Dimmable
 Trailing edge (RC) | Dali
 CCT 2700 | 3000K | 4000K
 TW 2700-6500K
 IP20

Acoustic properties:

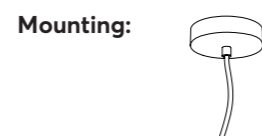
High absorption value
 Diffusion

Measurements:



Total weight gross | net: 4,9kg | 4,1kg

Parcel size: 800x800x400mm



Inside Colors:



Outside Colors:



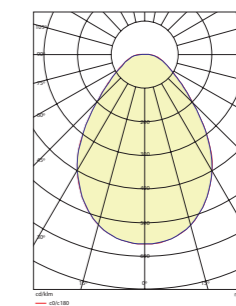
Light source specifications:



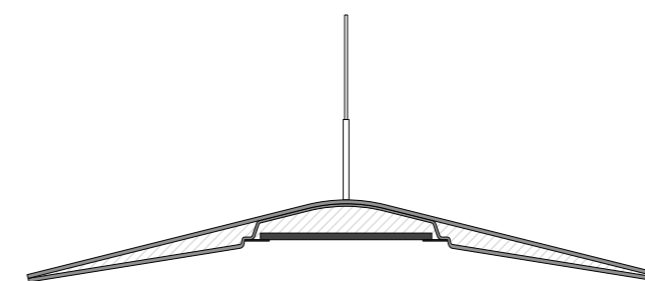
LED power:	13W
Connection voltage:	220-240V AC
Luminous Flux:	1370lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	105lm/W
Optics:	Acrylic Opal Prism
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra>80
UGR:	<25
Operating temperature:	-20 ~ +45

Photometrics:

Lumen intensity distribution



Acoustic specifications:

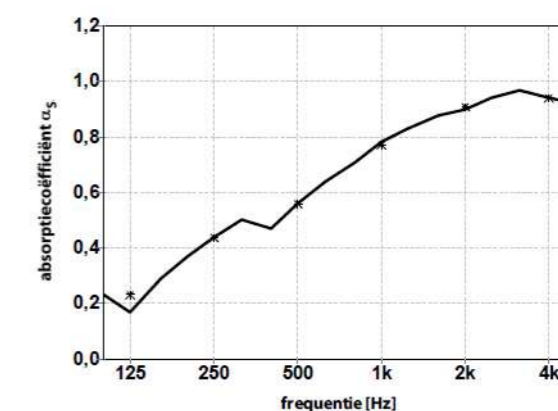


- Acoustic PET Felt
- Air
- LED Element

The product is designed with a double layer sound absorbing PET Felt and an air cavity in between. Because of to the layered effect, the soundwaves are optimally absorbed by the fixture.

The LED element will reflect the soundwaves.

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



	0,23	0,37	0,47	0,71	0,88	0,97
1/3 oct.	0,17	0,44	0,56	0,78	0,90	0,94
	0,29	0,50	0,64	0,83	0,94	0,92
1/1 oct.	0,23	0,44	0,56	0,77	0,91	0,94

aw (ISO 11654) = 0,65 (H)

SAA (ASTM - C423) = 0,67



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 Black ceiling cap

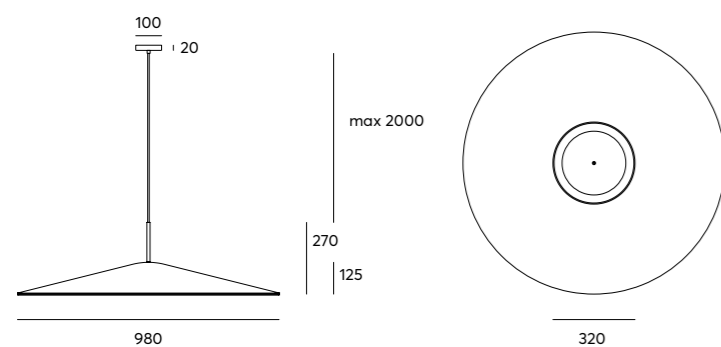
Lighting properties:

Integrated LED
 17W | 1870lm
 Dimmable
 Trailing edge (RC) | Dali
 CCT
 2700 | 3000K | 4000K
 TW 2700-6500K
 IP20

Acoustic properties:

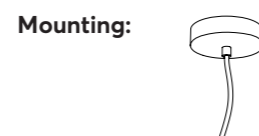
High absorption value
 Diffusion

Measurements:



Total weight gross | net: 6,7kg | 5,5kg

Parcel size: 1000x1000x400mm



Inside Colors:



Outside Colors:

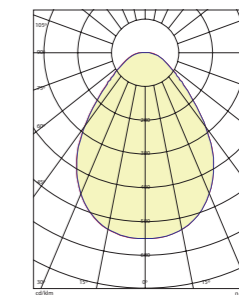


Light source specifications:

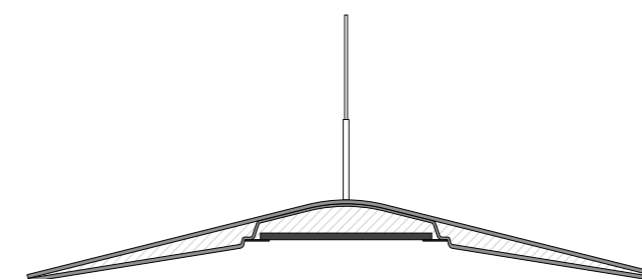


LED power:	17W
Connection voltage:	220-240V AC
Luminous Flux:	1870lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	110lm/W
Optics:	Acrylic Opal Prism
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra>80
UGR:	<25
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

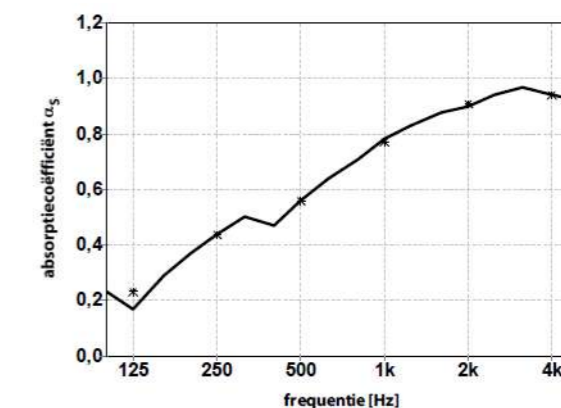


- Acoustic PET Felt
- Air
- LED Element

The product is designed with a double layer sound absorbing PET Felt and an air cavity in between. Because of to the layered effect, the soundwaves are optimally absorbed by the fixture.

The LED element will reflect the soundwaves.

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



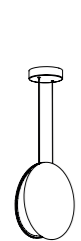
	0,23	0,37	0,47	0,71	0,88	0,97
1/3 oct.	0,17	0,44	0,56	0,78	0,90	0,94
	0,29	0,50	0,64	0,83	0,94	0,92
1/1 oct.	0,23	0,44	0,56	0,77	0,91	0,94

aw (ISO 11654) = 0,65 (H)

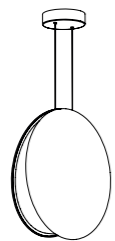
SAA (ASTM - C423) = 0,67

Macaron

Macaron is the ultimate eye-catcher that instantly adds atmosphere to a room. A combination of lighting and acoustic models provides diversity. Additionally, this model is available as both a wall and ceiling lamp.



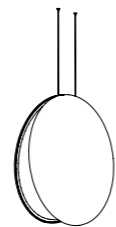
Macaron light pendant 450



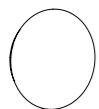
Macaron light pendant 600



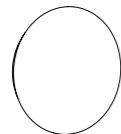
Macaron acoustic pendant 450



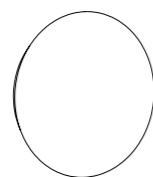
Macaron acoustic pendant 600



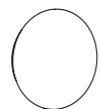
Macaron light wall 450



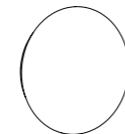
Macaron light wall 600



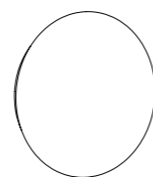
Macaron light wall 800



Macaron acoustic wall 450



Macaron acoustic wall 600



Macaron acoustic wall 800







Macaron light pendant 450





Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2 black metal wires with adjustable griplock
 Black ceiling cap

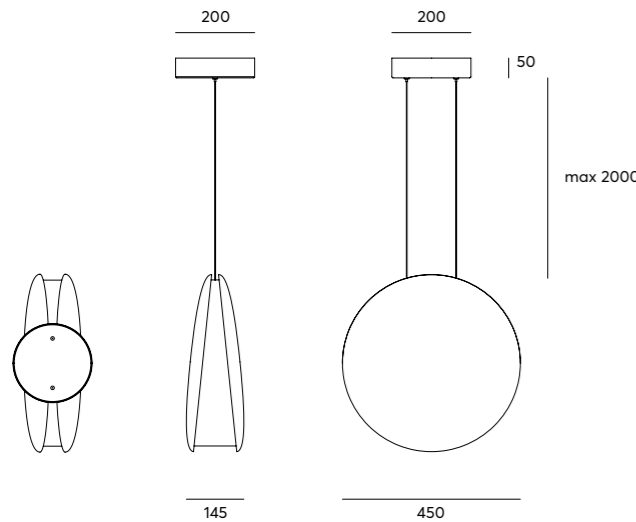
Lighting properties:

-  **Integrated LED**
 30W | 1440lm
-  **Dimmable**
 Trailing edge (RC) | Dali
-  **CCT** 2700 | 3000K | 4000K
-  **IP20**

Acoustic properties:

-  **High absorption**
 value of α_w 0,85
-  **Diffusion**

Measurements:



Total weight: 2,9kg



Inside Colors:



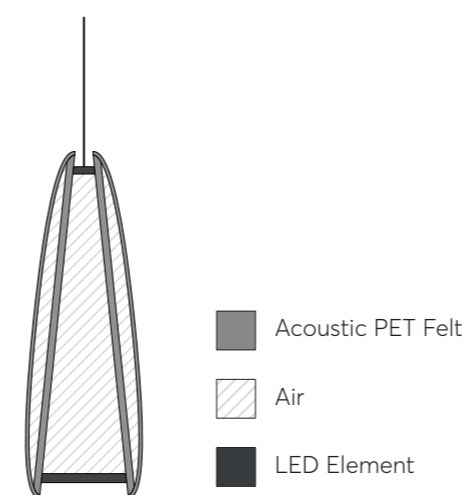
Outside Colors:



Light source specifications:

LED power:	30W
Connection voltage:	220-240V AC
Luminous Flux:	1440lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control/Dimmable:	Trailing edge (RC) Dali
Power factor:	48lm/W
Optics:	Acrylic diffusor
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra>90
UGR:	<10
Operating temperature:	-20 ~ +45

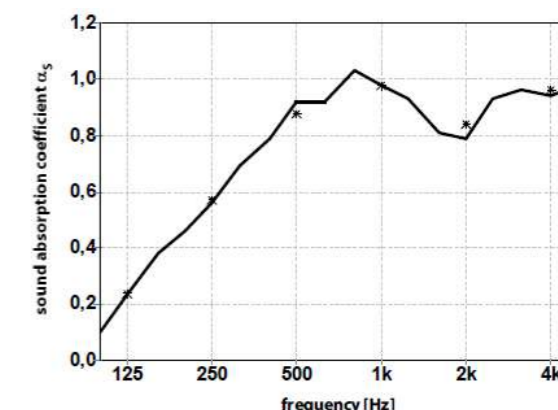
Acoustic specifications:



The product is designed with multiple layers of sound absorbing PET Felt and an air cavity in between. Because of the layered effect, the soundwaves are optimally absorbed by the fixture.

The LED element will reflect the soundwaves.

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



	0,10	0,46	0,79	1,03	0,81	0,96
1/3 oct.	0,23	0,56	0,92	0,98	0,79	0,94
	0,38	0,69	0,92	0,93	0,93	0,98
1/1 oct.	0,24	0,57	0,88	0,98	0,84	0,96

α_w (ISO 11654) = 0,85 (H)

SAA (ASTM - C423) = 0,82

Macaron light pendant 600



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2 black metal wires with adjustable griplock
 Black ceiling cap

Lighting properties:

Integrated LED
 42W | 1950lm
 Dimmable
 Trailing edge (RC) | Dali
 CCT 2700 | 3000K | 4000K
 IP20

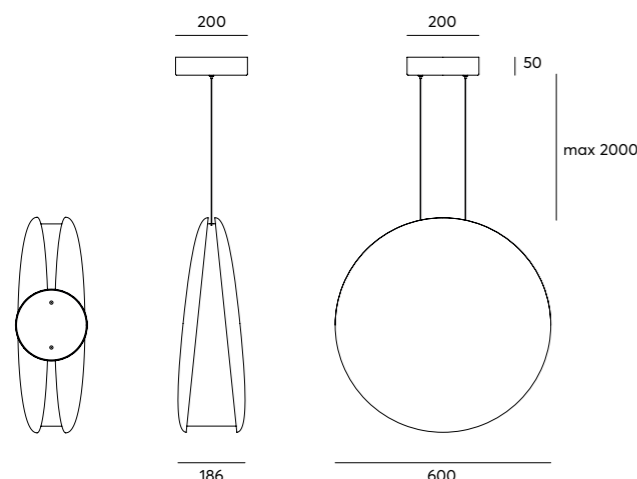
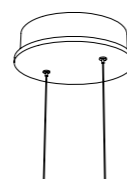
Acoustic properties:

High absorption
 value of α_w 0,85
 Diffusion

Measurements:

Total weight: 4,0kg

Mounting:



Inside Colors:



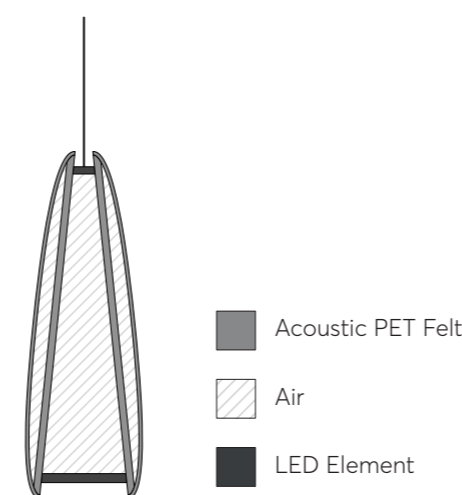
Outside Colors:



Light source specifications:

LED power:	42W
Connection voltage:	220-240V AC
Luminous Flux:	1950lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control/Dimmable:	Trailing edge (RC) Dali
Power factor:	46,5lm/W
Optics:	Acrylic diffusor
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra>90
UGR:	<10
Operating temperature:	-20 ~ +45

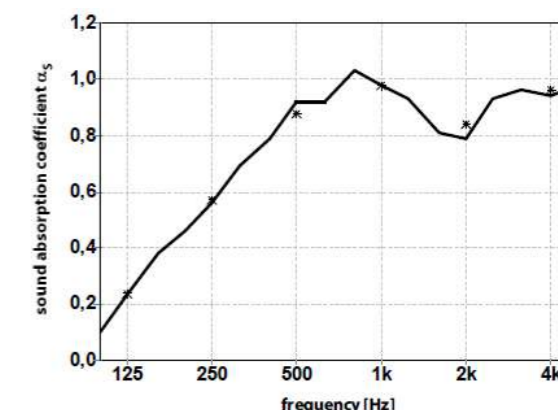
Acoustic specifications:



The product is designed with multiple layers of sound absorbing PET Felt and an air cavity in between. Because of the layered effect, the soundwaves are optimally absorbed by the fixture.

The LED element will reflect the soundwaves.

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



	0,10	0,46	0,79	1,03	0,81	0,96
1/3 oct.	0,23	0,56	0,92	0,98	0,79	0,94
	0,38	0,69	0,92	0,93	0,93	0,98
1/1 oct.	0,24	0,57	0,88	0,98	0,84	0,96

α_w (ISO 11654) = 0,85 (H)

SAA (ASTM - C423) = 0,82

Macaron acoustic pendant



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2 black metal wires with adjustable griplock

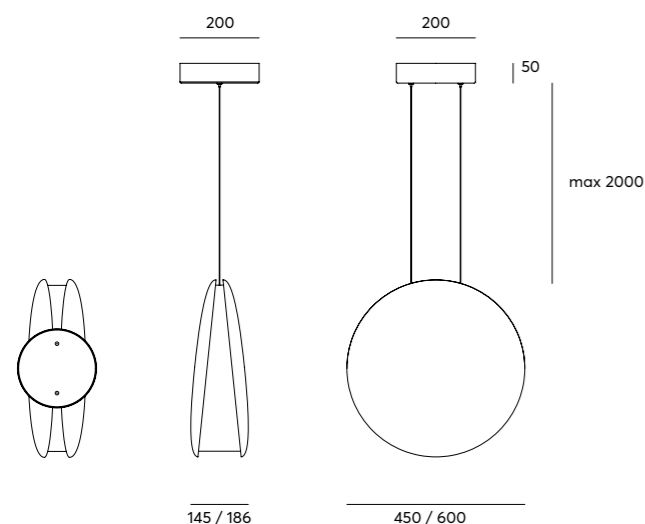
Acoustic properties:

- High absorption value of α_w 0,9
- Diffusion

Total weight: 2,9kg / 4,0kg



Measurements:



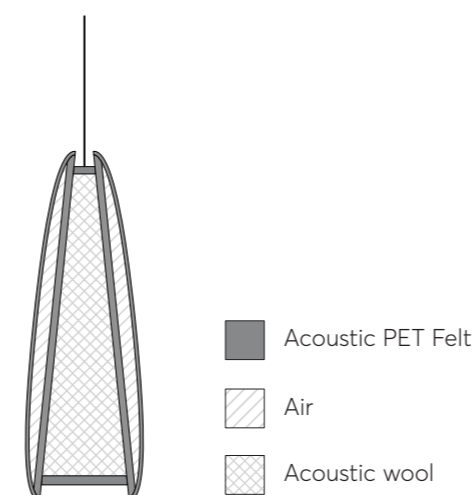
Inside Colors:



Outside Colors:



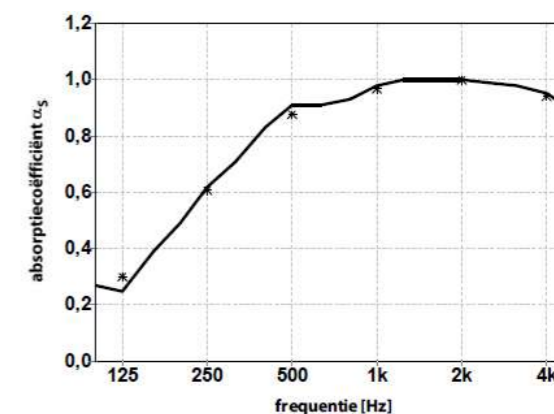
Acoustic specifications:



The product is designed with multiple layers of sound absorbing PET Felt and an air cavity in between. Because of the layered effect, the soundwaves are optimally absorbed by the fixture.

The LED element will reflect the soundwaves.

Measurement of sound absorption in a reverberation room According to ISO 354:2003



	0,27	0,49	0,83	0,93	1,00	0,98
1/3 oct.	0,25	0,62	0,91	0,98	1,00	0,95
	0,39	0,71	0,91	1,00	0,99	0,89
1/1 oct.	0,30	0,61	0,88	0,97	1,00	0,94

aw (ISO 11654) = 0,9

SAA (ASTM - C423) = 0,86

Macaron wall light 450



Macaron light wall 450

Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 Mounted with wall bracket
 1.5m black textile cable with dimmer with europlug

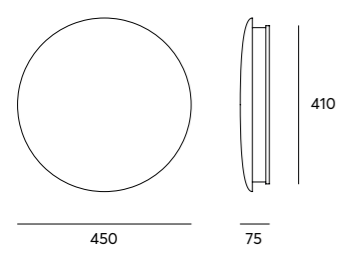
Lighting properties:

- Integrated LED
15W | 710lm
- Dimmable
Trailing edge (RC) | Dali
- CCT 2700 | 3000K | 4000K
- IP20

Acoustic properties:

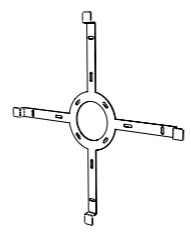
- High absorption
value of aw 0,6
- Diffusion

Measurements:



Total weight: 1,8kg

Mounting:



Inside Colors:

- 11_Fog Grey
- 07_Ghost White
- 30_Cool Grey
- 04_Bisque

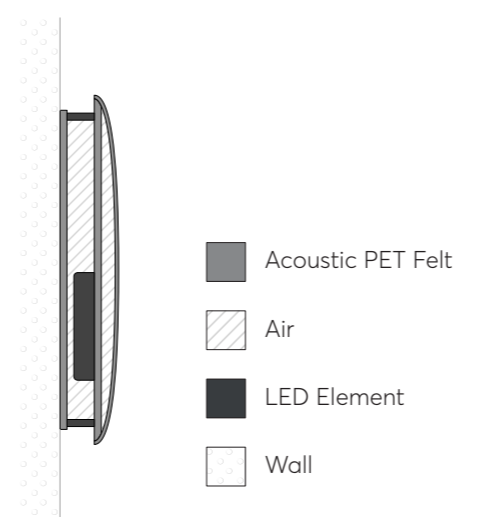
Outside Colors:

- 13_Black
- 03_Charcoal
- 36_Dim Grey
- 11_Fog Grey
- 07_Ghost White
- 19_Midnight
- 26_Ocean
- 42_Rock Blue
- 30_Cool Grey
- 12_Turquoise
- 17_Forest
- 40_Faded Jade
- 41_Mint Pastel
- 39_Warm Grey
- 04_Bisque
- 35_Ochre
- 05_Lemon
- 09_Lavender
- 31_Rosé
- 45_Chilli

Light source specifications:

LED power:	15W
Connection voltage:	220-240V AC
Luminous Flux:	710lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control/Dimmable:	Trailing edge (RC) Dali
Power factor:	48lm/W
Optics:	Acrylic diffusor
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra>90
UGR:	<10
Operating temperature:	-20 ~ +45

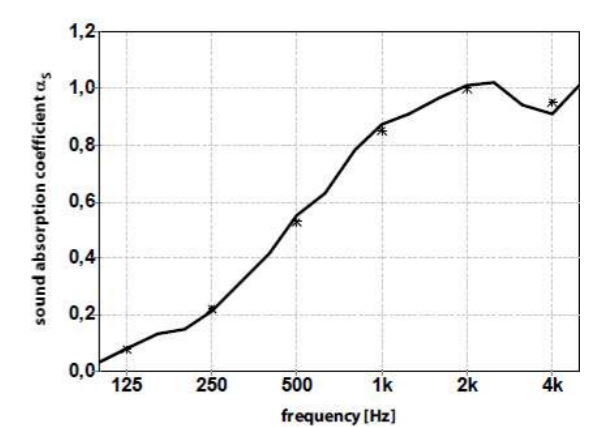
Acoustic specifications:



The product is designed with multiple layers of sound absorbing PET Felt and an air cavity in between. Because of the layered effect, the soundwaves are optimally absorbed by the fixture.

The LED element will reflect the soundwaves.

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



1/3 oct.	0,03	0,15	0,42	0,78	0,97	0,94
	0,08	0,21	0,55	0,87	1,01	0,91
	0,13	0,31	0,63	0,91	1,02	1,01
1/1 oct.	0,08	0,22	0,53	0,85	1,00	0,95

aw (ISO 11654) = 0,6

SAA (ASTM - C423) = 0,65

Macaron wall light 600



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 Mounted with wall bracket
 1.5m black textile cable with dimmer with europlug

Lighting properties:

Integrated LED
 21W | 960lm

Dimmable
 Trailing edge (RC) | Dali

CCT
 2700 | 3000K | 4000K

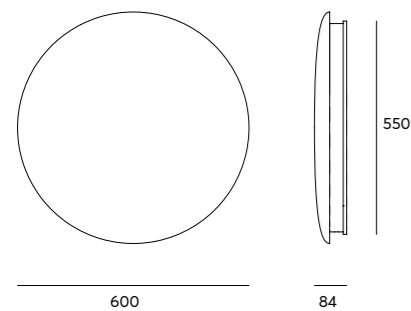
IP20

Acoustic properties:

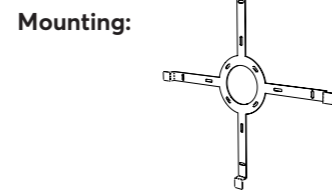
High absorption
 value of aw 0,6

Diffusion

Measurements:



Total weight: 2,5kg



Inside Colors:



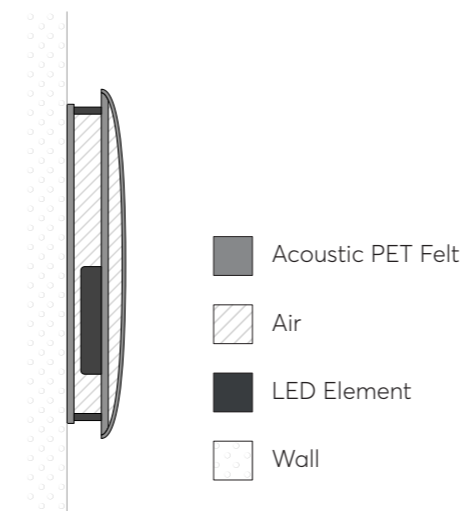
Outside Colors:



Light source specifications:

LED power:	21W
Connection voltage:	220-240V AC
Luminous Flux:	960lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control/Dimmable:	Trailing edge (RC) Dali
Power factor:	46lm/W
Optics:	Acrylic diffusor
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra>90
UGR:	<10
Operating temperature:	-20 ~ +45

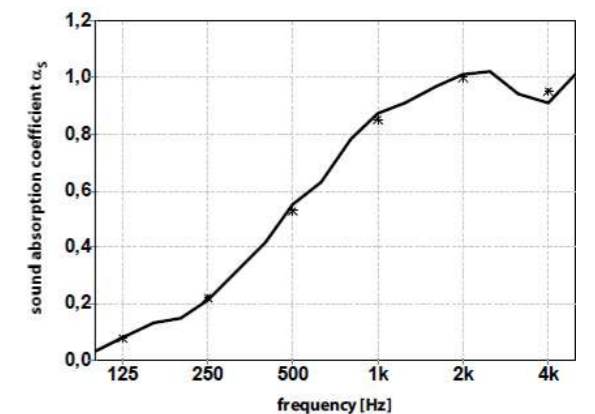
Acoustic specifications:



The product is designed with multiple layers of sound absorbing PET Felt and an air cavity in between. Because of the layered effect, the soundwaves are optimally absorbed by the fixture.

The LED element will reflect the soundwaves.

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



	0,03	0,15	0,42	0,78	0,97	0,94
1/3 oct.	0,08	0,21	0,55	0,87	1,01	0,91
	0,13	0,31	0,63	0,91	1,02	1,01
1/1 oct.	0,08	0,22	0,53	0,85	1,00	0,95

aw (ISO 11654) = 0,6

SAA (ASTM - C423) = 0,65

Macaron wall light 800



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 Mounted with wall bracket
 1.5m black textile cable with dimmer with europlug

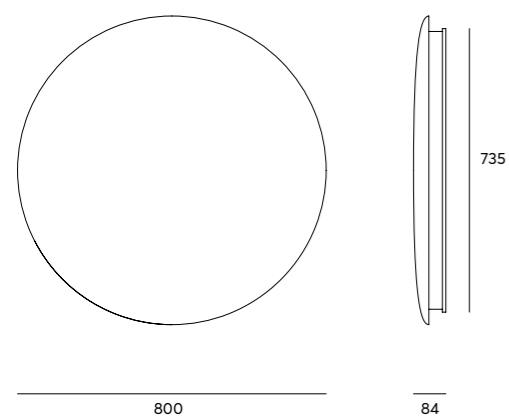
Lighting properties:

- Integrated LED
29W | 1330lm
- Dimmable
Trailing edge (RC) | Dali
- CCT 2700 | 3000K | 4000K
- IP20

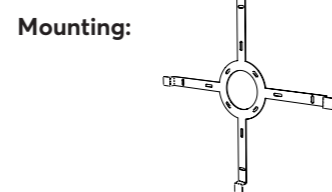
Acoustic properties:

- High absorption
value of α_w 0,6
- Diffusion

Measurements:



Total weight: 3,2kg



Inside Colors:



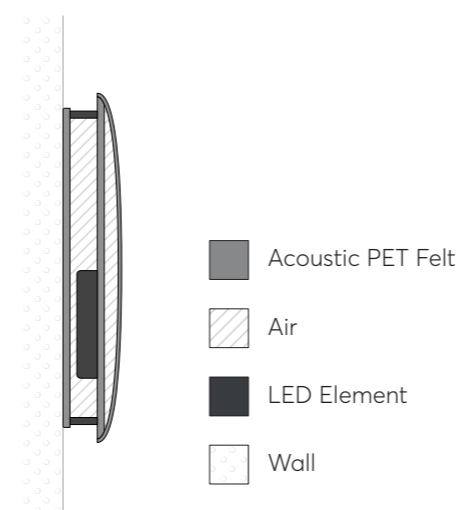
Outside Colors:



Light source specifications:

LED power:	29W
Connection voltage:	220-240V AC
Luminous Flux:	1330lm
Frequency:	47-63Hz
Driver:	Included/Integrated
Control/Dimmable:	Trailing edge (RC) Dali
Power factor:	46lm/W
Optics:	Acrylic diffusor
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra>90
UGR:	<10
Operating temperature:	-20 ~ +45

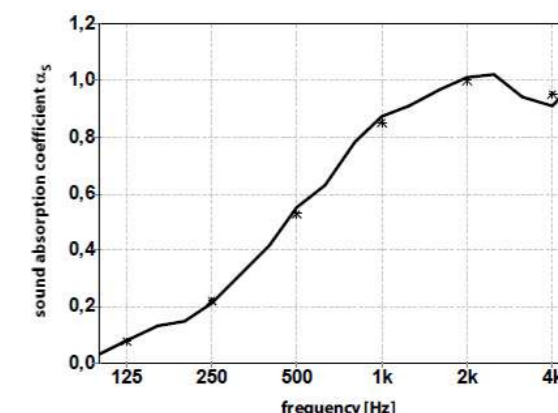
Acoustic specifications:



The product is designed with multiple layers of sound absorbing PET Felt and an air cavity in between. Because of the layered effect, the soundwaves are optimally absorbed by the fixture.

The LED element will reflect the soundwaves.

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



	0,03	0,15	0,42	0,78	0,97	0,94
1/3 oct.	0,08	0,21	0,55	0,87	1,01	0,91
	0,13	0,31	0,63	0,91	1,02	1,01
1/1 oct.	0,08	0,22	0,53	0,85	1,00	0,95

α_w (ISO 11654) = 0,6

SAA (ASTM - C423) = 0,65

Macaron acoustic wall



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

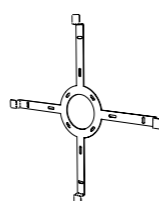
Fixture:
 Mounted with wall bracket

Acoustic properties:

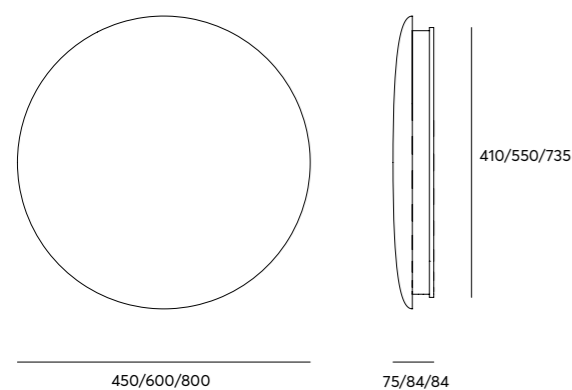
- High absorption value of α_w 1,0
- Diffusion

Total weight: 1,8kg / 2,5kg / 3,2kg

Mounting:



Measurements:



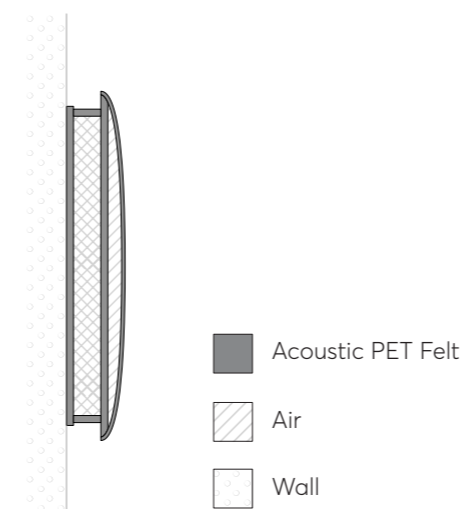
Inside Colors:



Outside Colors:

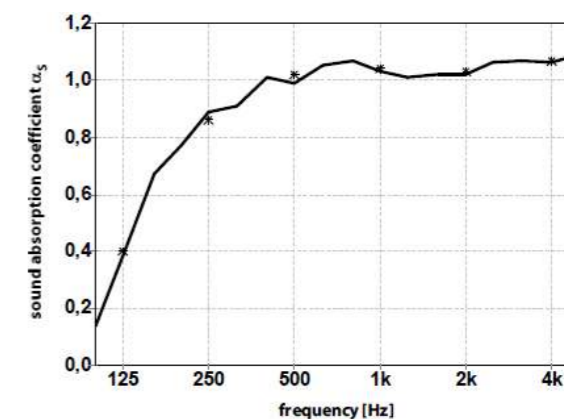


Acoustic specifications:



The product is designed with multiple layers of sound absorbing PET Felt and an air cavity in between. Because of the layered effect, the soundwaves are optimally absorbed by the fixture.

Measurement of sound absorption in a reverberation room According to ISO 354:2003



	0,14	0,77	1,01	1,07	1,02	1,07
1/3 oct.	0,38	0,89	0,99	1,03	1,02	1,06
	0,67	0,91	1,05	1,01	1,06	1,09
1/1 oct.	0,40	0,86	1,02	1,04	1,03	1,07

aw (ISO 11654) = 1,0

SAA (ASTM - C423) = 0,97

Twist



Twist is a soundabsorbing tornado. The direct downlight radiates a high light output from its acoustic body. Due to the massiveness and curled shape of the lamp, Twist scores high in its absorption and diffusion value.



Twist low



Twist mid



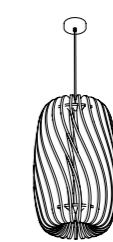
Twist high



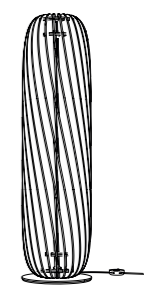
Twist XL low



Twist XL mid



Twist XL high



Twist light floor



Twist acoustic floor



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 1,5m black textile cable
 Black ceiling cap

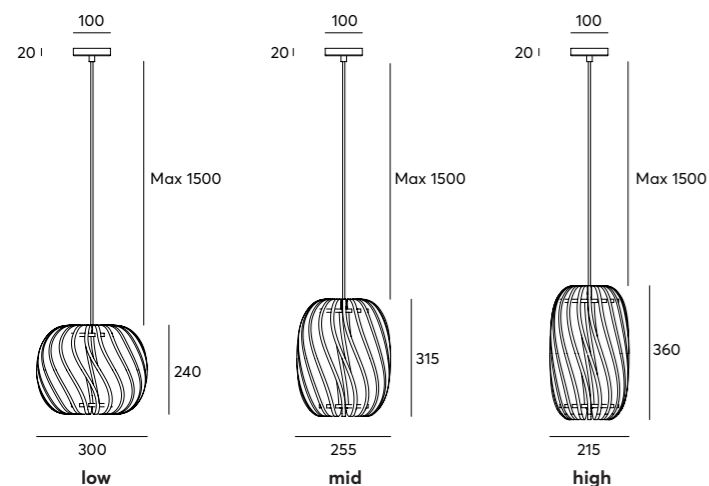
Lighting properties:

Integrated LED
 9W | 500lm
 Dimmable
 Trailing edge (RC)
 (Dali Phase cut dim Add On)
 CCT 2700 | 3000K | 4000K
 IP20

Acoustic properties:

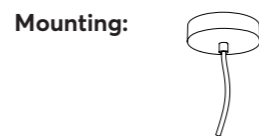
0,42 m² of acoustic absorption
 material of aw 0,45
 Diffusion due to the 'tornado' design

Measurements:



Total weight gross | net: 1,9kg | 1,2kg

Parcel size: 300x300x450mm



Colors:

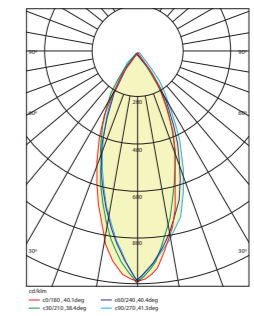


Light source specifications:



LED power:	6W
Connection voltage:	220-240V AC
Luminous Flux:	400lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge
Power factor:	66lm/W
Beam of light:	40°
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra >80
UGR:	<17
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

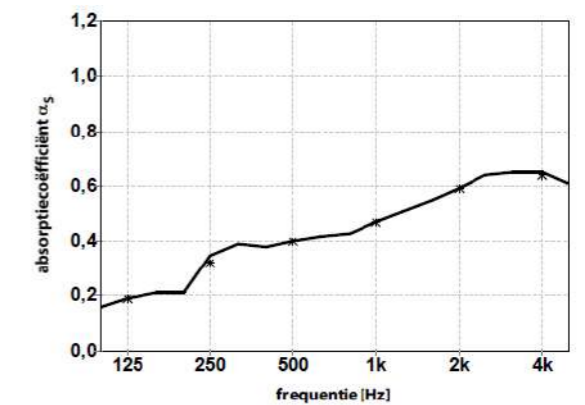
Twist is designed to function as an acoustic spot light. Twist can be combined in multiple shapes and clustered with the big brother "Twist XL". This way more sound absorbing mass makes more acoustic impact.

Calculated acoustic surface area: 0,42 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 1,5m black textile cable
 Black ceiling cap

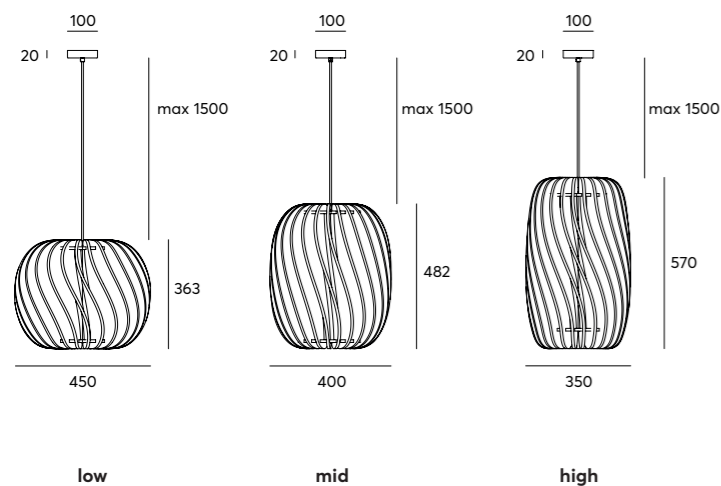
Lighting properties:

Integrated LED
 9W | 500lm
 Dimmable
 Trailing edge (RC)
 (Dali Phase cut dim Add On)
 CCT 2700 | 3000K | 4000K
 IP20

Acoustic properties:

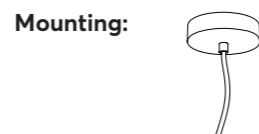
1,2 m² of acoustic absorption
 material of aw 0,45
 Diffusion due to the 'tornado' design

Measurements:



Total weight gross | net: 3,1kg | 2,4kg

Parcel size: 480x480x600mm



Colors:

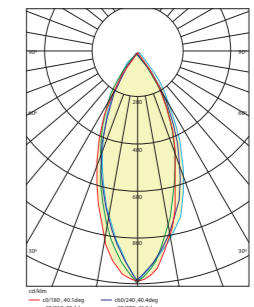


Light source specifications:



LED power:	9W
Connection voltage:	220-240V AC
Luminous Flux:	500lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge
Power factor:	60lm/W
Beam of light:	40°
CCT Color temperature:	2700K 3000K 4000K
CRI:	Ra >80
UGR:	<17
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle

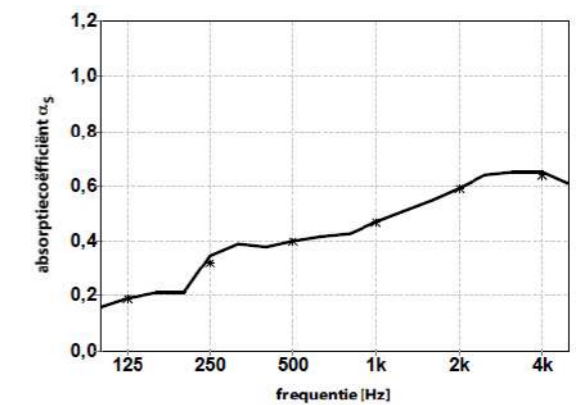
Twist is designed to function as an acoustic spot light. Twist can be combined in multiple shapes and clustered with the small brother "Twist". This way more sound absorbing mass makes more acoustic impact.

Calculated acoustic surface area: 1,2 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable with floor switch and europlug
 With metal inside and base plate

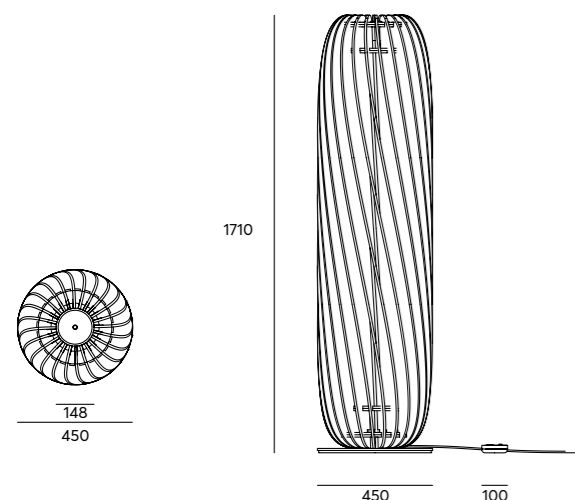
Lighting properties:

- Integrated LED 30W | 3115lm
- Dimmable Floor dimmer included
- CCT 3000K | 4000K
- IP20

Acoustic properties:

- 5,54 m² of acoustic absorption material of aw 0,45
- Diffusion due to the 'tornado' design

Measurements:



Total weight gross | net: 27,2kg | 25,7kg

Parcel size: 480x480x1750mm

Mounting: Free standing with Europlug

Colors:

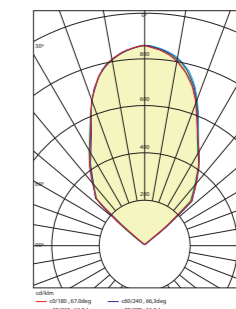


Light source specifications:



LED power:	30W
Connection voltage:	220-240V AC
Luminous Flux:	3115lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge
Power factor:	104lm/W
Beam of light:	60°
CCT Color temperature:	3000K 4000K
CRI:	Ra >80
UGR:	<16
Operating temperature:	-20 ~ +45

Photometrics:
 Lumen intensity distribution



Acoustic specifications:

The acoustic design principle.

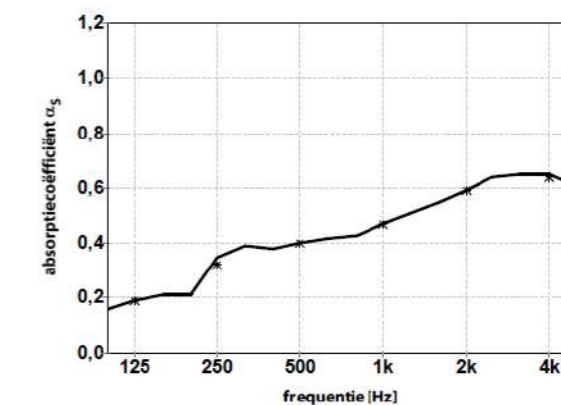
Twist floor is an acoustic standing light. When placed in larger open spaces where soundwaves can travel freely, Twist floor reduces the reverberation time. Place Twist floor in corners or nearby hard materials in noisy places. Twist floor works well as a bass absorber.

Calculated acoustic surface area: 5,54 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt sound absorption calculation in a reverberation room



	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 Metal inside and base plate

Acoustic properties:

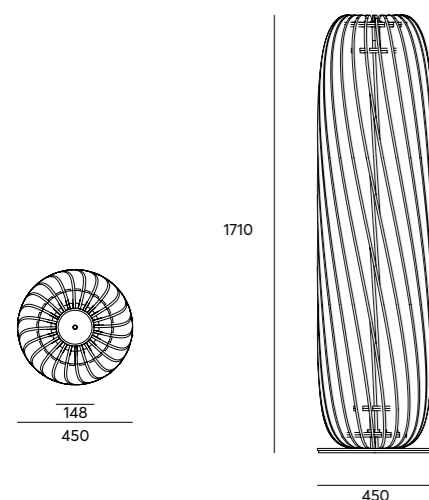


5,54 m² of acoustic absorption material of aw 0,45



Diffusion due to the 'tornado' design

Measurements:



Total weight gross | net: 26,7kg | 25,1kg

Parcel size: 480x480x1750mm

Mounting: Free standing with Europlug

Colors:



Acoustic specifications:

The acoustic design principle.

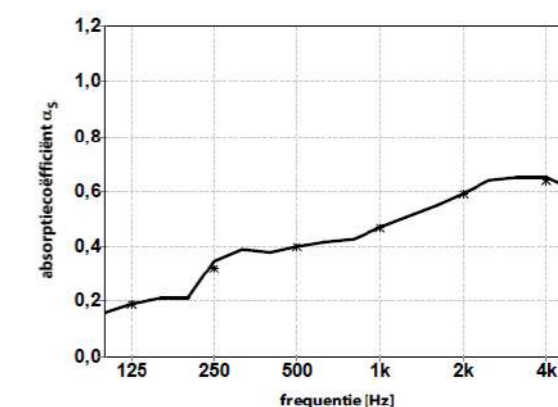
Twist floor is an acoustic standing light. When placed in larger open spaces where soundwaves can travel freely, Twist floor reduces the reverberation time. Place Twist floor in corners or nearby hard materials in noisy places. Twist floor works well as a bass absorber.

Calculated acoustic surface area: 5,54 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
 sound absorption calculation in a reverberation room

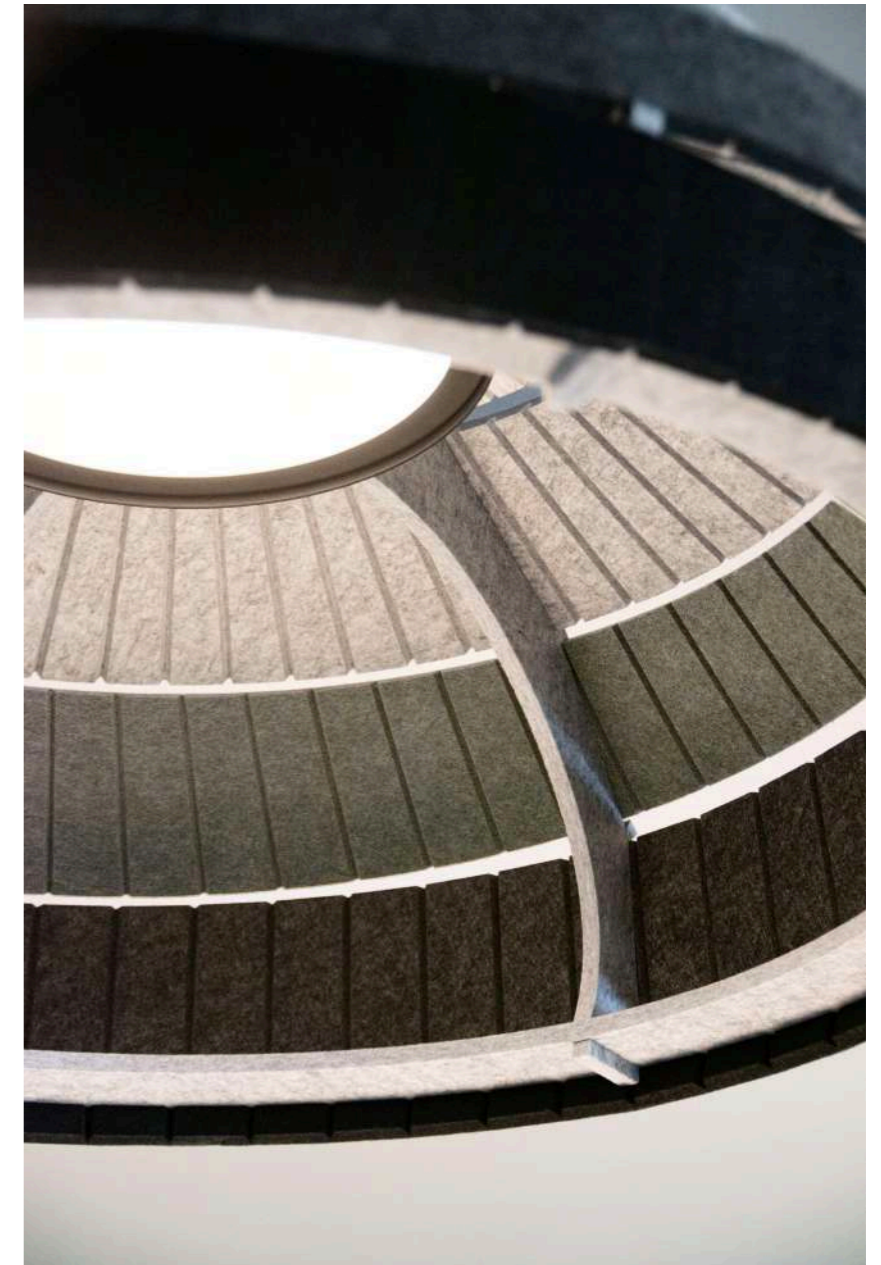


	125	250	500	1k	2k	4k
	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64

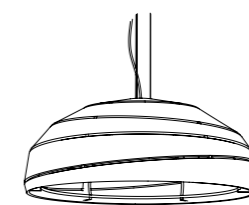
Sliced

The acoustic lamp Sliced is designed in search of the possibilities to bend the flat material PET Felt. By cutting into the material, the PET Felt becomes flexible and docile. The "sliced" layers of PET Felt are draped over the fixture like a shell.

Sliced comes in a single color or in a grey combination. The shade provides direct light and an exciting indirect light between the "shells". Both the outside and inside of the lamp have their own character, with the construction being an integral part of the design.



Sliced is an original PET Felt design, stylish and sound absorbing.



Sliced



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 2m black textile cable
 3 black metal wires with adjustable griplock
 Black ceiling cap

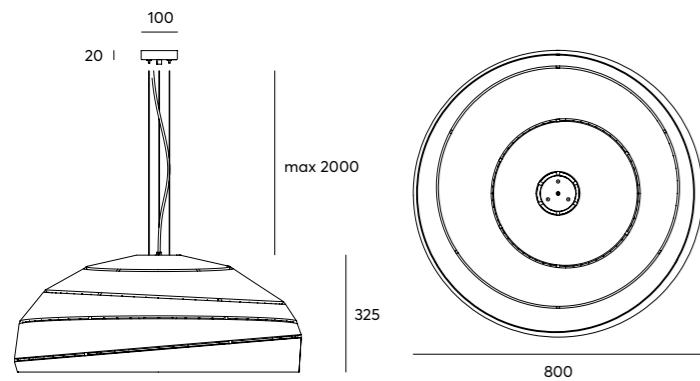
Lighting properties:

Integrated LED
 17W | 1850lm
 Dimmable
 Trailing edge (RC) | Dali
 CCT 2700 | 3000K | 4000K
 TW 2700-6500K
 IP20

Acoustic properties:

0,85 m² of acoustic absorption
 material of aw 0,45
 Diffusion due to the rounded design

Measurements:



Total weight: 2,8kg



Colors:

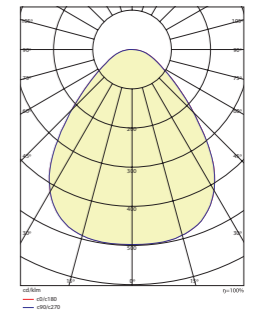
13_Black 03_Charcoal 36_Dim Grey 11_Fog Grey 07_Ghost White 19_Midnight 26_Ocean 30_Cool Grey 41_Mint Pastel
 17_Forest 40_Faded Jade 06_Olive 39_Warm Grey 04_Bisque 35_Ochre 45_Chilli 09_Lavender 31_Rosé
 GF_Grey Fade

Light source specifications:



LED power:	17W
Connection voltage:	220-240V AC
Luminous Flux:	1850lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	109lm/W
Optics Beam of light:	Acrylic Opal Prism 85°
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra >80
UGR:	<22
Operating temperature:	-20 ~ +45

Photometrics:
Lumen intensity distribution



Acoustic specifications:

The acoustic design principle

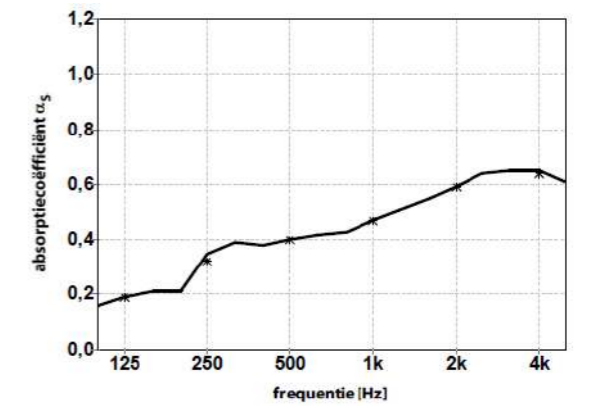
Sliced is designed to hang above places where the sound is produced. Because of its large inside space sound is absorbed directly from the source.

Calculated acoustic surface area: 0,85 m²

aw (ISO 11654) = 0,45

SAA (ASTM - C423) = 0,45

Measurement of 9mm free hanging PET Felt
sound absorption calculation in a reverberation room



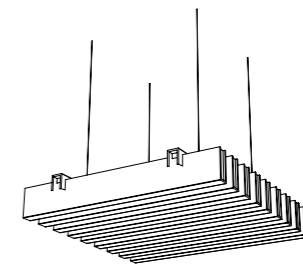
	0,16	0,21	0,38	0,43	0,55	0,65
1/3 oct.	0,19	0,35	0,40	0,47	0,59	0,65
	0,21	0,39	0,42	0,51	0,64	0,61
1/1 oct.	0,19	0,32	0,40	0,47	0,59	0,64



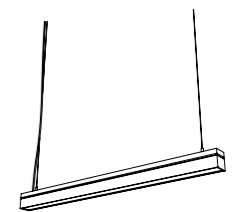
Bold

Bold is engineered for versatility, the revolutionary ceiling system with integrated lighting and its modular design allows for easy customization. Whether it's a commercial establishment or a public venue, Bold effortlessly adapts to various environments, creating the perfect ambiance in both lighting and acoustics.

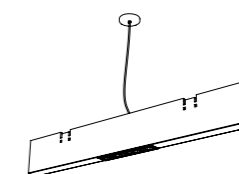
**Acoustic ceiling covering
and lighting in one!**



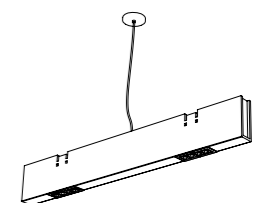
Bold Acoustic
(base)



Bold Line
(Add-on)



Bold Spot
(Add-on)



Bold duo Spot
(Add-on)



Material:
 PET Felt (polyethylene terephthalate)
 Fireclass: EN13501-1 Class B
 Produced in The Netherlands

Fixture:
 Metal inside and base plate

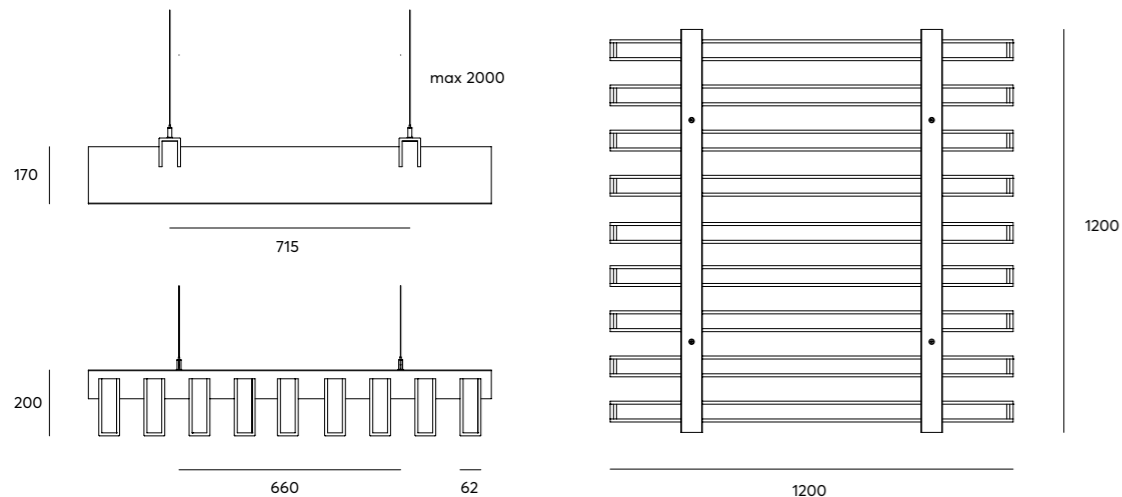
Acoustic properties:

- High absorption value of α_w 1.0
- Diffusion

Total weight: 9,9kg

Mounting: 4x

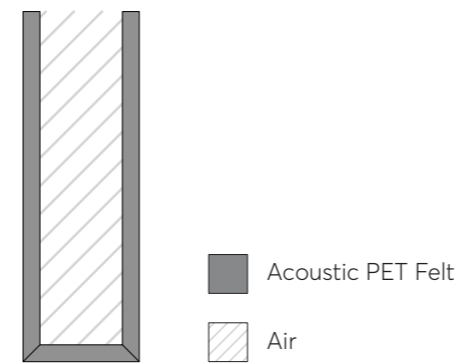
Measurements:



Colors:



Acoustic specifications:

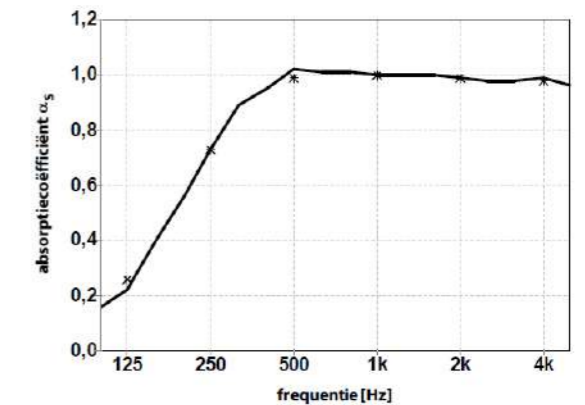


The product is designed as a baffle near the ceiling where soundwaves can travel freely. Because of the the multiple layered PET Felt body with air pockets in between, the soundwaves keep hitting the PET Felt, what results in an almost complete absorption of the sound that enters the product.

When hung about 30cm below the ceiling, the acoustic properties of Bold will be at its best. Sound will enter the acoustic product from below and from above due to reflection of the ceiling, doubling the surface earea of the product.

Bold is **the** acoustic solution for open plan offices with long reverberation time.

Measurement of sound absorption in a reverberation room
 According to ISO 354:2003



	125	250	500	1k	2k	4k
1/3 oct.	0,16	0,56	0,95	1,01	1,00	0,98
	0,22	0,73	1,02	1,00	0,99	0,99
	0,41	0,89	1,01	1,00	0,98	0,96
1/1 oct.	0,26	0,73	0,99	1,00	0,99	0,98

aw (ISO 11654) = 1,00

SAA (ASTM - C423) = 0,93

Bold Spot **Add-On**

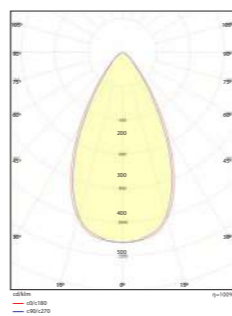


Light source specifications:

LED power:	15W
Connection voltage:	220-240V AC
Luminous Flux:	950lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	63lm/W
Optics Beam of light:	Cubical recessed lens 55°
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra >98
UGR:	<19
Operating temperature:	-20 ~ +45

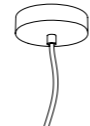
Photometrics:

Lumen intensity distribution



Added weight: 0,8kg

Size spot: 303x62mm

Mounting: 1x 
2m cable

Bold duo Spot **Add-on**

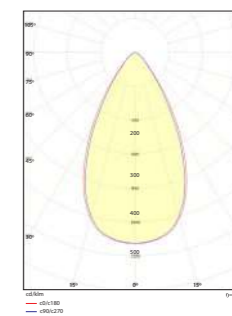


Light source specifications:

LED power:	2x 8W
Connection voltage:	220-240V AC
Luminous Flux:	2x 470lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	59lm/W
Optics Beam of light:	Cubical recessed lens 55°
CCT Color temperature:	2700K 3000K 4000K TW2700-6500
CRI:	Ra >98
UGR:	<19
Operating temperature:	-20 ~ +45

Photometrics:

Lumen intensity distribution



Added weight: 0,9kg

Size spot: 2x 163x62mm

Mounting: 1x 
2m cable

Bold Line Add-on

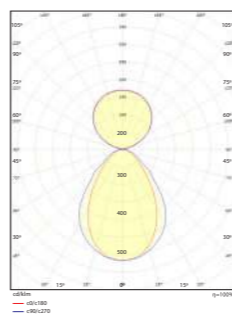


Light source specifications:



LED power:	44W
Connection voltage:	220-240V AC
Luminous Flux:	5100lm
Frequency:	47-63Hz
Driver:	Included Integrated
Control Dimmable:	Trailing Edge Dali
Power factor:	116lm/W
Optics Beam of light:	Cubical recessed lens 55°
CCT Color temperature:	3000K 4000K
CRI:	Ra >80
UGR:	<19
Operating temperature:	-20 ~ +45

Photometrics: Lumen intensity distribution



- Added weight:** 5,0kg
- Size Fixture:** 1164x64x80mm
- Connecting:** Europlug
2m cable
- Mounting:** 2x
2m metal wire



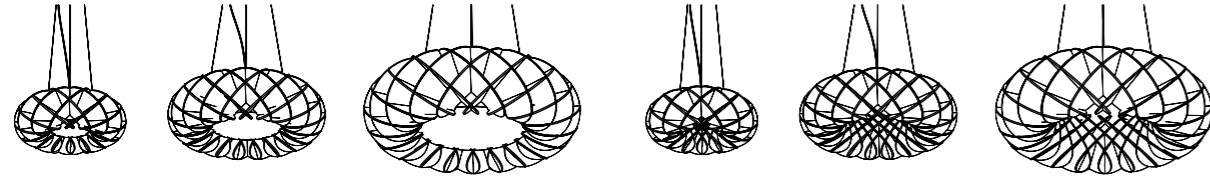
Quick overview

Halo

About:

Available in 3 sizes. Available as a lighting and acoustic model.

Main material: PET Felt.



Halo light 700

Halo light 1000

Halo light 1400

Halo acoustic 700

Halo acoustic 1000

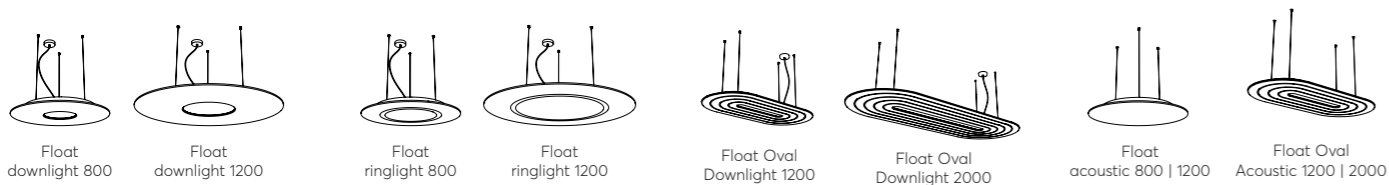
Halo acoustic 1400

Float

About:

Available in 2 sizes. Available as a lighting (downlight, uplight or ringlight) and acoustic model.

Main material: PET Felt. Hood always in Charcoal.



Float downlight 800

Float downlight 1200

Float ringlight 800

Float ringlight 1200

Float Oval Downlight 1200

Float Oval Downlight 2000

Float acoustic 800 | 1200

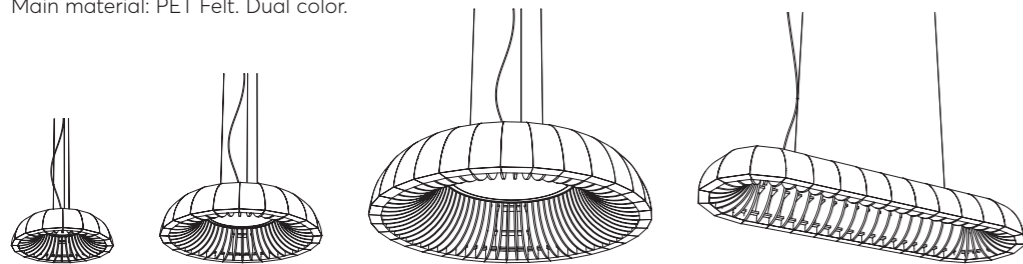
Float Oval Acoustic 1200 | 2000

Toad

About:

Available in 4 sizes. Only available as a lighting model.

Main material: PET Felt. Dual color.



Toad 750

Toad 1000

Toad 1500

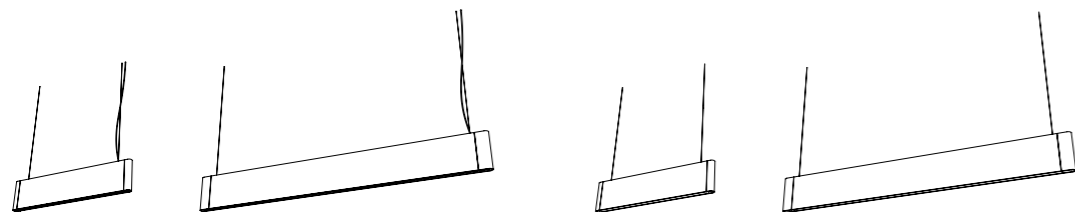
Toad 1750 long

Line

About:

Available in 2 lengths and 3 heights. Available as a lighting and acoustic model.

Main material: PET Felt. Inside always in Black



Line light single

Line light double

Line acoustic single

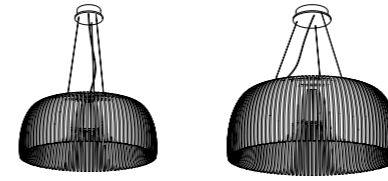
Line acoustic double

Breeze

About:

Available in 2 sizes only as lighting model. Breeze 800 as downlight | Breeze 1000 up and downlight

Main material: PET Felt.



Breeze 800

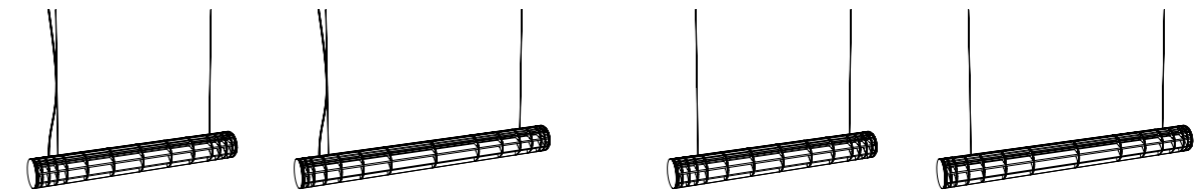
Breeze 1000

Column

About:

Available in 3 sizes. Available as a lighting and acoustic model.

Main material: PET Felt.



Column light 1600

Column light 2000

Column acoustic 1600

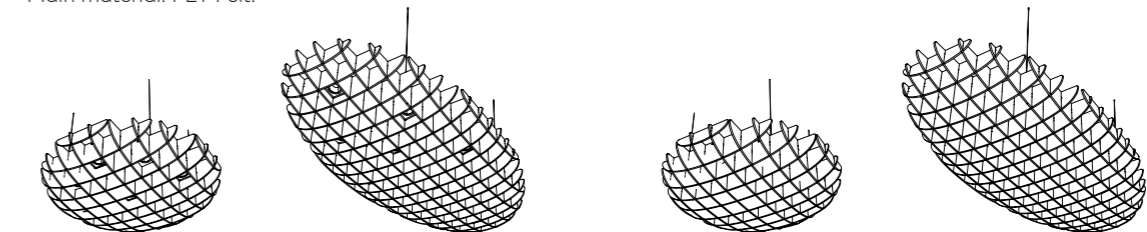
Column acoustic 2000

Cloud

About:

Available in 2 sizes. Available as a lighting and acoustic model.

Main material: PET Felt.



Cloud light round

Cloud light oval

Cloud acoustic round

Cloud acoustic oval

Cone

About:

Available in 2 sizes and only as a lighting model.

Main material: PET Felt. Dual color.



Cone light 750

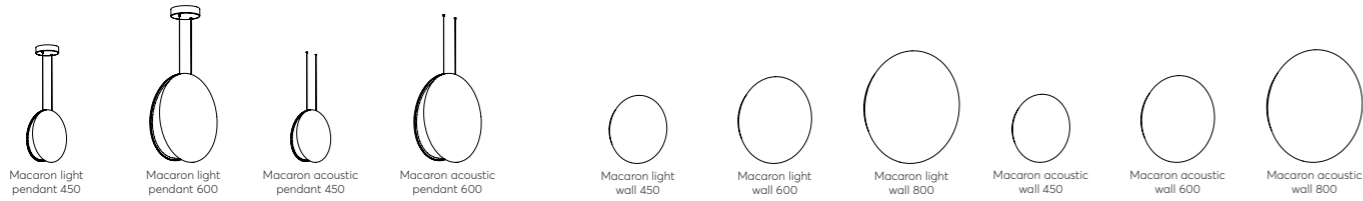
Cone light 1000

Quick overview

Macaron Pendant & Wall

About:

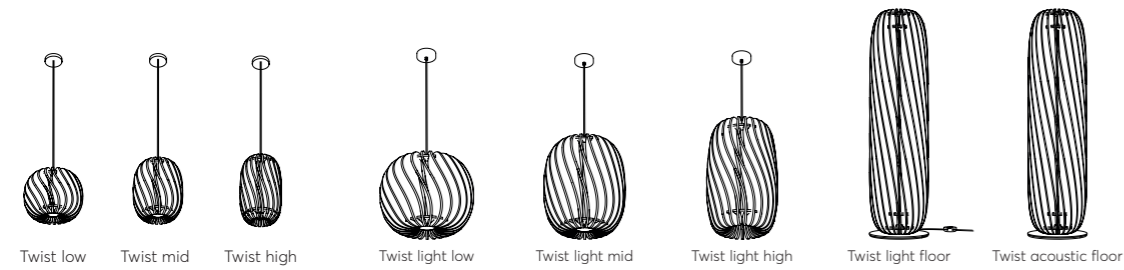
Available in 3 sizes. Available as a lighting and acoustic model as a pendant or wall model.
Main material: PET Felt.



Twist & Twist Floor

About:

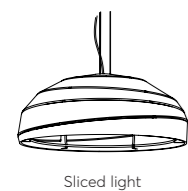
Available in 6 sizes as pendant and 1 size floor model. Available as a lighting and acoustic model (only floor).
Main material: PET Felt.



Sliced

About:

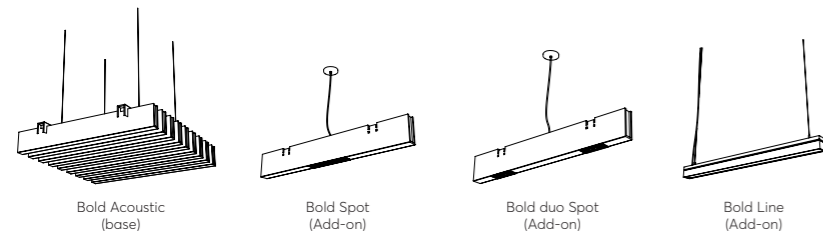
Available in 1 size and only as a lighting model.
Main material: PET Felt. Single or fade color.



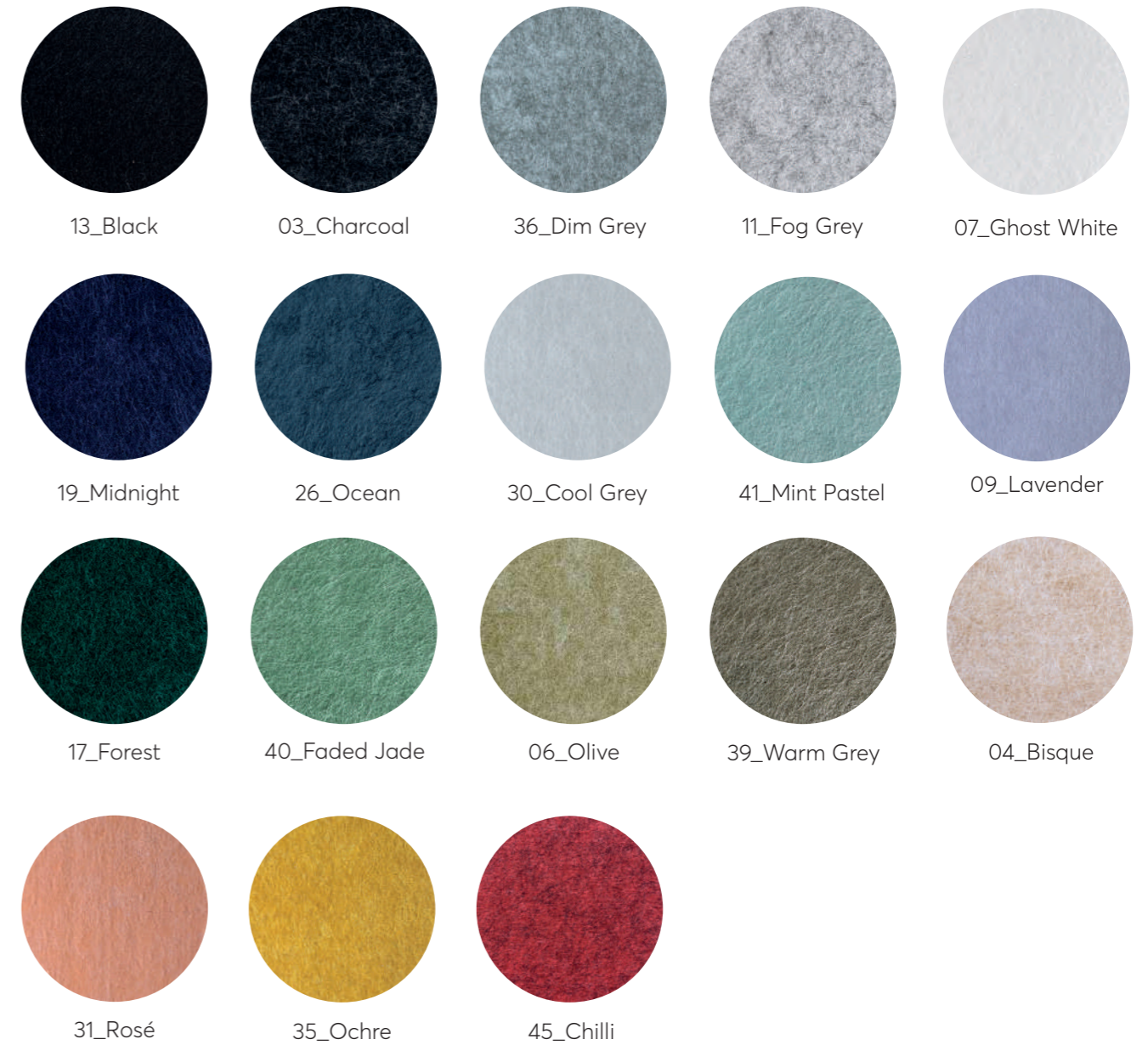
Bold

About:

Starting with Bold acoustic base as acoustic baffle. Modular add 3 different light options to the base
Main material: PET Felt. Single color.



PET Felt color overview



Technical information:

Composition:

PET Felt 100% polyester (Polyethylene Terephthalate).

Environmental:

Minimum 60% Post consumer recycled PET. Recycled and recyclable

Flammability:

EN 13501-1 Class B
ASTM E84-2018 Class A
BS476-7 Class 1Y

Cleaning:

Remove contaminants as quickly as possible

1. Clean dust from PET Felt with a vacume cleaner
2. PET Felt cleans effortlessly with just water of a soft brush, no need for detergents.
3. Gently dab the panel using a damp coloth; avoid rubbing
4. If water alone doesn't suffice, high-quality cleaning products can tack tougher stains. Test first on a less noticable part of the PET Felt.
5. Allow it to air dry naturally

lumēnear

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