

zenithinteriors.com

UMBRA Round Acoustic Light

Zenith

Features:
An impressive acoustic lighting luminaire that lights up anything from conferences room to communal dining spaces. As the long, rounded silhouette suspends from the ceiling, it creates an intimate atmosphere and contributes a sheltering feeling of home along with an extra touch of cosy.

Design: IMPACT ACOUSTIC

Options:
- Acoustic panel booster made of felt for additional acoustic absorbtion.

Environmental:
- Cradle to Cradle Certified™
- Product qualifies for LEED v4 specifications on VOC emissions in LEED EQ credit
- SUPPORTED BY CLIMATE KIC

Warranty: 12 year product & 2 year lighting

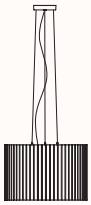
Finishes:
100% PET (min. 60% post-consumer)
ARCHISONIC® is a high-performance sustainable acoustic absorber made from up-cycled plastic bottles.
ARCHISONIC® is manufactured at the highest quality standards, yet slight colour and surface deviations caused by the high degree of recycled fiber are an inevitable part of the product characteristics and do not claim warranty services.
Material varies in colour when shown in monitor or in print.

ARCHISONIC:

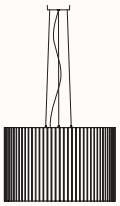
Shell Pink 102	Jute 920	Soft Coral 516	Ice Blue 304	Winter Sky 410	Spearmint 706
Succulent 712	Pacific Ocean 432	Marine Blue 864	Deep Sea 918	Midnight 810	True Navy 194
Moss 439	Grove 317	Nordic Pine 311	Fern 180	Sunshine 846	Honeycomb 139
Terracotta 239	Electric Orange 464	Hot Pink 140	Poster Red 662	Grape 540	Garnet 724
Warm Stone 105	Linen 107	Lichen 160	Snow White 500	Cloud 103	Milk 404
Gull 144	Smoke 442	Ground 108	Slate 444	Charcoal 542	Raven 550

Dimensions

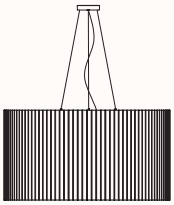
Umbra LED Disc Acoustic Lighting



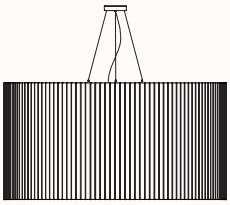
SMALL
722.12.36
Dia 600mm
OH 400mm



MEDIUM
722.12.37
Dia 800mm
OH 530mm



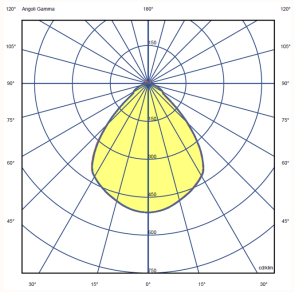
LARGE
722.12.38
Dia 1200mm
OH 650mm



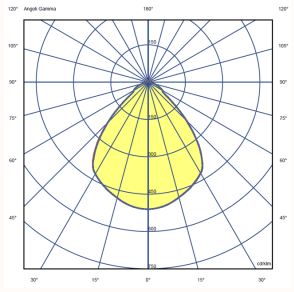
EXTRA LARGE
722.12.39
Dia 1600mm
OH 850mm

Lighting Distribution Graph:

Umbra
Small & Medium



Umbra
Large & Extra Large



Lighting Specification:

Model722.12.36 | 722.12.37

Output:	Direct
Wattage (W):	27
CCT (K):	3000 | 4000
Lumen LED source (lm):	2850 | 2920
Total Lumen Output (lm):	1945 | 1995
Efficacy (lm/W):	72 | 74
Diffuser:	Opal
Dimming:	DALI
CRI:	90
Voltage (V):	220 - 240
Driver Location:	On-Board

Model 722.12.38 | 722.12.39

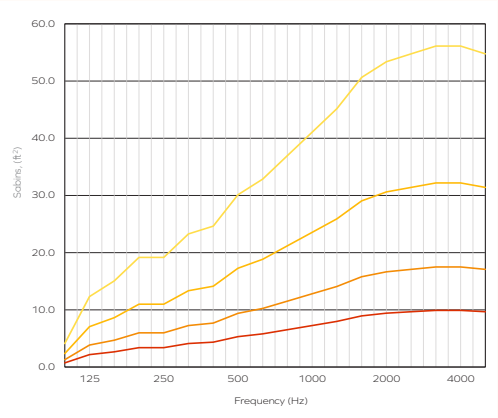
Output:	Direct
Wattage (W):	55
CCT (K):	3000 | 4000
Lumen LED source (lm):	7250 | 7655
Total Lumen Output (lm):	4910 | 4989
Efficacy (lm/W):	90 | 92
Diffuser:	Opal
Dimming:	DALI
CRI:	90
Voltage (V):	220 - 240
Driver Location:	On-Board

LED Disc Acoustic Performance

University of Stuttgart
Germany

Testing Standards

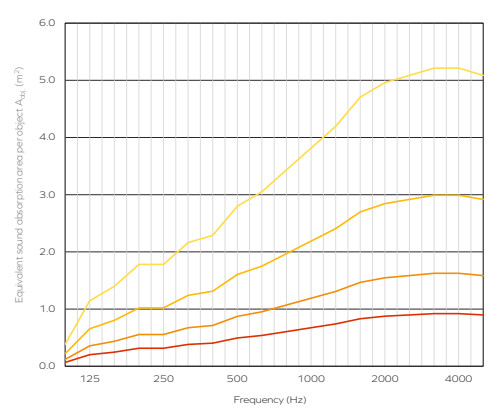
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ISO 20189:2018	Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound reduction of elements based on laboratory measurements
ASTM C423-17	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ASTM E795-16	Standard Practices for Mounting Test Specimens During Sound Absorption Tests



Acoustic Performance - ASTM Sabins , ft^2

Frequency (Hz)	125	250	500	1000	2000	4000
12mm Umbra Round (Small)	2.15	3.23	5.38	7.53	9.69	9.69
12mm Umbra Round (Medium)	3.23	6.46	8.61	12.92	16.15	17.22
12mm Umbra Round (Large)	6.46	11.84	17.22	23.68	30.14	32.29
12mm Umbra Round (Extra Large)	10.76	20.45	29.06	40.90	52.74	55.97

The graph represents the Sabins (ft^2) in the third octave band center frequencies in accordance with ASTM C423.



Acoustic Performance - ISO A_{obj} , m^2

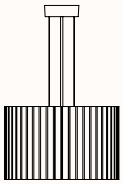
Frequency (Hz)	125	250	500	1000	2000	4000
12mm Umbra Round (Small)	0.2	0.3	0.5	0.7	0.9	0.9
12mm Umbra Round (Medium)	0.3	0.6	0.8	1.2	1.5	1.6
12mm Umbra Round (Large)	0.6	1.1	1.6	2.2	2.8	3.0
12mm Umbra Round (Extra Large)	1.0	1.9	2.7	3.8	4.9	5.2

The graph represents the equivalent sound absorption per object (A_{obj}) in the third octave band center frequencies in accordance with ISO 20189. Measurement used Pink Noise as excitation signal in a reverberant room.

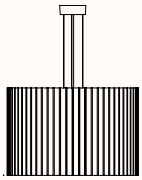
- 12mm Umbra Round (Small)
- 12mm Umbra Round (Medium)
- 12mm Umbra Round (Large)
- 12mm Umbra Round (Extra Large)

Dimensions

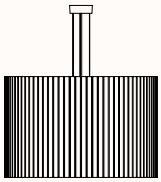
Umbra Retrofit Acoustic Lighting



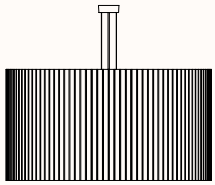
EXTRA SMALL
622.13.14
Dia 400mm
OH 270mm



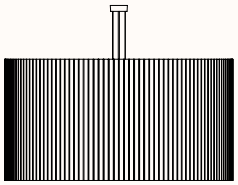
SMALL
622.13.15
Dia 600mm
OH 400mm



MEDIUM
622.13.16
Dia 800mm
OH 530mm

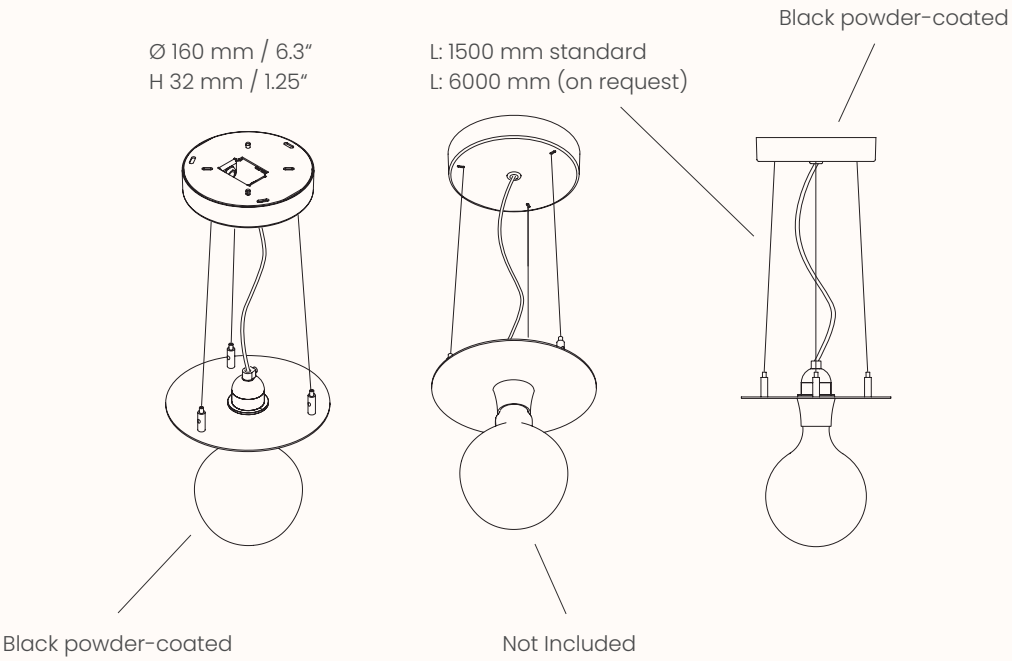


LARGE
622.13.17
Dia 1200mm
OH 650mm



EXTRA LARGE
622.13.18
Dia 1600mm
OH 850mm

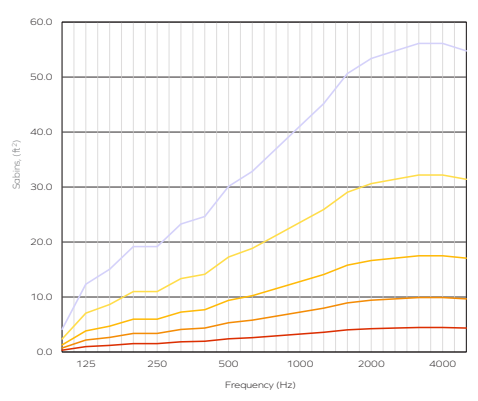
Lighting Specification:
Wattage Max: 20
Voltage: 110V - USA | 220V Global
Lampholder: 1x E26 | 1x E27
Bulb not included:



University of Stuttgart
Germany

Testing Standards

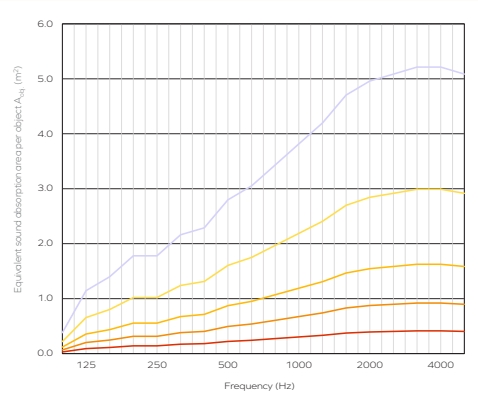
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Acoustic Performance - ASTM Sabins , ft^2

Frequency (Hz)	125	250	500	1000	2000	4000
12mm Umbra Round (Extra Small)	1.08	2.15	2.15	3.23	4.31	4.31
12mm Umbra Round (Small)	2.15	3.23	5.38	7.53	9.69	9.69
12mm Umbra Round (Medium)	3.23	6.46	8.61	12.92	16.15	17.22
12mm Umbra Round (Large)	6.46	11.84	17.22	23.68	30.14	32.29
12mm Umbra Round (Extra Large)	10.76	20.45	29.06	40.90	52.74	55.97

The graph represents the Sabins (ft^2) in the third octave band center frequencies in accordance with ASTM C423.



Acoustic Performance - ISO A_{obj} , m^2

Frequency (Hz)	125	250	500	1000	2000	4000
12mm Umbra Round (Extra Small)	0.1	0.2	0.2	0.3	0.4	0.4
12mm Umbra Round (Small)	0.2	0.3	0.5	0.7	0.9	0.9
12mm Umbra Round (Medium)	0.3	0.6	0.8	1.2	1.5	1.6
12mm Umbra Round (Large)	0.6	1.1	1.6	2.2	2.8	3.0
12mm Umbra Round (Extra Large)	1.0	1.9	2.7	3.8	4.9	5.2

The graph represents the equivalent sound absorption per object (A_{obj}) in the third octave band center frequencies in accordance with ISO 20189. Measurement used Pink Noise as excitation signal in a reverberant room.

- 12mm Umbra Round (Extra Small)
- 12mm Umbra Round (Small)
- 12mm Umbra Round (Medium)
- 12mm Umbra Round (Large)
- 12mm Umbra Round (Extra Large)