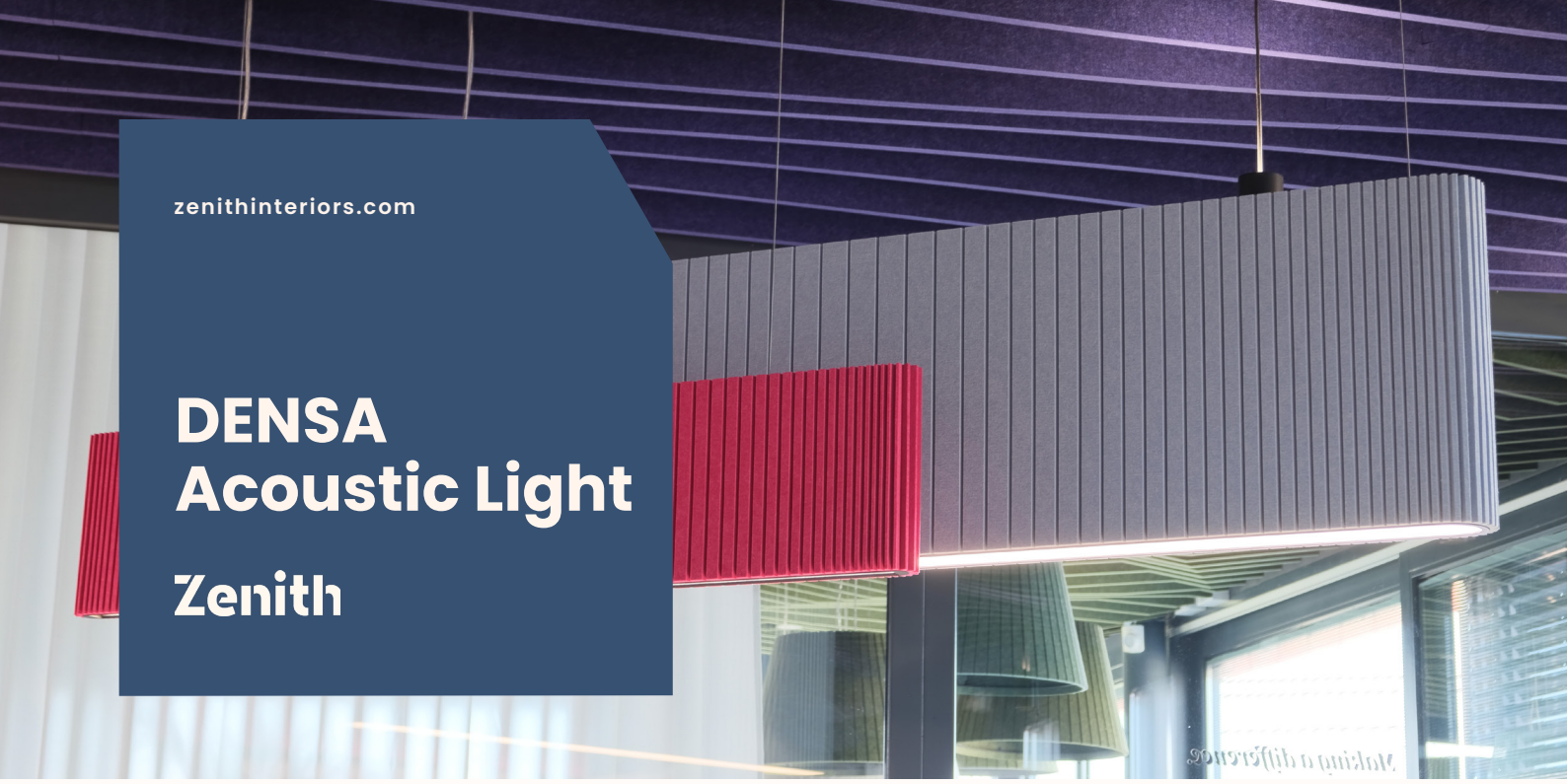


zenithinteriors.com

DENSA Acoustic Light

Zenith

Features:
Densa's light source produces extremely uniform and saturated light. Light in its purest form, combined with acoustics and a timeless, subtle design.

Design: IMPACT ACOUSTIC

Environmental:
- Cradle to Cradle Certified™
- Product qualifies for LEED v4 specifications on VOC emissions in LEED EQ credit
- VOC Emission 14 DAYS CDPH/EHLB PASS, ISO 105-B02:A1 (Class 6)

Warranty: 12 year product & 2 year lighting

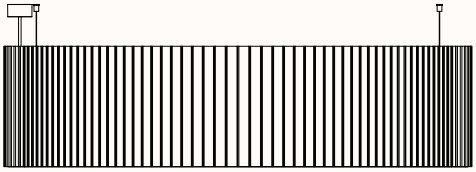
Finishes:
100% PET (min. 60% post-consumer)
ARCHISONIC® is a high-performance sustainable acoustic absorber made from up-cycled plastic bottles.
ARCHISONIC® is manufactured at the highest quality standards, yet slight colour and surface deviations caused by the high degree of recycled fibre are an inevitable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

Finishes:

ARCHISONIC:

Snow White 500	Cloud 103	Smoke 442	Slate 444	Charcoal 542	Raven 550
Ground 108	Gull 144	Milk 404	Linen 107	Dune 104	Jute 920
Fallow 238	Warm Stone 105	Truffle 539	Sunshine 846	Honeycomb 139	Electric Orange 464
Terracotta 239	Soft Coral 516	Cinnabar 725	Shell Pink 102	Garnet 724	Poster Red 662
Hot Pink 140	Grape 540	Marine Blue 864	Midnight 810	Royal Blue 865	Winter Sky 410
Deep Sea 918	Nocturne 866	True Navy 194	Ice Blue 304	Pacific Ocean 432	Lagoon 917
Succulent 712	Spearmint 706	Seafoam 710	Nordic Pine 311	Moss 439	Grove 317
Pistachio 315	Lichen 160	Fern 180			

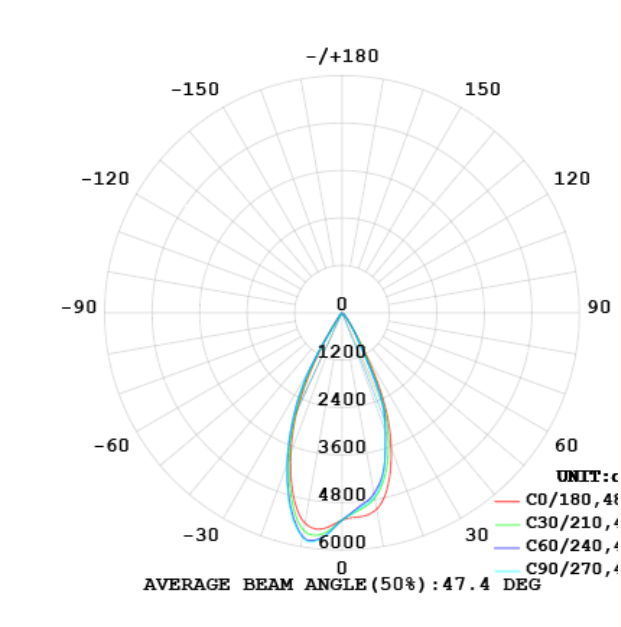
Dimensions



Densa 723.12.16

OW	1596mm
OD	134mm
OH	400mm

Lighting Distribution Graph:



Lighting Specification:

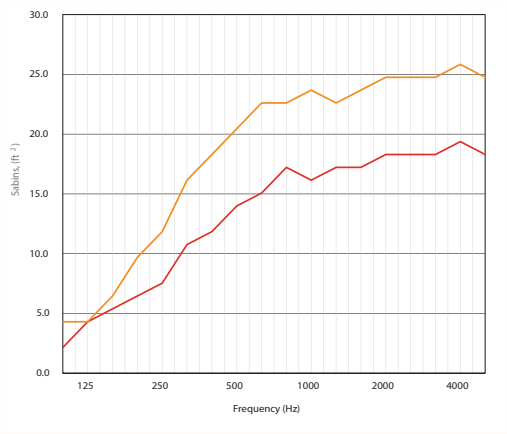
	Linear Light for Global Market
Output:	Direct
Total Lumen Output (lm):	3450-3500
Wattage (W):	30
Efficacy (lm/W):	115-117
Diffuser:	Darklight
Beam Angle:	65 Degree
CCT (Switchable):	3000-35000-4000K
CRI:	90
Voltage:	220-240V / 50-60Hz
Dimming:	DALI
Driver Location:	On-Board

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

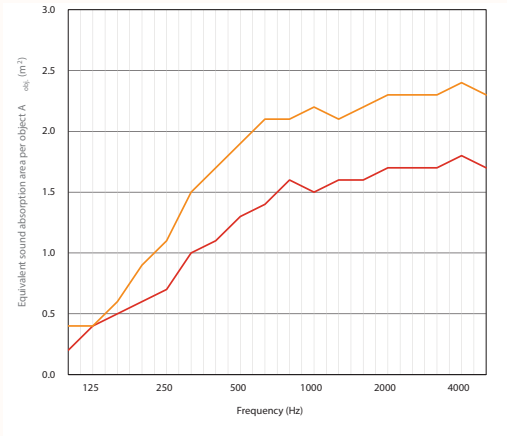


Acoustic Performance - ASTM Sabins , ft ²

Frequency (Hz)	125	250	500	1000	2000	4000
12mm Densa (Small)	4.31	8.61	13.99	17.22	18.30	18.30
12mm Densa (Large)	5.38	12.92	20.45	22.60	24.76	24.76

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

- 12mm Densa (Small)
- 12mm Densa (Large)



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

Frequency (Hz)	125	250	500	1000	2000	4000
12mm Densa (Small)	0.4	0.8	1.3	1.6	1.7	1.7
12mm Densa (Large)	0.5	1.2	1.9	2.1	2.3	2.3

The graph represents the equivalent sound absorption area 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 Densa (Small)
- 12mm Densa (Large)