

SSOUNDS LC4.4W

IP66 die-cast aluminium 4 × 4.5" column for covered walkways, entrances and courtyards, 160° × 10°.

Part of the LC System. Four 4.5" drivers: covered walkways, entrances and courtyards. LC stands for Line Column. Full system documentation at s-soundspro.com/systems/lc.



SSOUNDS LC4.4W

AT A GLANCE

MODEL / SKU	CATEGORY
SS-LC44W	Columns
BRAND	DRIVE
SSOUNDS	Passive
POWER	CONDITION
200 W	New
APPLICATIONS	
COLUMNINSTALLSPEECHOUTDOOR	

OVERVIEW

Outdoors there are no walls to help, and rain, dust and sun are part of the specification. The LC4.4W is four 4.5" full-range drivers in an IP66 die-cast aluminium column with a sprayed protective finish, covering 160° horizontally and 10° vertically so a wall position reaches along a walkway without spraying the facade above it. It is the shortest LC outdoor column, for covered walkways, entrances, mosque courtyards and station forecourts.

- 4 × 4.5" full-range drivers
- IP66, die-cast aluminium enclosure
- 160° (H) × 10° (V) coverage
- 100 Hz to 16 kHz (–6 dB)
- 117 dB continuous, 120 dB peak at 1 m
- 4 × Euroblock input, 7 kg

SPECIFICATIONS

GENERAL

Type	Passive column array, full-range, outdoor
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ACOUSTIC PERFORMANCE

Frequency response ²	100 Hz - 16 kHz (-6 dB)
Coverage ⁴	160° (H) × 10° (V)
Maximum SPL ¹	117 dB continuous · 120 dB peak @ 1 m
Sensitivity ³	94 dB (1 W @ 1 m)

TRANSDUCERS & COMPONENTS

Drivers	4 × 4.5" full-range, 1" voice coil
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ELECTRICAL

Power (long-term / peak, IEC 268-5)	200 W / 500 W
Recommended amplifier power ⁵	350 W
Nominal impedance ⁶	8 Ω
Recommended high-pass filter	80 Hz, 24 dB/octave

CONNECTORS & I/O

Connectors	4 × Euroblock
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PHYSICAL & CONSTRUCTION

Dimensions (H × W × D) ⁸	546 × 132 × 125 mm
Net weight ⁷	7 kg / 15 lb
Enclosure	Die-cast aluminium · sprayed protective finish

ENVIRONMENT

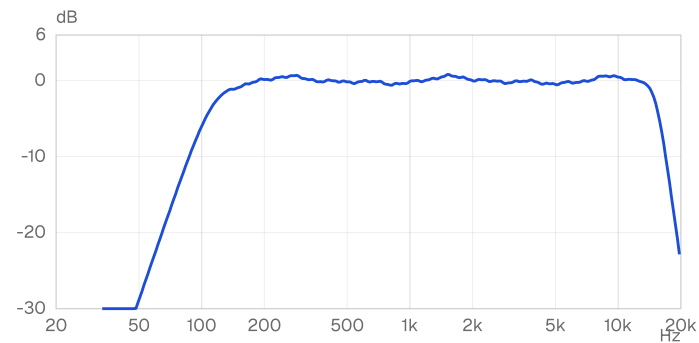
Ingress protection	IP66
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NOTES

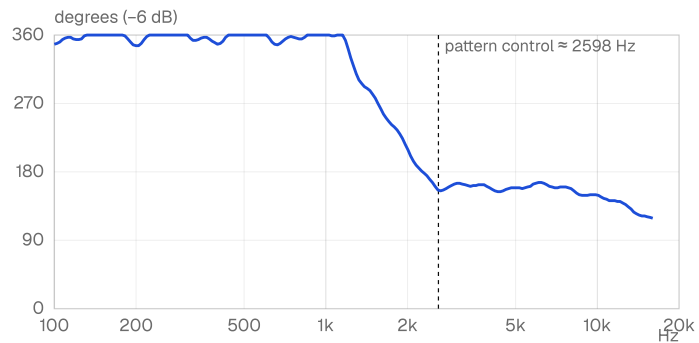
- 1. Maximum SPL is the peak level at 1 m, driven with pink noise at crest factor 4 to the clipping point of the recommended amplifier, with the SSOUNDS system preset applied. Full-range enclosures are specified under free-field conditions; figures marked half-space are specified over a reflecting plane, the condition subwoofers are deployed in, which adds approximately 6 dB.
- 2. Frequency response is specified on axis at 1 m in a free field. The tolerance the figure is referenced to is stated alongside it; where no tolerance is given, the figure is the -6 dB bandwidth.
- 3. Sensitivity is specified at 1 W into the nominal impedance at 1 m on axis, averaged across the pass band of the enclosure.
- 4. Coverage angles are nominal -6 dB values averaged across the pass band. Per-octave directivity data is available from SSOUNDS system design support for prediction and modelling.
- 5. Recommended amplifier power is the amplifier output SSOUNDS specifies for this enclosure, driven with the SSOUNDS system preset. It guides amplifier selection and is not an AES power-handling rating for the transducers.
- 6. Nominal impedance is the manufacturer's rating for amplifier load calculation; minimum impedance across the operating band may be lower.
- 7. Net weight excludes packaging, flight case, accessories and optional rigging hardware.
- 8. Dimensions are stated in millimetres and exclude protruding rigging hardware, handles and connector panels unless noted.
- 9. All figures are typical values for production units specified under the conditions above. Individual units may vary within published tolerances.

RESPONSE

FREQUENCY RESPONSE



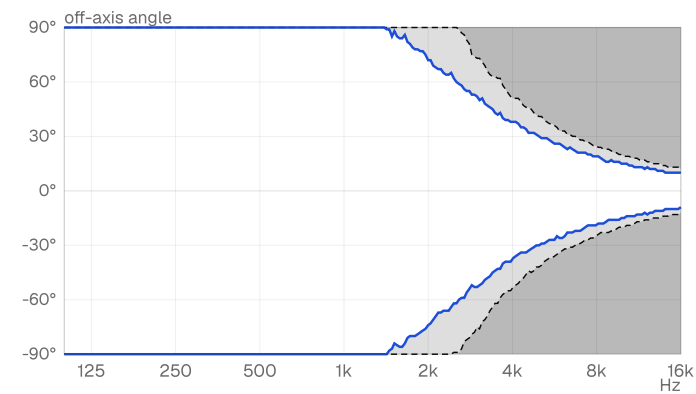
HORIZONTAL BEAMWIDTH



Plot conditions. Curves are generated by the SSOUNDS engineering toolchain from this product's specification. Frequency response is shown 1/24-octave smoothed, normalised to the midband reference, with the passband corners at the stated tolerance; response varies within ± 1 dB across the passband with a subtle shelf in the top octave. Magnitude slopes are 24 dB/octave beyond the passband corners. The beamwidth curve shows the -6 dB included angle: nominal coverage holds down to the pattern-control limit set by the cabinet width ($f \approx c/w$) and widens below it.

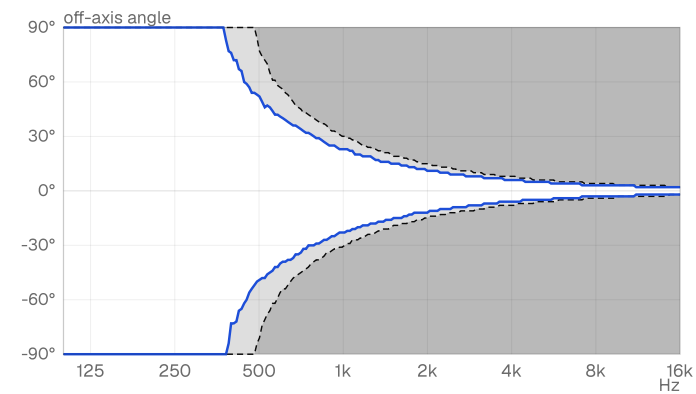
DIRECTIVITY

ISOBAR DIAGRAM, HORIZONTAL



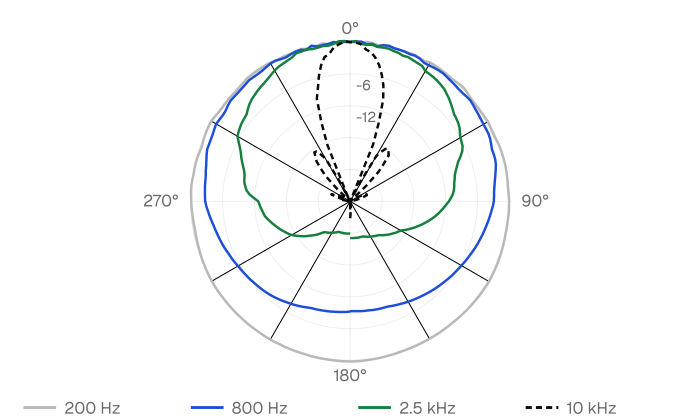
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

ISOBAR DIAGRAM, VERTICAL



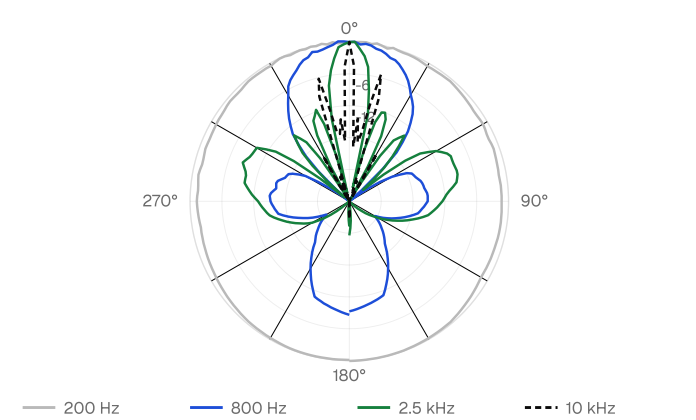
Lines of equal sound pressure. Blue: -6 dB. Dashed: -12 dB. White region holds within 6 dB of on-axis.

POLAR RESPONSE, HORIZONTAL



Normalised to on-axis. Rings at 6 dB intervals to a -30 dB centre. 1/3-octave band power. Charts span 100 Hz to 16 kHz, this cabinet's own operating band.

POLAR RESPONSE, VERTICAL



Normalised to on-axis. Rings at 6 dB intervals to a -30 dB centre. 1/3-octave band power.

Chart conditions. Directivity charts are computed by the SSOUNDS system prediction engine as a phase-coherent wave solution of this product's driver complement: each way represented by its physical radiator (rigid-piston cones with real diameters and spacings; waveguides as continuous mouth apertures, holding the rated coverage on a flare-controlled axis above the mouth's pattern-control limit and radiating the mouth's own diffraction limit on a wavefront-shaped axis; a horn-loaded mid shares the high-frequency mouth), summed as complex pressure through crossovers at the published points in the topology the cabinet is driven with (linear-phase FIR where the ways run on separate channels of a system DSP amplifier, Linkwitz-Riley where a passive network splits them), with way alignment referenced on axis and 1/24-octave band-power resolution. Single-cabinet vertical figures are free-field beamwidths of one element; the published per-element vertical coverage of a line array is its rigging splay, the sector one element covers in a curved hang. Cabinet edge diffraction, horn loading detail, driver breakup and production tolerances are outside the computation. Directivity files for prediction software (GLL/CLF) are issued from measured data only.

DOWNLOADS & DATA FILES

SSOUNDS LC4.4W: User Manual	MANUAL
Directivity table, horizontal (CSV) / vertical	CSV
SSOUNDS LC4.4W: Technical Data Sheet	DATASHEET

Loudspeaker data files for prediction software (GLL / CLF for EASE), 2D and 3D drawings and certification documents are issued on request. Contact support@s-soundspro.com and we will send the current release for this model.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The unit shall be of the SSOUNDS LC4.4W type, configured as a passive column array, full-range, outdoor. The unit shall be capable of meeting the following performance criteria: a frequency response of 100 Hz – 16 kHz (–6 dB); a maximum sound pressure level of 117 dB continuous, 120 dB peak @ 1 m; a sensitivity of 94 dB (1 W @ 1 m); nominal coverage of 160° (H) × 10° (V). Electrically the unit shall provide a power rating of 200 W, a nominal impedance of 8 Ω. Connection shall be by 4 × Euroblock. The unit shall be constructed of Die-cast aluminium, sprayed protective finish, measuring 546 × 132 × 125 mm, and shall weigh 7 kg / 15 lb. The unit shall be covered by the manufacturer's two (2) year limited warranty and shall be supplied by SSOUNDS or an SSOUNDS-authorized distributor. No alternate shall be accepted without prior written approval of the consultant or specifying engineer.

SAFETY & COMPLIANCE

Read this section before specifying, installing or operating this product. It summarises the safety requirements set out in full in the product documentation supplied with the unit; where the two differ, the product documentation takes precedence.

SOUND PRESSURE LEVEL & HEARING

This equipment is capable of producing sound pressure levels that cause permanent hearing damage. Do not operate at high level in close proximity, and ensure that operators, performers and audience exposure complies with applicable occupational noise-exposure regulation. Provide hearing protection where exposure limits may be exceeded.

ENVIRONMENT & MECHANICAL

Unless a published IP rating states otherwise, this product is intended for indoor use or for outdoor use under cover, and must be protected from rain, standing water and prolonged direct sun. Ensure ventilation openings are unobstructed. Stack, pole-mount and transport only as described in the product documentation, and secure the product against toppling wherever the public has access.

DISPOSAL

At end of life, dispose of the product and any packaging in accordance with local regulation for electrical and electronic equipment. Do not dispose of electronic components in general waste.

LIMITED WARRANTY: TWO (2) YEARS

SSOUNDS products are warranted against defects in materials and workmanship for a period of two (2) years from the original date of purchase by the end user. Within that period SSOUNDS will, at its option, repair or replace the defective item with no charge for parts or labour. The item must be adequately packaged and dispatched, carriage pre-paid, to SSOUNDS or an SSOUNDS-authorized service centre, accompanied by proof of purchase and a returns reference issued in advance by SSOUNDS. Unauthorized repair, modification or removal of serial-number labelling voids this warranty.

THIS WARRANTY DOES NOT COVER

- Cosmetic wear, finish, grille cloth, paintwork and consumable parts.
- Damage caused by misuse, abuse, accident, neglect, or operation outside the published ratings on this sheet.
- Damage caused by transport or handling after delivery, or by inadequate packaging on return.
- Damage caused by mains or generator supply faults (over-voltage, under-voltage, phase imbalance, surge or incorrect earthing) or by lightning.
- Water, dust or corrosion ingress on products not carrying a published IP rating for the conditions of use.
- Damage resulting from amplification or processing outside the recommended configuration on this sheet, or from third-party presets.
- Products not purchased from SSOUNDS or an SSOUNDS-authorized distributor.

This warranty is in addition to, and does not affect, any statutory rights the purchaser may have under applicable consumer law. It is the sole warranty offered; no other warranty, express or implied, is given.

Warranty claims and returns references: support@s-soundspro.com · +44 20 3769 6537

LEGAL NOTICE

All information on this data sheet is subject to change without notice. SSOUNDS reserves the right to alter specification, design and construction in the course of continuous product development.

Specifications, drawings and images are provided for guidance in system design and tender documentation. Where a figure is critical to a design, confirm it in writing with SSOUNDS before committing to a specification.

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