LCM-30CW-R Premium ceiling speaker, 30W

- Excellent sound reproduction
- Coaxial full-range speaker with poly cone tweeter
- Easy to install
- Simple power tappings at full, half and quarter power
- Tested for PHC with 100 hours of continuous operation as per IEC60268-1&5

The LCM-30CW-R is a high-efficiency, coaxial full-range premium ceiling loudspeaker providing excellent speech and music reproduction.
This ceiling speaker gives sound distribution for a wide scope of ceiling mounted applications.
These are ideal for hotels, restaurants, shopping centers, convention centers, office buildings, etc. where both speaker and music reproduction of high quality is required.

System overview

The LCM-30CW-R is a circular-shaped ceiling loudspeaker made from ABS material. The loudspeaker has full-range performance in the bandwidth of 70 Hz to 20 kHz. It comes with a poly-cone tweeter for enhanced performance. The LCM-30CW-R has a line-matching transformer to connect to a 100 V output from an amplifier. The loudspeaker has power tappings at full power (30 W), half-power (15 W), and quarter-power (7.5 W) to connect at different power levels.

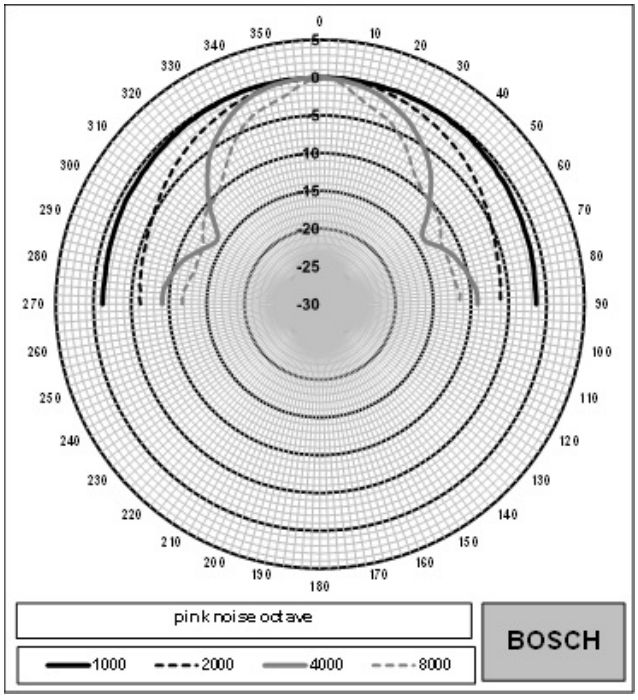

Fig. 1: Polar diagram LCM-30CW-R high frequency part (frequency in Hz)

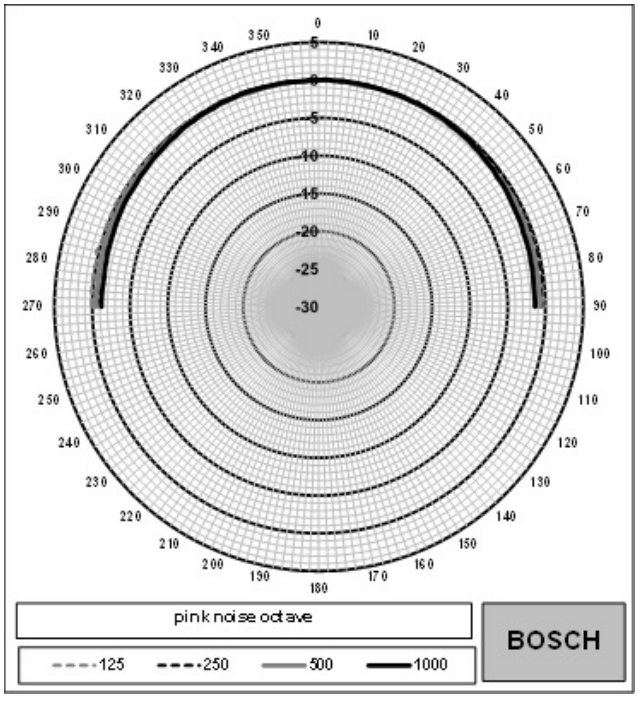

Fig. 2: Polar diagram LCM-30CW-R low frequency part (frequency in Hz)

Acoustical performance specified per octave							
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
SPL 1w, 1m in dB	86.7	86.3	85.5	89.3	91	93.1	92.8
Opening Angle (deg)	180	180	180	180	173	75	57

Functions

The LCM-30CW-R model ceiling speaker is for direct connection to a 100 V line output. The ceiling loudspeaker comes with a 100 V transformer with taps on the primary winding to allow different power tappings. Connecting the amplifier output to the appropriate tapping easily selects nominal full-power, half-power or quarter-power radiation, in 3 dB steps.

Regulatory information

All Bosch loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 60268-1 and IEC 60268-5 Power Handling Capacity (PHC) standards. Bosch has also developed the Simulated Acoustical Feedback Exposure (SAFE) test to demonstrate that the speakers can withstand two times their rated power for short durations. This ensures extra reliability under extreme conditions, leading to greater customer satisfaction, longer operating life, and much less chance of failure or performance deterioration.

- 100 hours PHC (Powering Handling Capaclty) test in acc. to IEC 60268-1&5
- SAFE (Simulated Acoustic Feedback Exposure) test to withstand 50 sweep runs of square wave from low frequency to high frequency at twice the rated power, simulating feedback situation.

Installation/configuration notes

This is a professional product that should be installed, used and maintained by trained professionals only.

Parts included

Quantity	Component
1	LCM-30CW-R Premium-sound ceiling speaker, 30W
1	Quick installation guide

Technical specifications

Electrical

Maximum power	45 W
Rated power (PHC)	30 W
Power taps at 100 V	30 W; 15 W; 7.5 W

Sound pressure level 1 kHz oct, 1 W, @1 m	90 dB (± 3 dB)
Effective frequency range (-10 dB)	70 Hz to 20 kHz
Opening angles (-6 dB)	1 K: > 180˚ 2 K: 173˚ 4 K: 75˚ 8 K: 57˚
Rated voltage	100 V
Rated impedance at rated power	333 Ω; 666 Ω; 1333 Ω
Connection	Screw terminal connector(ABS)
Safety	Refer to EN 60065

Mechanical

Driver / Speaker diameter	5 in / 8 in
Tweeter	½ inch poly-cone
Color	White (RAL 9003)
Weight	1.6 Kg

Ordering information

LCM-30CW-R Premium ceiling speaker, 30W
Ceiling loudspeaker 30 W, circular, ABS material
Order number **LCM-30CW-R | F.01U.432.404**

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