

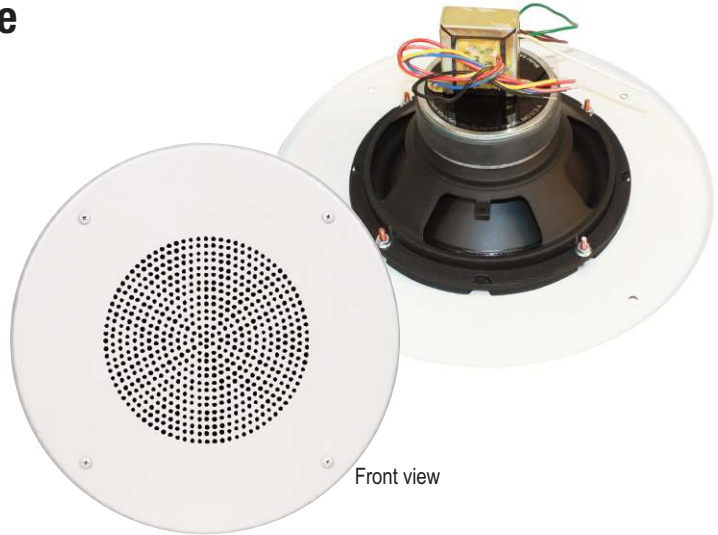


UL Listed only when used with Lowell Backbox (Enclosure) No. XCP87 (order separately)

## Model No. **WB8-8A50-T870** Speaker Assembly

- Includes 8" driver, transformer, grille
- UL Listed for General Signaling when used with approved backbox (Lowell No. XCP87, order separately)

This premium speaker assembly features an 8" 50W coaxial driver that's engineered as a step up in sound quality and performance over most standard commercial coaxial drivers, with improved power handling, lower distortion and smoother musical sound. It's ideal for upscale restaurants, lounges, hotel lobbies, department stores and similar venues.



### Construction & Features

- UL1480 Listed for general signaling and UL2043 rated for use in plenum spaces when used in conjunction with the approved backbox (Lowell No. XCP87, order separately).
- Premium 8" 50W coaxial driver (No. 8A50) has a capacity to deliver a wide angle of sound distribution (90 degrees) over a large area with uniform response and voice clarity to ensure complete coverage with minimum units. Features 20 oz. magnet, 1.4" copper voice coil, polypropylene cone with half-roll rubber surround for long cone travel and good edge damping. Post-mounted tweeter is a 1" balanced drive dome protected by Ferrofluid and first order high pass filter. Stamped 20-ga. steel frame with black enamel finish and zinc plated backplate.
- Transformer (No. TLM-870) has primary taps at 8, 4, 2, 1 watt and frequency response of 50Hz–15kHz ( $\pm 1$ dB).
- One-piece perforated steel grille (No. WB-8) has a white powder epoxy finish and 12.875" dia. Mounts with four white Phillips-head screws (included).

### Approved Backbox (required for UL Listing, order separately)

- **Lowell No. XCP87:** Enclosure required to maintain UL Listing on the speaker assembly features a flat grille mounting flange for recessed installation in new drywall construction or tile ceiling applications where plenum space for a large speaker system is limited. The acoustically treated enclosure is made of welded, unitized heavy gauge steel, undercoated and lined with 1.5" thick acoustic batting to eliminate acoustic and metallic resonance. It measures 10.063" dia. x 6.687"D and has four combination 1/2"–3/4" conduit knockouts, 8-32 screw retaining U-clips on the flange for grille installation, and a durable black powder epoxy finish.



### Compatible Components (order separately)

SS Series channel rails can be used to rough-in the enclosure before a drywall ceiling is installed. The tile-bridges listed below can be used with the enclosure to distribute speaker weight in suspended ceiling installations.

- Channel rails .....SS24, SS30, SS48
- Tile-bridge .....LBS8, LBS8-R1

Heard Everywhere Since 1947

## Driver + Transformer Specifications

Driver + Xfmr. No's.	Driver Power Rating	Driver Type	Ceramic Magnet	Assembly Frequency Response	Assembly Dispersion	Assembly Sensitivity 1W / 1M	Assembly Depth	Weight (without xfmr)	Max SPL
8A50 + TLM-870	50W	Coaxial	20 oz.	40Hz–19.4kHz (±6dB) 40Hz–20kHz (±7.1dB)	90 degrees @ 2000Hz (-6dB)	92.0dB Avg.	6.125"	3.5 lbs.	101.0dB *

\* Calculated Value 1M @ maximum transformer tap (8W).

Additional technical information is available on the specification sheet for Driver No.8A50

## A&E Specifications

The speaker assembly shall be Lowell Model No. WB8-8A50-T870, which shall include an 8" driver, 70V 8W transformer mounted to a white ceiling grille. The driver shall be of the coaxial type having high and low frequency transducers. The low frequency section shall have an 8" dia. polypropylene cone; high frequency section shall have a tweeter with 1" balanced-drive dome. A built-in electrical crossover network shall be employed to accomplish proper frequency division between the two drivers. Crossover frequency shall be at 4kHz with first order high-pass filter. It shall be capable of producing a uniform audible frequency response over the range of 40Hz–19.4kHz (±6dB) and 40Hz–20kHz (±7.1dB) with dispersion angle of 90 degrees @2000Hz (-6dB). Average sensitivity shall measure 92.0dB (SPL at 1W/1M). Rated power handling shall be 50 watts RMS. The low frequency voice coil shall have a 1.4" dia. and operate in a magnetic field derived from a ferrite (ceramic) magnet nominal weight of 3.5 lbs. The high frequency voice coil shall have a 0.57" dia. and operate in a magnetic field derived from a ferrite (ceramic) magnet having 2 oz. nominal weight. Voice coil impedance shall be 8 ohms. The frame shall be structurally reinforced stamped 20-ga. steel with overall diameter of 8.08" with eight obround holes equally spaced at 45 degrees on 7.7" dia. mounting bolt circle. External metal parts shall be finished in black enamel coating or zinc plating to resist rust/corrosion. The transformer shall have primary taps at 8, 4, 2 and 1W and frequency response of 50Hz-15kHz (±1dB). It shall be factory-mounted to top of driver. The driver/transformer shall be screw-mounted to a perforated steel grille with 12.875" dia. and white powder epoxy finish. The speaker assembly shall be used with the approved backbox (Lowell Model No. XCP87 ordered separately) to maintain the UL1480 Listing.

## Technical Drawings

