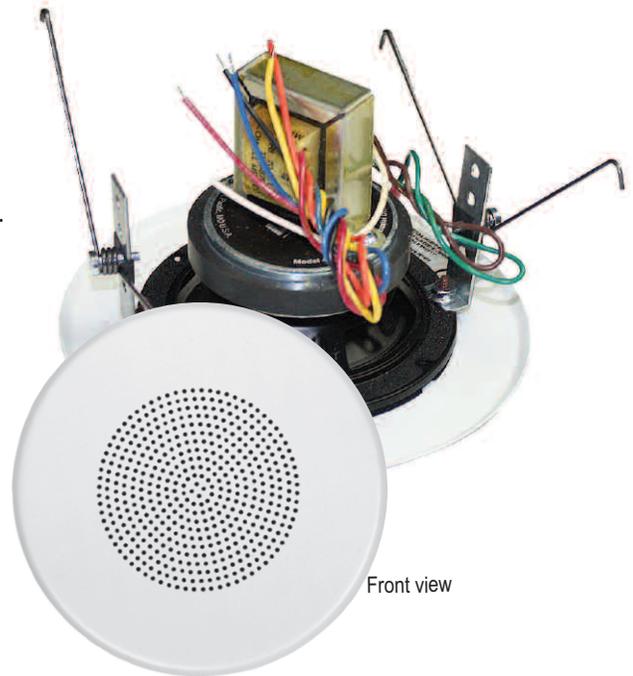




UL Listed only when used with Lowell Backbox Model No. DX104-T

Model No. **WB4T-4A30-T870** Speaker Assembly

- **UL Listed for General Signaling when used with approved backbox**
- **Includes 4" driver, transformer, torsion grille**



Front view

Construction & Features

- Listed under UL1480 general signaling and UL2043 rated for use in plenum space when used with approved backbox (Lowell Model No. DX104-T, order separately).
- Premium 4" 30W coaxial driver (No. 4A30) is engineered as a step up in sound quality and performance over standard commercial coaxial drivers, providing very high quality paging and background music reproduction for hotel lobbies, stores, transportation terminals, and similar venues.
- 135 degree dispersion for large coverage areas
- 10oz. magnet coupled with 1" copper voice coil driving a polypropylene cone with half-roll rubber surround for long cone travel and good edge damping.
- Post-mounted, liquid-cooled tweeter is a 1" dia. balanced drive dome with first order high-pass filter. Frequency response is 70Hz-20kHz (± 6 dB); 50Hz-20kHz (± 8.8 dB) with crossover at 5kHz.
- Driver's capacity to deliver a wide angle of sound distribution at 2kHz with uniform response and clear audibility ensures complete coverage with minimum units.
- Frame is stamped 20-ga. steel with black enamel paint finish and zinc plated backplate.
- Transformer (No. TLM870) has primary taps at 8, 4, 2, 1 watt and frequency response of 50Hz-15kHz+1dB.
- One-piece punched steel torsion grille (WB4T) finished in white powder epoxy paint.
- Grille has a 7.25" dia. and mounts to the backbox using a torsion spring assembly.

Approved Backbox (required for UL Listing, order separately)

- **Lowell Model No. DX104-T:** Backbox measures 10" dia. x 6.75"D and has an additional 3/8"D formed flange. Constructed with welded 22-ga. steel, it's acoustically coated to eliminate metallic resonance and lined with 1.5" thick batting (1.5 lbs. density rating) to neutralize undesirable resonance in high frequency range. Includes four combination 1/2-3/4" knockouts for conduit and two flexible mounting straps positioned at 180 degree intervals.



Compatible Components (order separately)

SS Series channel rails can be used to rough-in the approved backbox before a drywall ceiling is installed. Tile-bridge Model No. LBS4-DX can be used with the backbox to distribute speaker weight in suspended ceiling installations.

- Channel RailsSS24, SS30, SS48
- Tile-BridgeLBS4-DX

Model No. Summary

Model No.	Description	Driver	Transformer Taps	Grille
WB4T-4A30-T870	Driver-transformer-grille assembly	4" 30W coaxial	8, 4, 2, 1W	Round, torsion

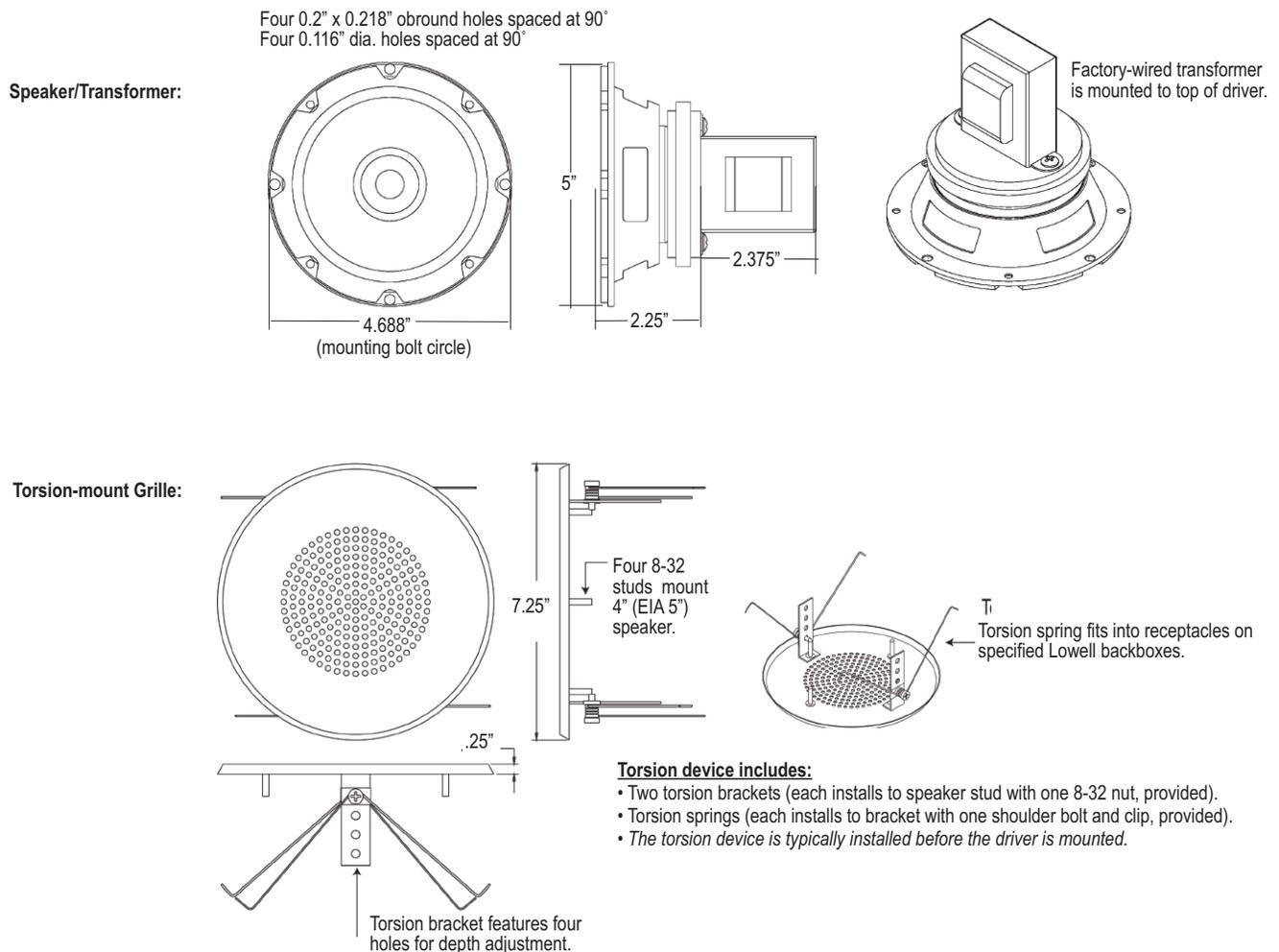
NOTE: To maintain UL Listing, assembly must be used with Lowell backbox model no. DX104-T (order separately)

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A&E Specifications

The UL Listed Standard 1480 General Signaling speaker assembly shall be Lowell Model No. WB4T-4A30-T870, which shall include 4" driver, attached 70V 8W transformer and white torsion grille. The driver shall be of the coaxial type having high and low frequency transducers. The low frequency section shall have a 4" dia. polypropylene cone and the high frequency section shall have a tweeter with a 1" dia. balanced-drive dome. A built-in electrical crossover network shall be employed to accomplish proper frequency division between the two drivers. The crossover frequency shall be at 5kHz with a 1st order high-pass filter. It shall be capable of producing a uniform audible frequency response over the range of 70Hz-20kHz (+6dB), 50Hz-20kHz (+8.8dB) with a dispersion angle of 135 degrees @ 2000Hz-6dB. The average sensitivity shall measure 88.0dB (SPL at 1W/1M). Rated power handling shall be 30 watts (EIA 426B). The low frequency voice coil shall have a 1" dia. and operate in a magnetic field derived from a ferrite (ceramic) magnet having nominal weight of 10 oz. The high frequency voice coil shall have a 0.53" dia. and operate in a magnetic field derived from a Neodymium magnet having a 0.06 oz. nominal weight. Voice coil impedance shall be 8 ohms. The frame shall be structurally reinforced stamped 20-ga. steel with an overall diameter of 5" with four round and four obround holes equally spaced on 4.67" dia. mounting bolt circle. All external metal parts shall be finished in black enamel paint or zinc plating to resist rust and corrosion. The transformer shall have primary taps at 8, 4, 2 and 1 watt and frequency response of 50Hz - 15kHz ±1dB. It shall be factory-mounted to top of driver. The driver/transformer shall be mounted to a one-piece punched steel grille. The 7.25" dia. torsion-mount grille shall be finished in white powder epoxy paint. The assembly shall be used in conjunction with Lowell backbox Model No. DX104-T (ordered separately) to maintain UL Listing.

Technical Drawings



Technical Specifications

Driver/Transformer Assembly

Model No.*	Assembly Depth**	Assembly Weight	Frequency Response	Sensitivity Average SPL	Sensitivity Max SPL***	Dispersion (2kHz Octave)
4A30-T870	4.5"	2.9 lbs.	70Hz-20kHz ((+6dB) 50Hz-20kHz (+8.8dB)	88.0dB	102.8dB	135 degree conical (-6dB)

* Additional technical information is available on the spec sheet for Driver No. 4A30.

** Minimum depth required for speaker/transformer assembly to be rear-mounted into an enclosure.

*** Calculated Value 1M @ Driver Power Rating

Transformer (only)

Model No.	Power Rating	Voltage	Primary Taps	Response	Insertion Loss
TLM-870	8W	70V	1, 2, 4, 8W	50Hz-15kHz (± 1 dB)	0.8dB