

#### Quality Features

- ULS Series is engineered to meet UL Standard 1480 (Speakers for fire protective signaling systems) 5<sup>th</sup> edition.
- Assemblies include speaker with transformer, capacitor and grille shipped ready for installation to Lowell companion backboxes required for UL listing (order separately).
- 15-watt speaker reproduces emergency alarm and voice instructions with high efficiency and clear intelligibility.
- Factory-wired transformer and DC blocking capacitor meets application requirements for 25V and 70V life safety and emergency signaling systems.
- Attractive selection of ceiling grilles meets functional and architectural considerations for unobtrusive mounting of life safety speakers.

#### Description

Lowell's Speaker Series ULS is engineered to meet Underwriters Laboratories Standard 1480 5<sup>th</sup> edition. These 8" speaker assemblies provide clear and concise signal reproduction for indoor alarm evacuation and/or voice communication in fire alarm/emergency warning systems and for indoor general voice communication in non-fire alarm signaling applications. They are also designed to meet the applicable requirements of NFPA72A.

Each assembly includes an 8" single voice coil speaker with a dual cone, wired dual voltage 70/25V transformer with multi-tap power output lugs, parallel input leads, DC blocking capacitor, and selection of round or square grille.

The ULS Series 15-watt speaker delivers excellent sensitivity per the Underwriters Laboratories' measurement standard of 2 watts at 10 feet. This recognized standard assures building owners and occupants that emergency communications will be heard and understood. Recommended applications include high-rise hotels, apartment complexes, schools, and public/retail establishments of all kinds.

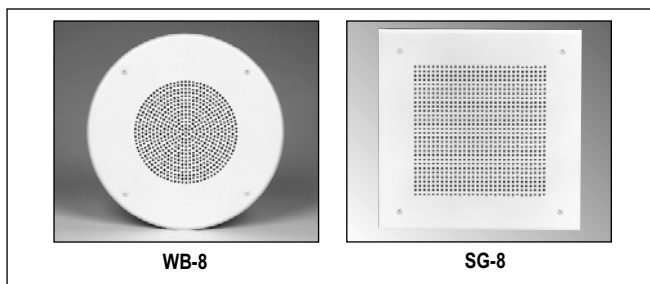
The Lowell Series ULS fire protective signaling speakers must be used with compatible control equipment and must be matched with companion Lowell backboxes (see page 2).



ULS-WB8-CT572

ULS-SG8-CT572

**ULS Series Single Voice Coil Assemblies**  
15W speaker / xfmr / capacitor / grille



WB-8

SG-8

**Grille Selection**

#### DRIVER SPECIFICATIONS

Model Series	Size	Type	Ceramic Magnet	Cone Type	V.C. Impedance	V.C. Dia.	Power Rating	Sensitivity 1W / 1M*	Depth
ULS	8"	Single V.C.	10 oz.	Dual Cone	8 Ohms	1"	15W RMS	95* dB avg	2.75"

\*UL dBA rating at 10 ft: 70.7V input 1W: 83.6 dBA, 25V input 1W: 84.1 dBA

#### TRANSFORMER SPECIFICATIONS

Xfmr Voltage	Xfmr Power Rating	Xfmr Primary Taps	Xfmr Secondary Impedance	Core Size	Insertion Loss	Lead Length	DC Blocking Capacitor
70V / 25V	5 Watts	1/4, 1/2, 1, 2, 5W	8 Ohms	1/2" x 1/2"	< 0.5	8"	10 mfd @ 160V

#### SPEAKER ASSEMBLY AND MOUNTING INFORMATION

Assembly Model	Xfmr included	Grille included	Grille Description	Required Backbox (order 1 per separately)	Tested Response w Grille & Backbox**	Dispersion w Grille 2 kHz -6dB
ULS-WB8-CT572	70V / 25V	WB-8	Steel 12.875"Dia	ULCP84 or ULXCP84S	60Hz - 12 kHz ± 9dB	100°
ULS-SG8-CT572	70V / 25V	SG-8	Steel 11.375"Sq	ULP68X or ULCP84-SG	60Hz - 12 kHz ± 9dB	100°

\*\*Actual response exceeds that tested.



## ULS Series

# 8" Speaker Assemblies for Fire Protective Signaling

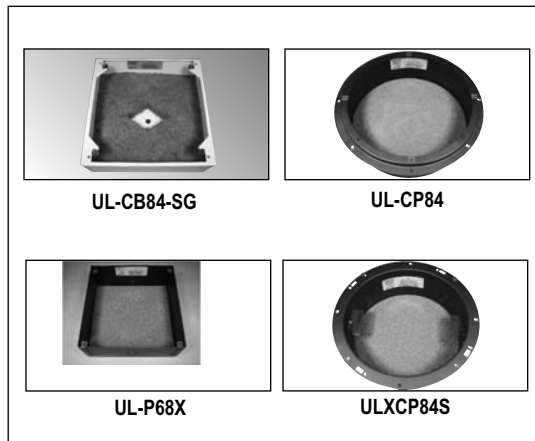
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### A & E Specifications

The fire-protective speaker assembly shall be Lowell Series ULS. The speaker shall be an 8" single voice coil, with a dual cone assembly. It shall have a factory mounted dual voltage 70/25V transformer with multi-tap (1/4, 1/2, 1, 2, 5W) power output leads and parallel input lugs. The speaker shall have a 15-watt power rating and a sound pressure level of \_\_\_ when

measured at 2 watts @ 10 feet. Assembly shall include a DC blocking capacitor and factory mounted Lowell Model \_\_\_\_\_ grille. The Lowell speaker assembly shall mount to a Lowell Model \_\_\_\_\_ backbox which is required to maintain UL Listing.

### Companion Backboxes (order separately)



**Backbox Selection**  
(Required - Order Separately)

#### Backbox Information (required to maintain UL Listing - Order separately)

Backbox Model	Type	Size
UL-CB84-SG	surface	11.5Sq x 4D
UL-CP84	recessed, extended lip	11.938Dia x 4.063D
UL-P68X	recessed	10Sq x 4D
UL-XCP84-S	recessed w straps, flat flange	10.063Dia x 4.063D straps

**12"/10"**  
Speakers &  
Accessories



**8"**  
Speakers &  
Accessories

**6"**

Speakers &  
Accessories

**4"**

Speakers &  
Accessories

**Horn**

Speakers &  
Accessories

**Masking**

Speakers &  
Generators

**Control**

Accessories  
& Electronics

Systems