

# The ULD<sup>©</sup> Beam-Forming Loudspeaker



**Althar Audio Uniform Loudness Distribution<sup>©</sup> loudspeakers utilize our FAB<sup>©</sup> Frequency Amplitude Beaming engine. Beam-Forming supports an ultra-wide dispersion and very even sound pressure levels over distance. Beam-Forming is represented in Blue overlay, Red Overlay = Conventional speaker sound pattern.**

**There are essentially 3 features quality beamforming loudspeakers should possess...**

## **1. Uniformity**

As you move away from the loudspeaker (Near Field), towards the rear of the room, (Far Field), you should perceive a highly uniform delivery of all frequencies. (Represented in Blue overlay).

## **2. Loudness**

The "Loudness" or "Throw" of the loudspeaker in the space should maintain sound pressure levels with high articulation to the Far Field of the room.

## **3. Distribution**

Consistent delivery of high frequency program material Distributed in the horizontal plane, (High Degree of Horizontal Dispersion) from Near to the Far Field.

A loudspeaker which possesses the above features assures true Beamforming is present which can be verified by a noted decrease in general sound pressure level and an absence of High Frequencies directly above and below the loudspeaker.

Althar Audio ULD, Uniform Loudness Distribution loudspeakers represent a unique breakthrough in sound reproduction offering high value for dollar and simplified installation.

Please contact us to discover how our New Uniform Loudness Distribution loudspeakers can provide an improved client experience while simplifying your installation costs and sound engineers workload.