

---

Subject: directivity

Posted by [rcw](#) on Wed, 01 Jun 2005 05:25:35 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I have Aes journal papers by Floyd Toole from 1986. In the May 1986 paper he reports that people preferred wider dispersion speakers for both mono and stereo reproduction, and speculates that this is due to the wider dispersion speakers exciting the reverberant field in such a way as to give a more "spacious" feeling, comments from test participants confirmed this. There is a lot to be said for narrower preferably constant directivity for multi channel surround systems as the "spacious" quality is supposed to come from the surround speakers, the front L and R speakers can then be designed to optimise image. I have built some speakers with close to constant directivity from 300Hz. upwards, and the image is very stable and lifelike, the major drawback is that they are big.

---