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Illumination bodies for ball-convex bodies.

We introduce illumination bodies in the class of n-dimensional R-ball convex bodies. We will prove that the illumination bodies are convex, and that a left derivative of volume gives rise to a surface area measure for ball-convex bodies, the relative surface area measure. This talk is based on a paper titled "Illumination bodies for ball-convex bodies" by Elisabeth Werner, Diliya Yalikun, and Brandon Oliva.