EAF figures derived from far field measurements

Supporting document on 1000Base-RH draft v1.1
TF - IEEE802.3bv

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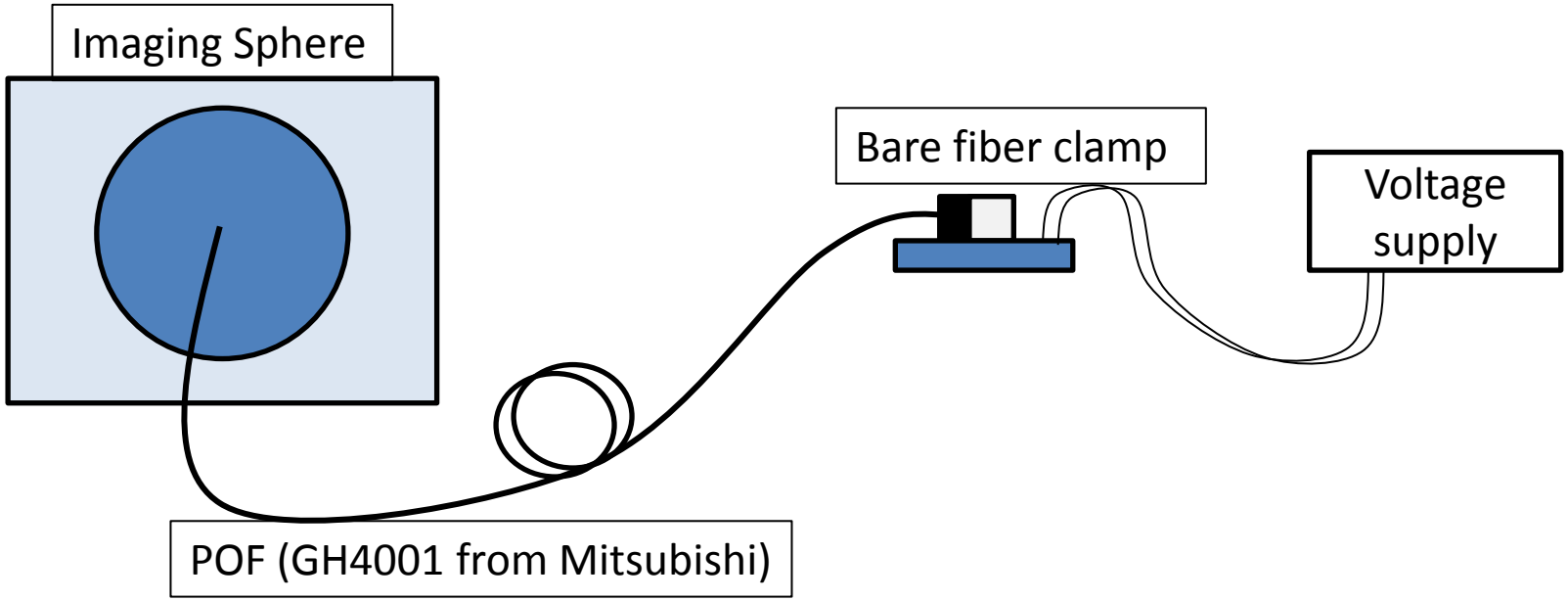
Measurement conditions

Test: Cutback starting from 50m POF GH4001 with polished fiber ends

Sample: AFBR-59F3Z from Avago

Result: Far field -> Optical power (I) / steradian (sr) per theta angle (θ)

Setup:



EAF Calculation -> $$EAF(\vartheta) = \frac{\int_0^{\vartheta'} \int_0^{2\pi} I(\vartheta) r^2 \sin(\vartheta)\, d\varphi d\vartheta}{\int_0^{\frac{\pi}{2}} \int_0^{2\pi} I(\vartheta) r^2 \sin(\vartheta) d\varphi d\vartheta}$$

Encircled angular Flux (EAF) results for several POF lengths