



1. Title:	Test stand for optical characterization of grazing incidence collectors
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3. Abstract body:

A facility to determine the optical properties of grazing incidence collectors to be used in future EUV Lithography scanners is presented. The equipment allows for measuring the optical transmission of the collector at the intermediate focus and the far field distribution of the transmitted EUV light. The IF detector consists of a calibrated inband converter screen, which is imaged with a commercial CCD camera. The diagnostics allows for absolute measurements of the photon flux and the collector transmission. A low power xenon pinch plasma is used as EUV source, whose emission parameters are matched to the special metrology requirements. Measurements performed on single and dual shell collectors and comparison with predicted behavior will be presented.

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