

Re: Practically achievable beam divergence for white, non-coherent light

Source: <http://sci.tech-archive.net/Archive/sci.optics/2005-03/0011.html>

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Date: 02/28/05

Date: 28 Feb 2005 15:10:06 GMT

Joe D. <joe@nospam.invalid> wrote:

> "Bob May" <bobmay@nethere.com> wrote in message
> news:1109536513.159705@news-1.nethere.net...
>> You can get there from here by imaging the sun with a short focal length
>> mirror and then using that small image at the focus of a long focal length
>> mirror, gain a small divergence angle.
>> The sun (and the moon, for that matter) is 1/2 degree wide. To get the
>> desired angle, you will need to have the second set of optics to be about
>> 10
>> times longer than the first ste.
>
> By this you mean the diameter of the secondary has to be 10 times
> the diameter of the primary mirror?
>
> Or that somehow after a parabola collect sufficient light, and after
> it bounces off the secondary it most go through a 1:10 beam expander
> to produce the desired divergence?
>
> My question is can any mirror-based optics produce a solar
> beam with a divergence of 0.06 degrees (1 milliradian).

Sure, it's trivial.
1cm flat mirror.
1cm apature at 10m.

Job done.