

Re: Sky Quality Meter

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- *From:* welch@xxxxxxxxxxxxxxxxxxxxxx
 - *Date:* 31 May 2005 08:36:46 -0700
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Hi Dan,

That is a fast lens! As you say, the count rate is similar to the open (with CM500 filter) detector we are using. As you know this is just the Lagrange invariant at work!

We have tested the spot to zenith-pointing-SQM offset and find that it is about 0.65 mag/sq arcsec using visual bandpass CCD photometry with standard stars of known Vj and (B-V)_j (i.e. a minus-IR filter) which is most similar to the bandpass of our detector/filter combo. Both light pollution and natural OH-airglow are strongly concentrated to the red end of the spectrum, so we believe that our test is a more fair/accurate comparison than using V_j.

We are certainly interested in improving the calibration with additional input and cross-checks. As mentioned in another post, these will almost certainly be zeropoint corrections which can be applied for specific purposes.

Best regards,
Doug

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- *Follow-Ups:*
 - ◆ [Re: Sky Quality Meter](#)
◇ *From:* Dan Mckenna
 - *References:*
 - ◆ [Sky Quality Meter](#)
◇ *From:* Anthony
 - ◆ [Re: Sky Quality Meter](#)
◇ *From:* tony_flanders
 - ◆ [Re: Sky Quality Meter](#)
◇ *From:* welch
 - ◆ [Re: Sky Quality Meter](#)

Re: Sky Quality Meter

◇ *From:* Dan Mckenna

- Prev by Date: ***Dead Night in Rosamond***
- Next by Date: ***Re: M31 3X Bigger than Thought***
- Previous by thread: ***Re: Sky Quality Meter***
- Next by thread: ***Re: Sky Quality Meter***
- Index(es):
 - ◆ ***Date***
 - ◆ ***Thread***