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**Issue date** 5th January 2026

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## Measurement Overview

<b>Customer</b>	Krannich Solar AG
<b>PV module information</b>	BFH ID: M36-1 Serial: LR7-54HVH-485M Module Type: Longi LR7-54-HVH-485M
<b>Glass type</b>	Textured Glass
<b>Measurement Date</b>	05.01.2026
<b>Operator</b>	Julia Vallés Ruescas & Vincent Guerdat
<b>Light source</b>	CAMEO P2 FC (LED)
<b>Luminance measurement</b>	Mavo-Spot 2
<b>Distance DUT</b>	0.75 m
<b>Photo camera</b>	Canon EOS 90D
<b>Distance Light-Sample</b>	14 m
<b>Reference luminance</b>	Mean: 67.8 lx Standard deviation: 0.3 lx
<b>Correction factor (Indoor/Outdoor)</b>	1476.0
<b>Measurement uncertainty</b>	30 % (estimated)
<b>Measured spot</b>	Brightest spot is measured; this corresponds approx. to incident angle = reflection angle

Table 1: Key parameters of the measurement setup

# Results Quasi-Vertical Full Irradiation

Result under full-irradiance, quasi-vertical incidence		
Scaled to luminance	100	klx
Scaled Measured luminance	28 000	cd m <sup>-2</sup> at 10° incident angle

Table 2: Light-density result for a full-irradiance (100 k lx) quasi-vertical (10°) measurement.

## Light-Density Plot

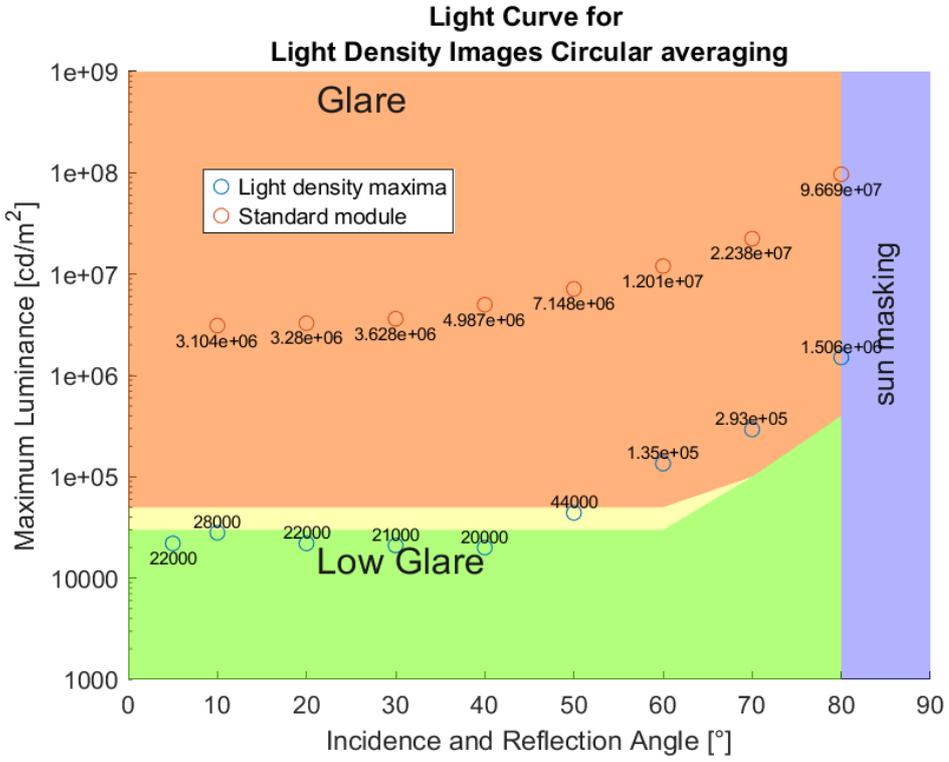


Figure 1: Overall light-density distribution.

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## Light-Density Images per Angle

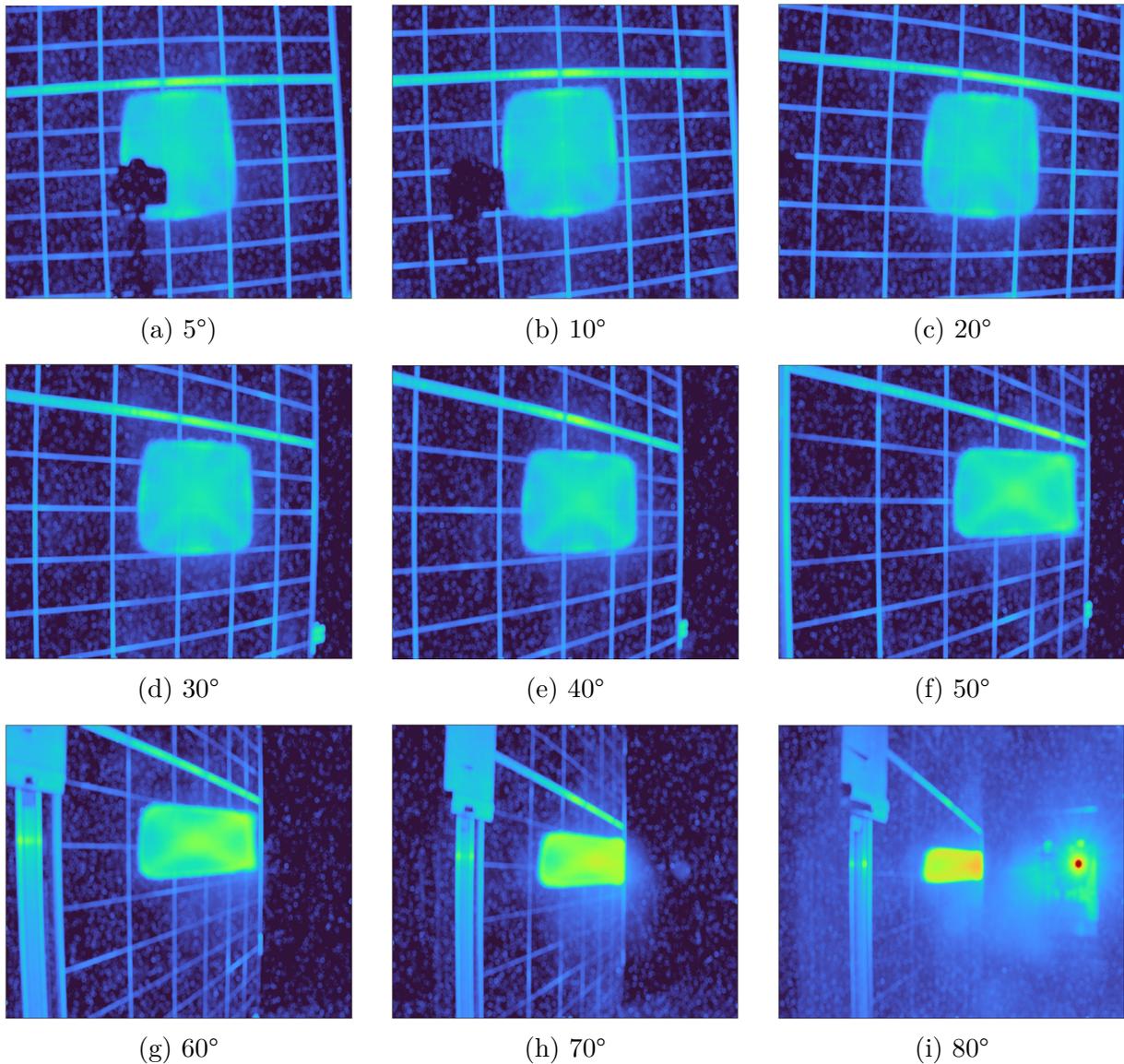


Figure 2: Light-density measurements at various incidence angles (nine images).

## Notes

- Different measurement geometries (spot measurement with Mavo-Spot versus area-based camera imaging) and associated uncertainties may cause deviations between the tabulated values and the images.
- If the reflection maximum does not coincide exactly with the incidence/reflection angle, the reported luminance values can differ noticeably.