

Sol3A Partial Sun Attenuator Accessory



The 940X3A-P is a Variable Aperture accessory for Sol3A simulators (any model) that provides user variable partial sun illumination on Sol3A simulators. The range of attenuation is from 0.25 - 1Sun. Uniformity at partial illumination maintains a minimum Class B uniformity per the IEC, JIS, and ASTM standards. User has infinite control of attenuation. Spectral performance and temporal stability maintain Class A performance at any attenuation. The 940X3A-P is easily field upgradeable on existing Sol3A Simulators.



Partial Sun Attenuator module installed in Sol3A (6x6)

The partial sun attenuator is easily set by rotating the control knob until the desired irradiance is achieved as determined using a calibrated solar reference cell.

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Irradiance level	Typical % Non-uniformity (12x12)
Original/Normal 1sun - no attenuator	1.31
Fully/Max open 1sun - with attenuator	1.20
0.75 sun - with attenuator	1.80
0.50 sun - with attenuator	2.23
0.25 sun - with attenuator	3.84

Data represents the effect on uniformity on a 1 2x12 inch (300 x300mm) Sol3A at various irradiance levels. The actual non-uniformity at a given attenuation will vary from model to model but will be <5% across the entire range from 0.25- 1.0 Suns if the Sol3A has been properly aligned to achieve Class A (IEC) uniformity prior to installation of the accessory.

940X3A-P Variable Aperture for partial sun illumination on Sol3A solar simulators



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