



Sunshine Weather Meter

# S80

The world's original, precision  
Sunshine Weather Meter

SUGA developed the original Sunshine Weather Meter decades ago. Today, SUGA's extraordinary reputation continues with SUGA's S80 Sunshine Weather Meter. This precision instrument exposes samples to continuous radiation, without interruption, for the longest period. The stable spectral power distribution achieved by our original control system of discharge voltage (50V) and current (60A) contributes to the excellent testing reproducibility. This precision instrument is extremely reliable and easy to use and in conformance with international standards.

**ONLY BY SUGA**

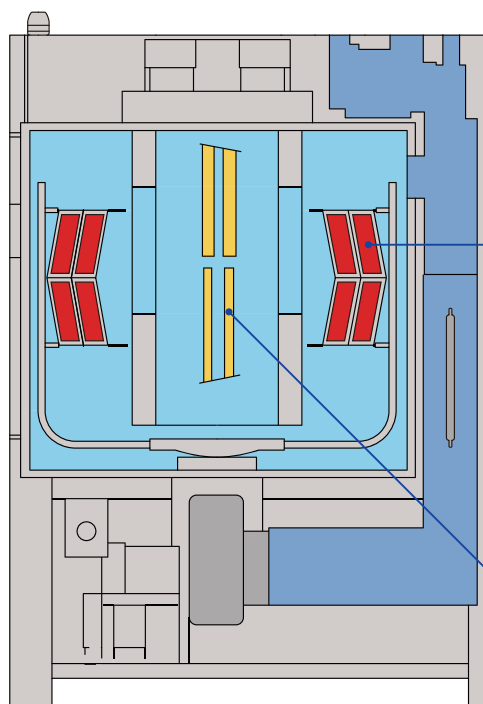
The world's most trusted  
Sunshine Weather Meter

Conformance with international standards

- ISO
- ASTM
- JIS
- AATCC

Test condition

- Light test
- Light + Spray combined test



**70**  
Samples  
at a time

**78h**  
Continuous  
operation

## Related Standards

Field	Standards							
	International		USA			JAPAN		
	ISO		AATCC	ASTM		JIS		
Plastic	4892-4	4892-1				K 7350-4	K 7350-1	
Paint	16474-4	16474-1		D822	D3361			
Building construction						A 1415	A 5422	A 5759
Printed matters and Inks						K 5701-1		
Textile			TM192			L 0891		
Aluminum	2135	28340				H 8685-1	H 8602	
Glass						R 3212		
Rubber	4665			D750		K 6266	K 6404-17	K 6404-18
PV modules						C 8917	C 8918	C 8938 C 8939
Automotive						S 3107	D 0205	D 0208 D 4604
Railway						E 1203	E 4037	
Tape						Z 1541	Z 0237	Z 1528
Non-metallic Materials					G152			
Safety signs	17398					Z 9096	Z 9107	Z 9117
Meter						C 1271-1	C 1272-1	

Having a history of over 80 years, Sunshine Weather Meter has been still useful test instruments around the world and defined on the present test standards such as ISO, AATCC, ASTM and JIS.

The test results by the Sunshine Weather Meter have been heaped up in history and been regarded as one of trusted evaluation criteria. Sunshine Weather Meter contributes to develop many products from past to present.



## Specification

Light source	Open flame carbon arc lamp (Sunshine Carbon arc lamp, 4 pairs of ultra long life carbon rods)
Continuous lighting time	Approx. 78 hours
Discharge voltage and current	50±2V, 60±2A
Test condition	Light only, light and spray on front face (rain)
Irradiance	255(±10%) W/m <sup>2</sup> (at 300 to 700 nm)
Temperature and humidity range	63±3°C (Black panel temperature) 30 to 70±5%rh
Number of specimens	Maximum 70 pieces (150 × 70 × 1 mm)
Test specimen rack diameter	φ 960 mm
Electrical requirements	3 phase 200V, approx.39A
External dimension	Approx: width 136, depth 135, height 226 cm, weight: 560 kg

\*If the power source of installation place does not supply, it is necessary to use a step down transformer.

\* Other available models: Low temperature model SL80

Two independent chambers with Sunshine carbon arc lamp and other light source

\* For peripheral devices, please contact your sales representative.



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