

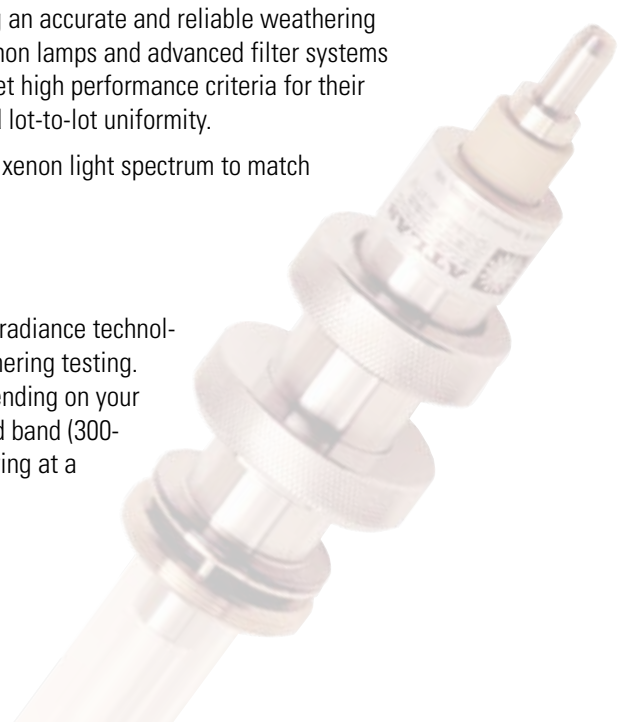
Which Light is Right?

Choosing the “right light” is one of the first steps in creating an accurate and reliable weathering test program. The Ci4400 simulates solar radiation using xenon lamps and advanced filter systems specifically designed for weathering. Atlas xenon lamps meet high performance criteria for their spectral power distribution, lifetime, irradiance stability, and lot-to-lot uniformity.

The Ci4400 uses interchangeable glass filters that tailor the xenon light spectrum to match light conditions in your products’ end use environment.

Controlled Irradiance

The Ci4400 is equipped with the latest in Atlas’ controlled irradiance technology allowing for greater precision and repeatability in weathering testing. Up to 2-sun irradiance levels or higher can be achieved depending on your test requirements. Narrow band (340 nm or 420 nm) or broad band (300-400 nm) irradiance control is available with optional monitoring at a second wavelength to meet global test requirements.



Filter Combinations		Test Conditions	Irradiance Ranges [W/m ²]			
Inner	Outer		Lamp Power	300-400 nm	340 nm	420 nm
Right Light®	Quartz	Weathering tests requiring the most precise match to sunlight available (Meets Daylight filter requirements)	Min Max	26 160	0.26 1.60	0.50 3.10
Right Light	CIRA Coated Quartz	Weathering tests requiring the most precise match to sunlight available and lower test specimen temperatures (Meets Daylight filter requirements)	Min Max	26 160	0.26 1.60	0.50 3.10
Type S Boro	Type S Boro	Most common combination for weathering tests (Meets Daylight filter requirements)	Min Max	24 150	0.22 1.50	0.53 3.40
Type S Boro	Soda Lime	Most common combination for indoor (lightfastness) tests (Meets Window Glass filter requirements)	Min Max	23 135	0.20 1.13	0.52 2.90
Quartz	Type S Boro	Weathering tests with somewhat more and shorter UV than sunlight (Meets Extended UV filter requirements)	Min Max	26 162	0.25 1.58	0.54 3.42
Type S Boro	Soda Lime + Float Glass in Auxiliary Lantern	Common combination for testing European automotive interior trim materials	Min Max	19 120	0.14 0.86	0.49 2.75
Quartz	CIRA on Soda Lime + Float Glass in Auxiliary Lantern	Lightfastness test for automotive interior materials to meet GMW 3414TM	Min Max	N/A	N/A	2.20
Quartz	Type S Boro + 335 nm long pass filter in Auxiliary Lantern	Lightfastness test for automotive interior materials to meet Ford FLTM B0 116-01	Min Max	N/A	N/A	1.06