

Filter Combination Charts

Filter Combinations		Test Conditions	Irradiance Ranges W/m ²			
Inner	Outer		Wattage	300-400 nm	340 nm	420 nm
Ci3000+			Min. Max.			
Right Light™	Quartz	Weathering tests requiring a precise match for solar cut-on, full spectrum match and/or cooler test temperatures	1800 W 4500 W	48 180	0.49 1.77	0.95 3.34
Type S Boro	Type S Boro	Most common combination for weathering tests (Daylight filter system)	1800 W 4500 W	40 151	0.35 1.33	0.85 3.08
Type S Boro	Soda Lime	Most common combination for lightfastness tests behind window glass	1800 W 4500 W	35 136	0.28 1.12	0.83 3.09
Type S Boro	Soda Lime + Float Glass in Auxiliary Lantern	Common combination for testing European automotive interior trim materials (Requires lantern assembly)	1800 W 4500 W	29 112	0.21 0.82	0.74 2.75
Quartz	Type S Boro	Weathering tests with somewhat more and shorter UV than sunlight	1800 W 4500 W	45 172	0.42 1.61	0.85 3.09
Quartz	Quartz	Testing with consistently more and shorter (unrealistic) UV than global solar radiation	1800 W 4500 W	52 205	0.48 1.92	0.87 3.21
Quartz	Cira on Type S Boro	Weathering tests requiring full spectrum match and/or cooler test temperatures	1800 W 4500 W	47 181	0.44 1.74	0.88 3.24
Ci4000			Min. Max.			
Right Light	Quartz	Weathering tests requiring the most precise match to sunlight available	2500 W 7500 W	35 168	0.35 1.68	0.66 2.99
Right Light	CIRA Coated Quartz	Weathering tests requiring the most precise match to sunlight available and lower test specimen temperatures	2500 W 7500 W	35 169	0.34 1.69	0.66 2.99
Type S Boro	Type S Boro	Most common combination for weathering tests (Daylight filter system)	2500 W 7500 W	29 141	0.25 1.26	0.59 2.76
Type S Boro	Soda Lime	Most common combination for lightfastness tests behind window glass	2500 W 7500 W	28 129	0.23 1.10	0.61 2.76
Quartz	Type S Boro	Weathering tests with somewhat more and shorter UV than sunlight	2500 W 7500 W	32 161	0.29 1.50	0.59 2.79
Quartz	Cira on Type S Boro	Weathering tests requiring full spectrum match and/or lower test temperatures	2500 W 7500 W	33 168	0.31 1.57	0.60 2.93
Type S Boro	Soda Lime + Float Glass in Auxiliary Lantern	Common combination for testing European automotive interior trim materials (Requires lantern assembly)	2500 W 7500 W	23 109	0.17 0.82	0.56 2.54
Quartz	Cira on Soda Lime + Float Glass in Auxiliary Lantern	Lightfastness test for automotive interior materials to meet GMW 3414TM		97	0.80	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		46	0.38	1.06
HL 35/65/4000	HL 3000/4000	Lightfastness test for automotive interior materials according to ISO 105-B06, VDA 75202 and European company specifications		60	0.55	1.40
Ci5000			Min. Max.			
Right Light	Quartz	Weathering tests requiring the most precise match to sunlight available	5000 W 14000 W	42 169	0.40 1.68	0.81 3.13
Right Light	CIRA Coated Quartz	Weathering tests requiring the most precise match to sunlight available and lower test specimen temperatures	5000 W 14000 W	42 170	0.40 1.66	0.81 3.20
Type S Boro	Type S Boro	Most common combination for weathering tests (Daylight filter system)	5000 W 14000 W	33 139	0.28 1.24	0.71 2.87
Type S Boro	Soda Lime	Most common combination for lightfastness tests behind window glass	5000 W 14000 W	31 128	0.26 1.09	0.73 2.87
Type S Boro	Soda Lime + Float Glass in Auxiliary Lantern	Common combination for testing European automotive interior trim materials (Requires lantern assembly)	5000 W 14000 W	26 108	0.20 0.81	0.67 2.63
Quartz	Type S Boro	Weathering tests with somewhat more and shorter UV than sunlight	5000 W 14000 W	39 158	0.35 1.48	0.74 2.90
Quartz	Cira on Type S Boro	Weathering tests requiring full spectrum match and/or lower test temperatures	5000 W 14000 W	40 166	0.37 1.55	0.78 3.04
Quartz	Cira on Soda Lime + Float Glass in Auxiliary Lantern	Lightfastness test for automotive interior materials to meet GMW 3414TM		91	0.75	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		45	0.34	1.06