

Photometric test report

Family Silica® 21	Order number: 51MX16DA44WB EAN: 4058352907597	LP number 59267_150
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	4.1	4.1
5°	690.7	689.7	686.1	690.3	692.9	690.5	692.9	33.0	37.1
10°	683.8	683.7	680.0	686.1	689.1	688.2	691.7	65.3	102.4
15°	679.8	682.8	679.6	683.5	685.2	682.6	683.9	96.8	199.2
20°	659.2	666.3	668.8	670.3	667.9	663.4	663.6	124.9	324.1
25°	596.3	606.7	617.7	624.9	617.5	607.1	599.6	141.8	465.9
30°	510.4	519.4	522.0	521.4	520.1	511.7	507.7	141.8	607.7
35°	439.7	447.6	431.3	414.6	422.9	421.6	413.2	134.4	742.1
40°	337.7	347.1	337.5	327.0	327.2	315.0	300.9	115.9	857.9
45°	183.5	191.6	192.8	192.4	185.5	172.4	164.1	71.6	929.5
50°	72.2	76.5	81.6	85.0	79.2	72.7	70.3	32.6	962.2
55°	28.9	31.6	36.0	41.5	36.6	30.9	28.5	15.4	977.5
60°	17.8	18.8	20.5	22.6	20.4	18.4	17.4	9.4	986.9
65°	11.5	12.0	12.6	12.8	12.4	11.7	11.3	6.0	992.9
70°	7.8	8.1	7.5	7.2	7.4	7.8	7.7	3.9	996.9
75°	3.2	3.4	3.7	3.8	3.8	3.6	3.3	1.9	998.8
80°	1.5	1.5	1.5	1.6	1.6	1.6	1.6	0.8	999.6
85°	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.4	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	19.2	20.5	19.5	20.8	21.1	18.8	20.1	19.2	20.4	20.8
	3H	19.1	20.2	19.5	20.6	20.9	18.7	19.9	19.1	20.2	20.6
	4H	19.0	20.1	19.4	20.4	20.8	18.7	19.8	19.1	20.1	20.5
	6H	19.0	19.9	19.4	20.3	20.7	18.6	19.6	19.1	20.0	20.4
	8H	19.0	19.9	19.5	20.2	20.6	18.7	19.5	19.1	19.9	20.3
	12H	19.0	19.8	19.4	20.2	20.6	18.7	19.4	19.1	19.8	20.2
4H	2H	19.0	20.1	19.4	20.4	20.8	18.7	19.7	19.1	20.1	20.5
	3H	19.0	19.8	19.4	20.2	20.6	18.6	19.5	19.1	19.9	20.3
	4H	18.9	19.7	19.3	20.1	20.5	18.6	19.3	19.0	19.8	20.2
	6H	18.8	19.5	19.3	19.9	20.4	18.5	19.2	19.0	19.6	20.1
	8H	18.8	19.4	19.3	19.8	20.3	18.5	19.1	18.9	19.5	20.0
	12H	18.8	19.3	19.3	19.7	20.2	18.5	19.0	19.0	19.4	19.9
8H	4H	18.8	19.4	19.3	19.8	20.3	18.5	19.1	18.9	19.5	20.0
	6H	18.7	19.2	19.2	19.7	20.2	18.4	18.9	18.9	19.3	19.9
	8H	18.7	19.1	19.2	19.6	20.1	18.3	18.8	18.8	19.3	19.8
	12H	18.6	19.0	19.2	19.5	20.0	18.3	18.7	18.8	19.2	19.7
12H	4H	18.8	19.3	19.3	19.7	20.2	18.5	19.0	19.0	19.4	19.9
	6H	18.7	19.1	19.2	19.6	20.1	18.4	18.8	18.9	19.2	19.8
	8H	18.6	19.0	19.2	19.5	20.0	18.3	18.7	18.8	19.2	19.7

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1176 B = 49	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m ²						
45°	19452.8	20315.3	20437.6	20402.6	19662.5	18275.0	17396.7
50°	8421.2	8918.7	9514.3	9918.7	9238.0	8480.2	8204.5
55°	3783.2	4132.5	4709.4	5424.9	4781.9	4042.7	3721.5
60°	2665.3	2812.8	3074.2	3383.2	3063.4	2762.6	2614.2
65°	2041.8	2125.7	2242.6	2265.1	2195.7	2077.8	2006.6
70°	1720.5	1771.1	1648.1	1580.8	1614.6	1716.9	1691.5
75°	917.1	996.7	1066.8	1114.6	1106.5	1039.6	964.8
80°	635.9	648.0	667.0	671.8	692.9	707.2	702.4
85°	567.7	567.7	586.6	605.6	643.4	676.1	671.8

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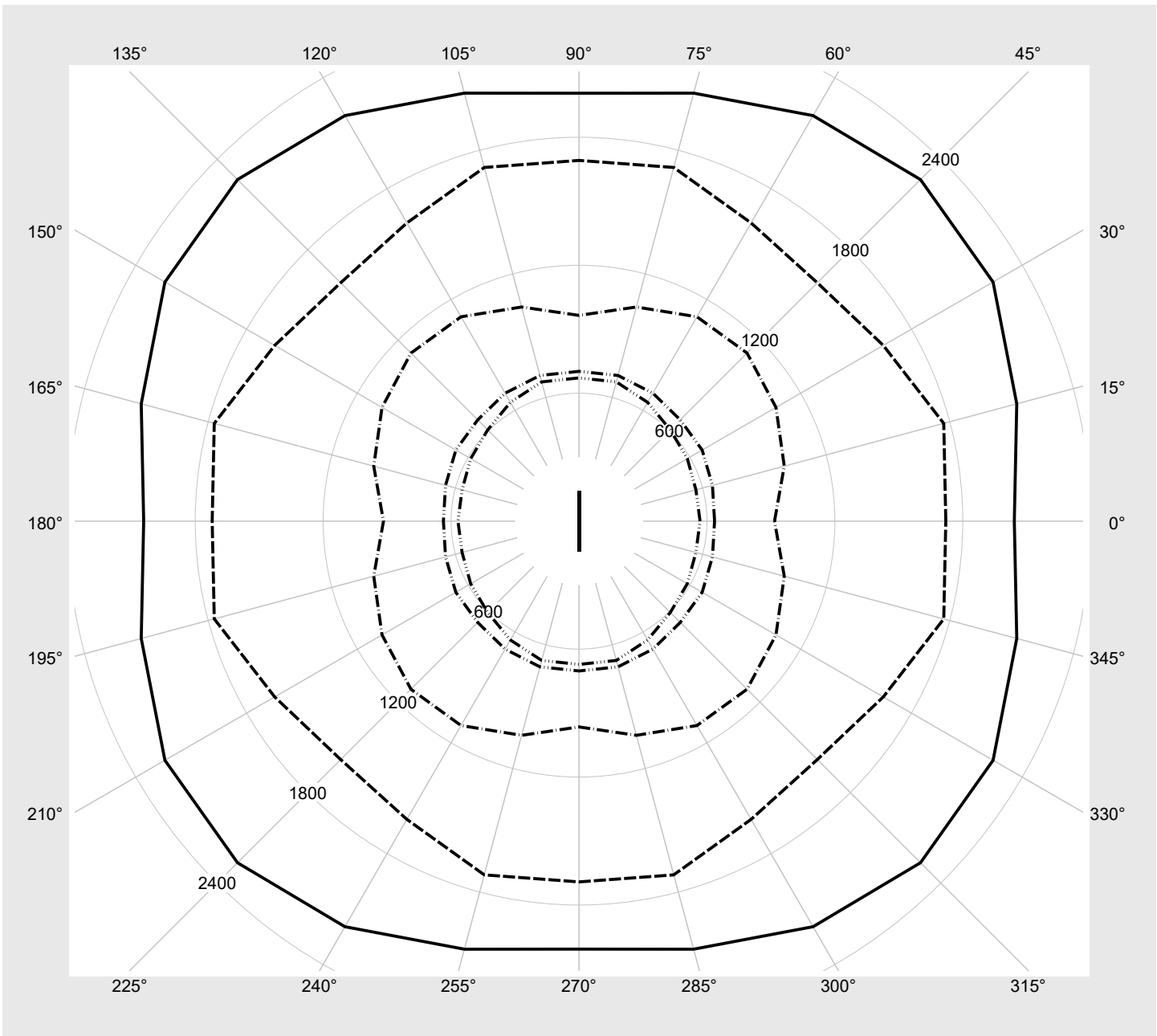
Family
Silica® 21

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4320	23.4
95	241	252	4111	22.2
90	227	250	3883	20.9
85	214	248	3671	19.7
80	201	245	3457	18.5
75	188	243	3242	17.3
70	175	240	3025	16.1
65	162	238	2808	15.0
60	149	234	2587	13.8
55	137	231	2384	12.7
50	124	228	2162	11.5
45	111	224	1939	10.3
40	99	219	1733	9.3
35	86	214	1508	8.2
30	74	209	1299	7.1
25	62	202	1088	6.2
20	49	194	860	5.0
15	37	183	647	4.0
10	25	169	435	3.0
5	13	145	222	1.8
3	9	132	151	1.3