

Photometric test report

Family Silica® 21	Order number: 51MX30DB35BB EAN: 4058352886533	LP number 59413_69
Table of values for luminous intensities		Maximum luminous intensity



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°	201.3	201.3	201.3	201.3	201.3	201.3	201.3	1.2	1.2
5°	200.8	201.1	200.5	200.6	200.7	201.0	200.8	9.6	10.8
10°	197.6	197.2	197.1	197.6	198.5	197.9	198.4	18.8	29.6
15°	194.2	193.6	192.5	193.4	194.0	194.3	194.2	27.5	57.1
20°	188.0	187.6	186.2	187.1	187.3	187.7	188.7	35.1	92.2
25°	178.4	178.6	177.9	178.8	179.9	179.8	180.8	41.5	133.7
30°	169.6	169.4	168.2	169.6	170.9	170.8	170.9	46.6	180.3
35°	158.4	158.6	157.6	158.2	158.8	159.6	160.3	49.9	230.1
40°	146.7	146.4	146.5	146.2	147.1	147.3	148.6	51.7	281.9
45°	132.6	132.7	133.0	133.0	133.6	133.9	135.7	51.7	333.6
50°	117.1	118.0	118.4	118.9	120.0	120.2	120.9	50.0	383.6
55°	102.6	102.7	103.4	103.9	104.8	104.8	105.8	46.7	430.3
60°	86.0	86.4	86.9	87.2	88.6	88.7	90.0	41.6	471.9
65°	69.1	69.7	70.6	71.5	72.2	72.9	72.9	35.4	507.3
70°	51.3	52.3	52.8	54.1	55.2	55.9	56.2	27.8	535.1
75°	33.8	34.6	35.2	36.4	37.6	38.6	38.9	19.3	554.4
80°	17.8	18.1	18.7	19.5	20.7	21.6	21.9	10.7	565.1
85°	5.8	6.0	6.3	6.7	7.3	8.0	8.2	3.8	568.8
90°	5.3	5.2	5.5	5.5	3.6	1.7	1.1	2.3	571.1
95°	23.1	23.6	25.3	23.9	15.3	7.9	4.1	10.0	581.1
100°	41.3	42.4	42.7	37.4	25.1	14.2	9.3	16.8	597.9
105°	59.2	60.4	59.2	50.6	34.6	21.4	15.7	23.3	621.2
110°	79.5	79.8	74.8	62.3	44.4	29.0	22.5	29.3	650.4
115°	97.2	96.3	88.8	73.1	53.8	36.6	30.0	34.1	684.6
120°	111.8	110.0	100.3	81.8	62.6	44.0	37.3	37.4	722.0
125°	121.3	118.0	107.2	89.8	70.0	51.0	45.1	38.9	760.9
130°	124.6	121.9	110.5	94.5	75.7	58.3	52.9	38.5	799.3
135°	124.4	121.9	111.7	97.7	80.2	65.0	60.7	36.8	836.1
140°	122.4	120.5	112.1	100.0	84.0	71.4	68.8	34.3	870.4
145°	120.4	119.1	112.0	101.3	87.5	77.3	75.5	31.2	901.5
150°	117.6	117.1	110.8	101.2	90.4	83.0	81.5	27.5	929.0
155°	114.3	114.0	108.0	100.7	92.6	88.1	86.9	23.3	952.4
160°	109.8	109.5	104.7	99.9	94.6	92.0	91.8	18.8	971.2
165°	104.9	104.4	101.9	98.7	96.5	95.2	95.3	14.1	985.3
170°	101.3	100.8	100.1	98.8	97.8	97.7	97.7	9.4	994.7
175°	99.2	99.0	98.5	98.3	98.4	98.4	98.4	4.7	999.4
180°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	0.6	1000.0

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UGR-Table	Standard room	siteco
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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	18.5	19.5	19.3	20.4	21.5	18.7	19.7	19.5	20.5	21.6
	3H	19.9	20.8	20.7	21.7	22.8	20.2	21.1	21.0	22.0	23.1
	4H	20.4	21.2	21.2	22.1	23.2	20.8	21.6	21.6	22.5	23.6
	6H	20.6	21.4	21.5	22.3	23.4	21.1	21.9	22.0	22.8	24.0
	8H	20.6	21.3	21.5	22.3	23.4	21.1	21.8	22.0	22.8	23.9
	12H	20.6	21.2	21.5	22.2	23.4	21.2	21.8	22.1	22.8	24.0
4H	2H	19.1	20.0	20.0	20.8	22.0	19.2	20.0	20.0	20.9	22.0
	3H	20.7	21.4	21.6	22.3	23.5	20.9	21.6	21.8	22.5	23.7
	4H	21.2	21.9	22.2	22.8	24.0	21.6	22.2	22.5	23.2	24.3
	6H	21.6	22.1	22.5	23.1	24.3	22.0	22.6	23.0	23.5	24.7
	8H	21.6	22.1	22.6	23.1	24.3	22.1	22.7	23.1	23.6	24.8
	12H	21.6	22.0	22.6	23.0	24.3	22.2	22.6	23.1	23.6	24.8
8H	4H	21.4	21.9	22.4	22.9	24.1	21.7	22.2	22.6	23.2	24.4
	6H	21.9	22.3	22.8	23.3	24.5	22.3	22.7	23.2	23.6	24.9
	8H	22.0	22.3	23.0	23.3	24.6	22.5	22.8	23.5	23.8	25.1
	12H	22.0	22.3	23.0	23.3	24.6	22.6	22.9	23.6	23.9	25.1
12H	4H	21.4	21.8	22.3	22.8	24.0	21.6	22.1	22.6	23.0	24.3
	6H	21.9	22.2	22.8	23.2	24.5	22.3	22.6	23.2	23.6	24.9
	8H	22.0	22.3	23.0	23.3	24.6	22.5	22.8	23.5	23.8	25.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 50
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		13156.1	13164.1	13188.9	13190.6	13249.1	13284.1	13460.3	
50°		12780.6	12877.8	12914.4	12969.0	13089.2	13112.0	13193.9	
55°		12549.0	12562.9	12638.5	12701.4	12818.4	12819.4	12936.6	
60°		12066.4	12114.6	12184.8	12232.9	12427.8	12444.3	12617.4	
65°		11460.1	11574.8	11708.2	11863.9	11977.2	12097.6	12096.9	
70°		10518.8	10716.2	10825.3	11101.1	11318.7	11458.1	11530.9	
75°		9167.9	9384.9	9536.9	9866.7	10199.5	10464.2	10534.1	
80°		7174.2	7311.5	7563.1	7890.6	8365.6	8722.2	8828.9	
85°		4638.2	4791.9	5048.6	5421.2	5907.2	6403.7	6632.3	

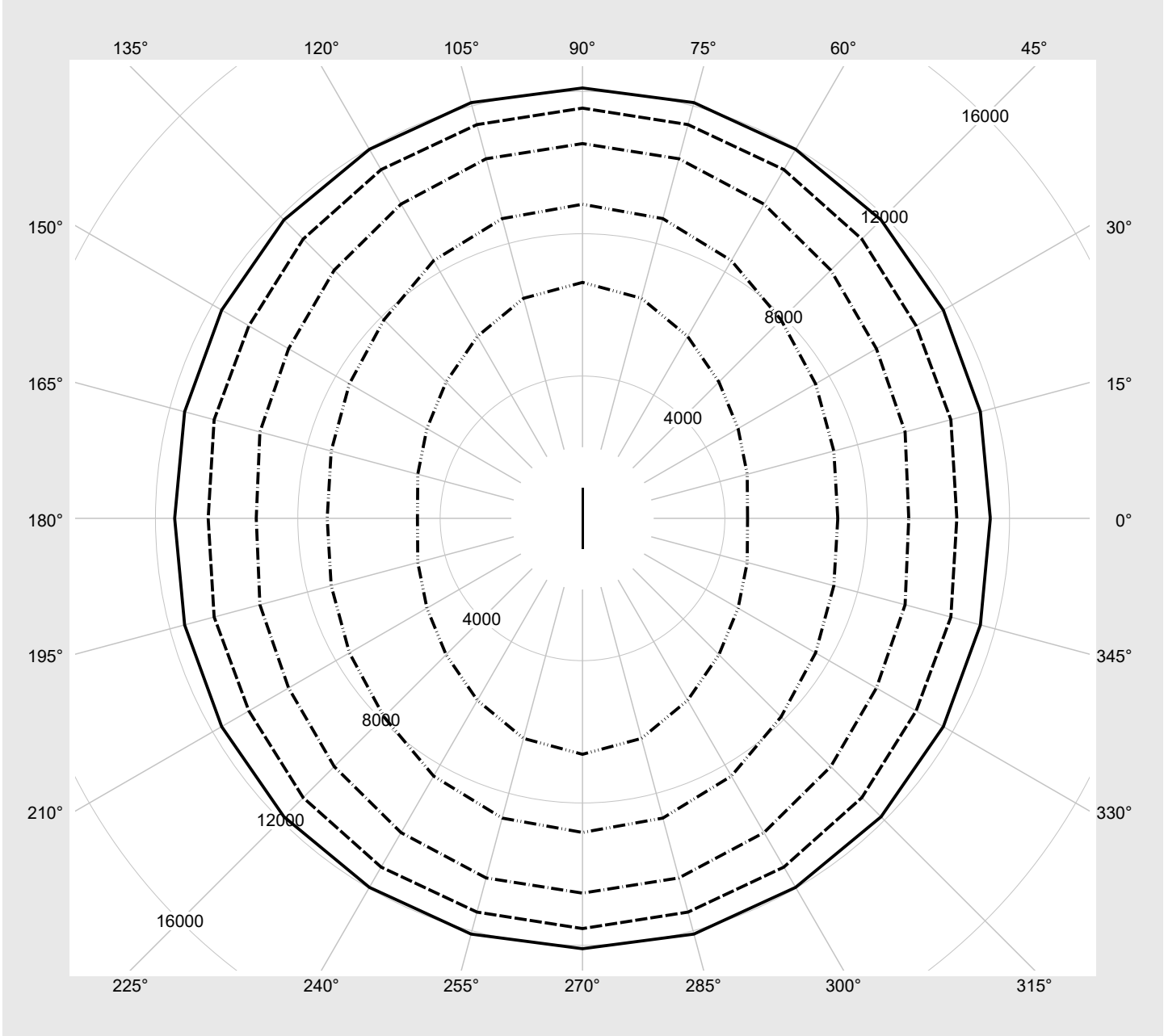
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Luminance values in cd/m²

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	5260	34.1
95	241	252	4999	32.4
90	228	250	4737	30.6
85	215	248	4474	29.0
80	202	246	4210	27.5
75	189	243	3945	25.8
70	176	241	3679	24.2
65	163	238	3412	22.6
60	151	235	3165	21.1
55	138	232	2896	19.4
50	125	228	2626	17.7
45	113	224	2376	16.1
40	100	220	2101	14.4
35	88	215	1850	12.7
30	75	209	1577	11.0
25	63	203	1324	9.5
20	50	194	1048	7.8
15	38	184	794	6.2
10	25	169	517	4.3
5	13	145	261	2.5
3	8	127	154	1.6