

Photometric test report

Family Silica® 21	Order number: 51MX30TAT4W EAN: 4058352685242	LP number 59412_29
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
		Luminous intensity in cd/klm							
0°	204.1	204.1	204.1	204.1	204.1	204.1	204.1	1.2	1.2
5°	203.5	203.8	203.3	203.3	203.4	203.8	203.6	9.7	10.9
10°	200.3	199.9	199.8	200.3	201.2	200.6	201.1	19.1	30.0
15°	196.9	196.3	195.1	196.0	196.7	197.0	196.8	27.9	57.9
20°	190.5	190.1	188.7	189.7	189.8	190.2	191.2	35.6	93.5
25°	180.9	181.1	180.3	181.3	182.3	182.2	183.2	42.1	135.5
30°	172.0	171.7	170.5	171.9	173.3	173.2	173.3	47.2	182.7
35°	160.6	160.7	159.7	160.3	160.9	161.7	162.5	50.6	233.3
40°	148.7	148.4	148.5	148.2	149.1	149.3	150.6	52.5	285.7
45°	134.5	134.5	134.8	134.8	135.4	135.8	137.6	52.4	338.1
50°	118.7	119.6	120.0	120.5	121.6	121.8	122.6	50.7	388.8
55°	104.0	104.1	104.8	105.3	106.3	106.3	107.2	47.3	436.2
60°	87.2	87.5	88.1	88.4	89.8	89.9	91.2	42.2	478.3
65°	70.0	70.7	71.5	72.5	73.2	73.9	73.9	35.9	514.2
70°	52.0	53.0	53.5	54.9	56.0	56.6	57.0	28.2	542.4
75°	34.3	35.1	35.7	36.9	38.2	39.1	39.4	19.6	562.0
80°	18.0	18.4	19.0	19.8	21.0	21.9	22.2	10.8	572.8
85°	5.8	6.0	6.3	6.8	7.4	8.1	8.3	3.8	576.6
90°	6.3	6.1	6.5	6.3	3.9	1.8	1.1	2.6	579.2
95°	21.6	22.1	23.8	22.9	15.1	7.9	4.1	9.5	588.7
100°	38.0	39.1	40.0	35.9	24.8	14.2	9.4	16.0	604.7
105°	54.7	56.0	55.9	49.2	34.1	21.4	15.7	22.2	626.9
110°	74.8	75.5	71.9	60.8	43.8	28.8	22.2	28.3	655.2
115°	92.7	92.3	86.1	71.6	53.1	36.3	29.5	33.2	688.4
120°	108.0	106.6	98.3	80.7	62.0	43.6	36.5	36.7	725.0
125°	119.6	116.6	106.6	89.4	69.8	50.5	44.0	38.5	763.5
130°	125.1	122.5	111.1	94.7	75.6	57.5	51.4	38.5	802.0
135°	126.1	123.5	112.8	98.1	79.9	63.9	58.8	36.9	838.9
140°	124.1	122.0	113.0	100.2	83.2	69.8	66.5	34.3	873.1
145°	121.3	120.0	112.4	100.8	86.1	75.2	72.7	31.0	904.1
150°	117.8	117.1	110.2	99.7	88.4	80.4	78.4	27.1	931.3
155°	113.3	112.8	106.2	98.4	90.0	85.0	83.4	22.8	954.1
160°	107.2	106.9	101.9	96.9	91.4	88.5	88.0	18.2	972.3
165°	101.6	101.0	98.5	95.2	92.8	91.2	91.2	13.6	985.9
170°	97.5	97.0	96.2	94.8	93.7	93.4	93.4	9.1	994.9
175°	94.9	94.8	94.2	94.0	94.0	94.0	94.0	4.5	999.4
180°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	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	19.6	19.3	20.4	21.5	18.7	19.7	19.5	20.6	21.6
	3H	19.9	20.8	20.8	21.7	22.8	20.2	21.2	21.1	22.0	23.1
	4H	20.4	21.3	21.3	22.1	23.3	20.8	21.7	21.7	22.6	23.7
	6H	20.6	21.4	21.5	22.3	23.5	21.1	21.9	22.0	22.8	24.0
	8H	20.6	21.4	21.5	22.3	23.5	21.1	21.9	22.0	22.8	24.0
	12H	20.6	21.3	21.5	22.2	23.4	21.2	21.9	22.1	22.8	24.0
4H	2H	19.1	20.0	20.0	20.9	22.0	19.2	20.1	20.1	20.9	22.1
	3H	20.7	21.4	21.6	22.3	23.5	20.9	21.6	21.8	22.5	23.7
	4H	21.3	21.9	22.2	22.8	24.0	21.6	22.3	22.5	23.2	24.4
	6H	21.6	22.1	22.5	23.1	24.3	22.1	22.6	23.0	23.6	24.8
	8H	21.7	22.2	22.6	23.1	24.3	22.2	22.7	23.1	23.6	24.9
	12H	21.6	22.1	22.6	23.0	24.3	22.2	22.7	23.2	23.6	24.9
8H	4H	21.4	22.0	22.4	22.9	24.1	21.7	22.2	22.7	23.2	24.4
	6H	21.9	22.3	22.9	23.3	24.5	22.3	22.7	23.3	23.7	24.9
	8H	22.0	22.4	23.0	23.4	24.6	22.5	22.9	23.5	23.9	25.1
	12H	22.0	22.3	23.0	23.3	24.6	22.6	22.9	23.6	23.9	25.2
12H	4H	21.4	21.8	22.4	22.8	24.1	21.7	22.1	22.6	23.1	24.3
	6H	21.9	22.3	22.9	23.2	24.5	22.3	22.6	23.3	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 = 1200
			B = 50

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°		13056.9	13064.8	13089.5	13091.1	13149.4	13184.0	13358.8	
50°		12684.2	12780.7	12817.0	12871.3	12990.5	13013.1	13094.5	
55°		12454.4	12468.3	12543.2	12605.7	12721.9	12722.9	12839.1	
60°		11975.5	12023.3	12093.0	12140.8	12334.0	12350.5	12522.3	
65°		11373.7	11487.6	11620.0	11774.2	11887.0	12006.4	12005.7	
70°		10439.1	10635.5	10743.7	11017.5	11233.4	11371.9	11444.2	
75°		9099.0	9314.4	9464.8	9792.2	10122.5	10385.5	10454.7	
80°		7119.8	7256.2	7506.2	7831.2	8302.6	8656.9	8762.5	
85°		4582.2	4744.5	5001.3	5371.6	5850.7	6349.4	6571.6	

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

