

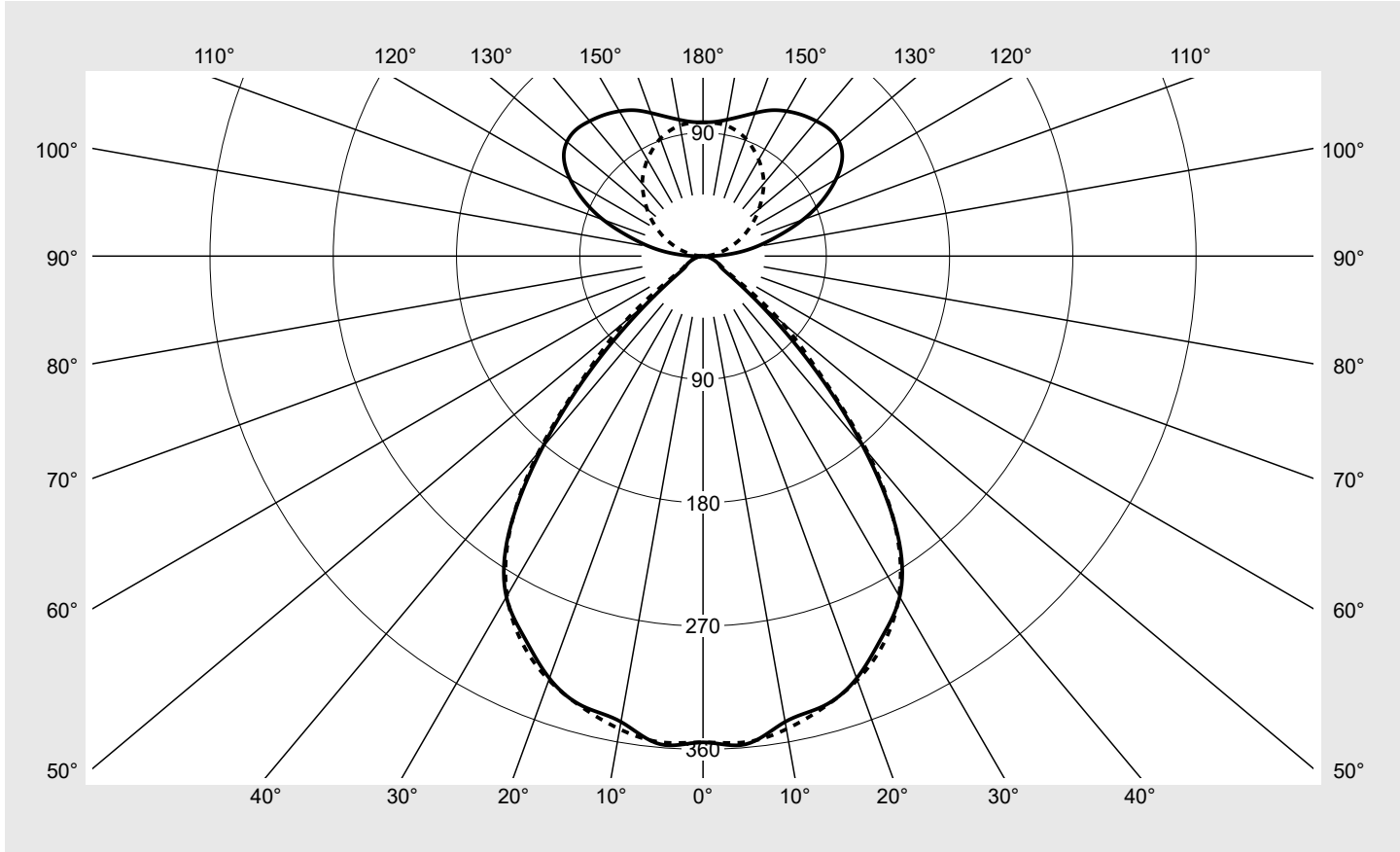


Photometric test report

Family Silica® 21	Order number: 51MX33TAT7W EAN: 4058352685600	LP number 59332_29
	Version Suspended luminaire, with homogeneous illumination, prismatic cover, direct-/ indirect distribution, extremely wide distribution, UGR≤16 (L65≤3000cd/m²), tunable white Lamps LED 2700 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position Rated values Net luminous flux = 5740 lm Power consumption = 61.0 W Luminous efficacy = 94.1 lm/W	serial documentation 03.05.2023 

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 358 cd/klm**



Classifications	
DIN 5040	C 6 2
CIE	N1=78 N2=96 N3=99 N4=56 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	56.2%
ϕ_o	43.8%

Measurement conditions
 DIN EN 13032 and DIN 5032

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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°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	2.1	2.1
5°	357.6	358.3	358.1	358.3	357.8	357.0	356.1	17.1	19.2
10°	345.2	344.3	344.5	346.4	350.1	350.3	350.6	33.1	52.3
15°	340.0	338.8	336.2	336.1	338.1	341.2	341.0	48.0	100.3
20°	328.0	327.2	323.2	324.1	322.5	324.8	329.3	60.9	161.2
25°	307.9	308.7	306.4	306.5	306.8	306.6	312.0	71.2	232.5
30°	287.2	287.0	283.4	284.9	285.2	284.2	286.2	78.2	310.6
35°	247.5	247.0	244.6	246.0	246.7	245.6	246.4	77.4	388.0
40°	182.5	182.1	183.5	184.7	186.1	185.9	187.0	65.0	453.0
45°	111.7	111.4	112.8	114.1	115.4	116.9	119.1	44.3	497.3
50°	52.4	60.7	68.3	62.5	56.3	66.9	74.7	26.5	523.8
55°	21.3	28.6	27.1	30.9	23.3	32.2	30.0	12.6	536.4
60°	14.3	14.9	15.7	14.6	14.6	15.6	16.3	7.2	543.6
65°	11.8	11.7	12.2	11.9	12.4	12.3	12.4	6.0	549.6
70°	8.5	8.7	9.0	9.0	9.2	9.3	9.8	4.7	554.2
75°	5.9	6.2	6.8	6.5	6.6	7.0	7.1	3.5	557.7
80°	3.6	3.8	4.2	4.6	4.2	4.7	4.8	2.3	560.0
85°	1.8	1.8	1.8	2.1	2.2	2.6	2.7	1.2	561.2
90°	6.2	6.0	6.3	6.0	3.5	1.2	0.4	2.4	563.6
95°	22.4	22.9	24.7	23.8	15.7	8.2	4.2	9.9	573.5
100°	39.4	40.6	41.5	37.2	25.7	14.7	9.7	16.6	590.1
105°	56.7	58.1	58.0	51.0	35.4	22.2	16.2	23.0	613.1
110°	77.6	78.3	74.6	63.1	45.4	29.8	23.1	29.3	642.4
115°	96.2	95.7	89.3	74.3	55.1	37.6	30.6	34.4	676.8
120°	112.0	110.6	101.9	83.7	64.3	45.2	37.9	38.0	714.8
125°	124.0	121.0	110.5	92.7	72.3	52.4	45.6	39.9	754.8
130°	129.8	127.1	115.2	98.2	78.4	59.6	53.3	39.9	794.7
135°	130.8	128.1	117.0	101.7	82.9	66.3	61.0	38.2	832.9
140°	128.7	126.6	117.2	103.9	86.2	72.4	69.0	35.5	868.4
145°	125.8	124.5	116.6	104.5	89.3	78.0	75.4	32.1	900.6
150°	122.1	121.5	114.3	103.4	91.6	83.4	81.3	28.1	928.7
155°	117.5	116.9	110.1	102.0	93.3	88.1	86.5	23.6	952.4
160°	111.2	110.8	105.7	100.5	94.8	91.7	91.2	18.9	971.3
165°	105.4	104.8	102.1	98.7	96.3	94.6	94.6	14.1	985.4
170°	101.1	100.5	99.8	98.3	97.2	96.9	96.9	9.4	994.7
175°	98.4	98.3	97.7	97.5	97.5	97.5	97.5	4.7	999.4
180°	97.7	97.7	97.7	97.7	97.7	97.7	97.7	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	15.4	16.3	16.3	17.2	18.3	15.6	16.5	16.5	17.4	18.5
	3H	15.3	16.1	16.2	17.0	18.1	15.6	16.4	16.5	17.3	18.4
	4H	15.3	16.0	16.2	16.9	18.1	15.6	16.3	16.5	17.2	18.4
	6H	15.2	15.8	16.1	16.8	17.9	15.6	16.2	16.5	17.1	18.3
	8H	15.1	15.7	16.1	16.7	17.9	15.5	16.0	16.4	17.0	18.2
	12H	15.0	15.6	16.0	16.5	17.8	15.5	16.0	16.4	17.0	18.2
4H	2H	15.2	15.9	16.1	16.8	17.9	15.3	16.0	16.2	16.9	18.1
	3H	15.2	15.8	16.1	16.7	17.9	15.4	16.0	16.3	16.9	18.1
	4H	15.2	15.7	16.1	16.7	17.9	15.4	16.0	16.4	16.9	18.1
	6H	15.2	15.6	16.1	16.6	17.8	15.5	15.9	16.5	16.9	18.1
	8H	15.1	15.5	16.1	16.5	17.8	15.5	15.9	16.5	16.9	18.1
	12H	15.1	15.4	16.1	16.4	17.7	15.5	15.9	16.5	16.8	18.1
8H	4H	15.1	15.5	16.0	16.4	17.7	15.3	15.7	16.2	16.6	17.9
	6H	15.1	15.5	16.1	16.5	17.7	15.4	15.7	16.4	16.7	18.0
	8H	15.1	15.4	16.1	16.4	17.7	15.5	15.8	16.5	16.8	18.1
	12H	15.1	15.3	16.1	16.3	17.6	15.6	15.8	16.6	16.8	18.1
12H	4H	15.0	15.3	16.0	16.3	17.6	15.2	15.5	16.2	16.5	17.8
	6H	15.1	15.3	16.1	16.3	17.6	15.3	15.6	16.4	16.6	17.9
	8H	15.1	15.3	16.1	16.3	17.6	15.4	15.7	16.5	16.7	18.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1200 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°	45°	15106.7	15074.0	15263.2	15443.0	15610.3	15809.5	16118.8	
50°	50°	7801.6	9038.1	10164.1	9302.1	8383.0	9956.2	11114.7	
55°	55°	3547.1	4778.0	4513.3	5156.1	3894.2	5377.3	4998.2	
60°	60°	2745.3	2849.0	3011.4	2791.4	2801.7	2979.6	3114.3	
65°	65°	2667.1	2646.2	2752.2	2684.9	2798.8	2794.5	2815.1	
70°	70°	2385.9	2430.7	2529.1	2528.9	2568.9	2598.2	2732.2	
75°	75°	2190.8	2273.9	2505.7	2393.0	2448.4	2573.3	2635.4	
80°	80°	1978.9	2096.3	2312.2	2516.6	2334.3	2604.2	2666.5	
85°	85°	1924.2	1950.5	2027.4	2346.8	2464.2	2819.9	2939.5	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

