

Photometric test report

Family
Silica® 21



Order number: **51MX33DN3BBB**
EAN: **4069025109392**

LP number
59331_124

serial
documentation
19.03.2024

Version

Suspended luminaire, with homogeneous illumination, prismatic cover, direct-/ indirect distribution, extremely wide distribution, $UGR \leq 16$ ($L65 \leq 3000 \text{ cd/m}^2$)

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 13300 lm

Power consumption = 89.3 W

Luminous efficacy = 148.9 lm/W

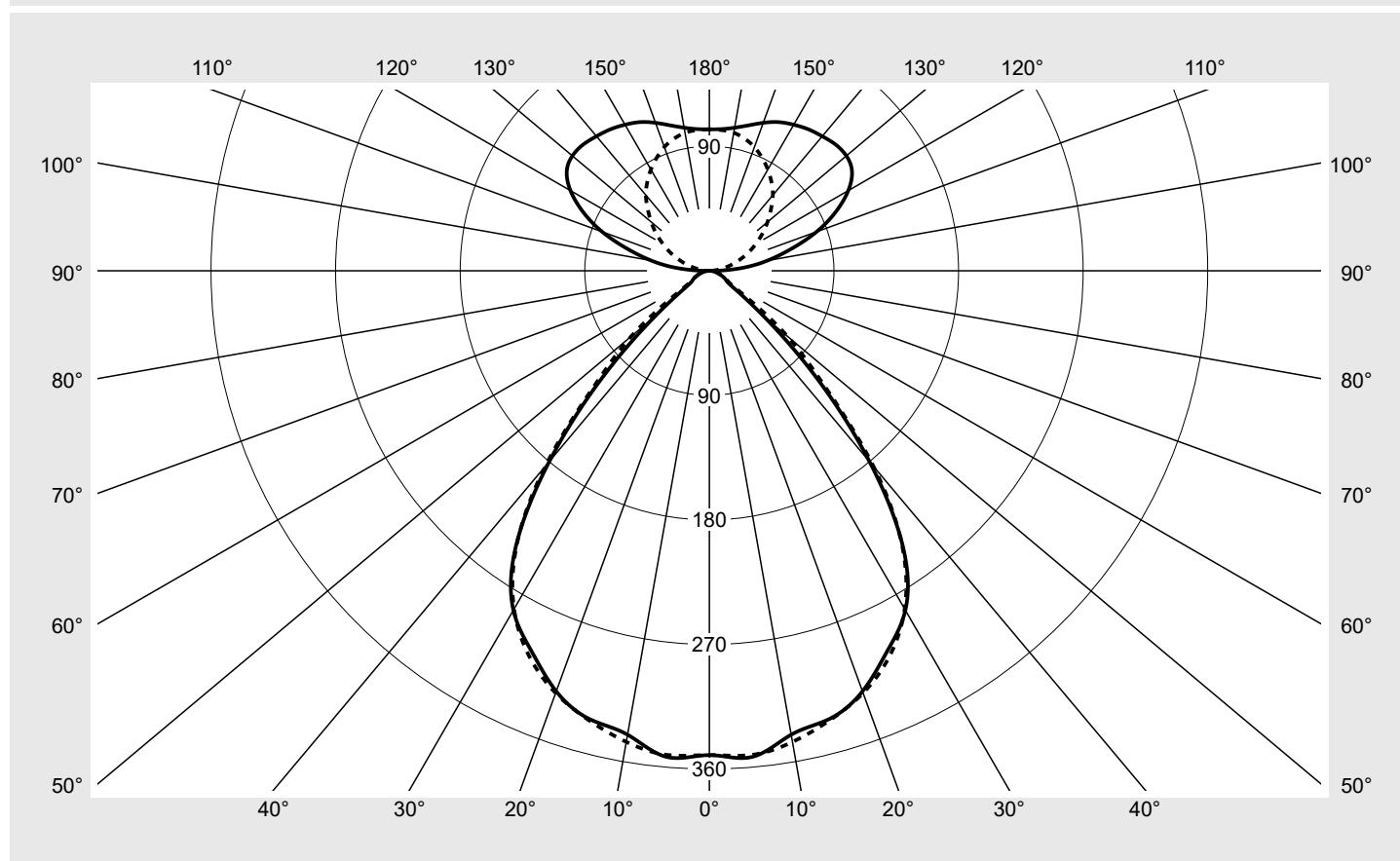
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 353 cd/klm



Classifications

DIN 5040 C 6 2
CIE N1=78 N2=96 N3=99
N4=55 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 55.4%
 ϕ_o 44.6%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	349.9	349.9	349.9	349.9	349.9	349.9	349.9	2.1	2.1
5°	352.7	353.3	353.1	353.3	352.9	352.0	351.1	16.9	18.9
10°	340.4	339.5	339.7	341.6	345.2	345.5	345.7	32.6	51.5
15°	335.2	334.1	331.5	331.4	333.4	336.4	336.2	47.3	98.9
20°	323.4	322.7	318.7	319.6	318.0	320.3	324.7	60.1	159.0
25°	303.6	304.4	302.2	302.2	302.6	302.3	307.6	70.2	229.2
30°	283.2	283.0	279.5	280.9	281.3	280.3	282.2	77.1	306.3
35°	244.1	243.6	241.2	242.6	243.2	242.2	242.9	76.3	382.6
40°	179.9	179.6	180.9	182.1	183.5	183.3	184.4	64.1	446.7
45°	110.1	109.9	111.2	112.6	113.8	115.2	117.5	43.7	490.4
50°	51.7	59.9	67.3	61.6	55.5	66.0	73.6	26.1	516.5
55°	21.0	28.2	26.7	30.5	23.0	31.8	29.6	12.4	528.9
60°	14.1	14.7	15.5	14.4	14.4	15.4	16.1	7.1	536.0
65°	11.6	11.5	12.0	11.7	12.2	12.2	12.1	5.9	541.9
70°	8.4	8.6	8.9	8.9	9.1	9.2	9.2	4.6	546.5
75°	5.8	6.1	6.7	6.4	6.5	6.9	6.6	3.4	549.9
80°	3.5	3.8	4.1	4.5	4.2	4.7	4.7	2.3	552.2
85°	1.8	1.8	1.8	2.1	2.2	2.5	2.7	1.2	553.3
90°	5.2	5.0	5.3	5.2	3.1	1.1	0.4	2.0	555.4
95°	23.9	24.4	26.2	24.8	15.9	8.2	4.2	10.3	565.7
100°	42.8	43.9	44.3	38.8	26.0	14.7	9.7	17.5	583.2
105°	61.3	62.6	61.4	52.4	35.9	22.2	16.3	24.1	607.3
110°	82.4	82.7	77.5	64.5	46.0	30.0	23.3	30.4	637.7
115°	100.7	99.8	92.0	75.7	55.8	37.9	31.1	35.4	673.0
120°	115.9	114.0	103.9	84.8	64.9	45.6	38.7	38.8	711.8
125°	125.7	122.3	111.1	93.1	72.6	52.9	46.8	40.3	752.1
130°	129.2	126.3	114.5	98.0	78.5	60.4	54.8	39.9	792.0
135°	129.0	126.3	115.8	101.3	83.2	67.4	62.9	38.1	830.1
140°	126.9	124.9	116.2	103.6	87.1	74.0	71.4	35.5	865.6
145°	124.8	123.4	116.1	105.0	90.7	80.2	78.2	32.3	897.9
150°	121.9	121.3	114.8	104.9	93.7	86.1	84.5	28.5	926.4
155°	118.5	118.2	111.9	104.4	96.0	91.3	90.1	24.2	950.6
160°	113.8	113.5	108.5	103.6	98.0	95.4	95.1	19.5	970.1
165°	108.8	108.2	105.6	102.3	100.0	98.6	98.8	14.6	984.7
170°	105.0	104.5	103.8	102.4	101.4	101.2	101.3	9.8	994.5
175°	102.8	102.7	102.1	101.9	102.0	102.0	102.0	4.9	999.4
180°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	0.6	1000.0

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UGR-Table		Standard room							siteco	
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
	3H	15.3	16.1	16.2	17.0	18.1	15.6	16.3	16.5	17.2
	4H	15.3	16.0	16.2	16.9	18.1	15.6	16.3	16.5	17.2
	6H	15.2	15.8	16.1	16.8	18.0	15.5	16.2	16.5	17.1
	8H	15.1	15.7	16.1	16.7	17.9	15.4	16.0	16.4	17.0
	12H	15.0	15.6	16.0	16.5	17.8	15.5	16.0	16.4	16.9
4H	2H	15.2	15.9	16.1	16.8	17.9	15.3	16.0	16.2	16.9
	3H	15.2	15.7	16.1	16.7	17.9	15.4	15.9	16.3	16.9
	4H	15.2	15.7	16.1	16.6	17.9	15.4	15.9	16.4	16.9
	6H	15.1	15.6	16.1	16.6	17.8	15.5	15.9	16.4	16.9
	8H	15.1	15.5	16.1	16.5	17.8	15.5	15.9	16.5	16.9
	12H	15.0	15.4	16.1	16.4	17.7	15.5	15.8	16.5	16.8
8H	4H	15.0	15.4	16.0	16.4	17.7	15.2	15.6	16.2	16.6
	6H	15.1	15.5	16.1	16.4	17.7	15.4	15.7	16.4	16.7
	8H	15.1	15.4	16.1	16.4	17.7	15.5	15.8	16.5	16.8
	12H	15.1	15.3	16.1	16.3	17.7	15.5	15.8	16.6	16.8
12H	4H	15.0	15.3	16.0	16.3	17.6	15.1	15.5	16.2	16.5
	6H	15.1	15.3	16.1	16.3	17.6	15.3	15.6	16.3	16.6
	8H	15.1	15.3	16.1	16.3	17.6	15.4	15.7	16.4	16.7

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 2700 B = 50	
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°
			Luminance in cd/m²				
45° 50° 55° 60°	γ	15340.4	15307.2	15499.2	15681.9	15851.6	16054.1
		7922.2	9178.0	10321.3	9446.0	8512.8	10110.3
		3602.0	4852.1	4583.3	5235.8	3954.5	5460.5
		2787.7	2892.9	3058.0	2834.6	2845.0	3025.7
65° 70° 75° 80°	γ	2708.3	2687.1	2795.0	2726.5	2842.1	2837.9
		2423.1	2468.3	2568.2	2568.2	2608.6	2638.5
		2224.9	2309.4	2545.0	2430.4	2486.4	2613.5
		2009.5	2128.7	2347.7	2555.3	2370.4	2644.4
85°	γ	1984.9	1997.4	2073.1	2396.4	2519.6	2873.4

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Luminance values in cd/m²

γ 65°

γ 70°

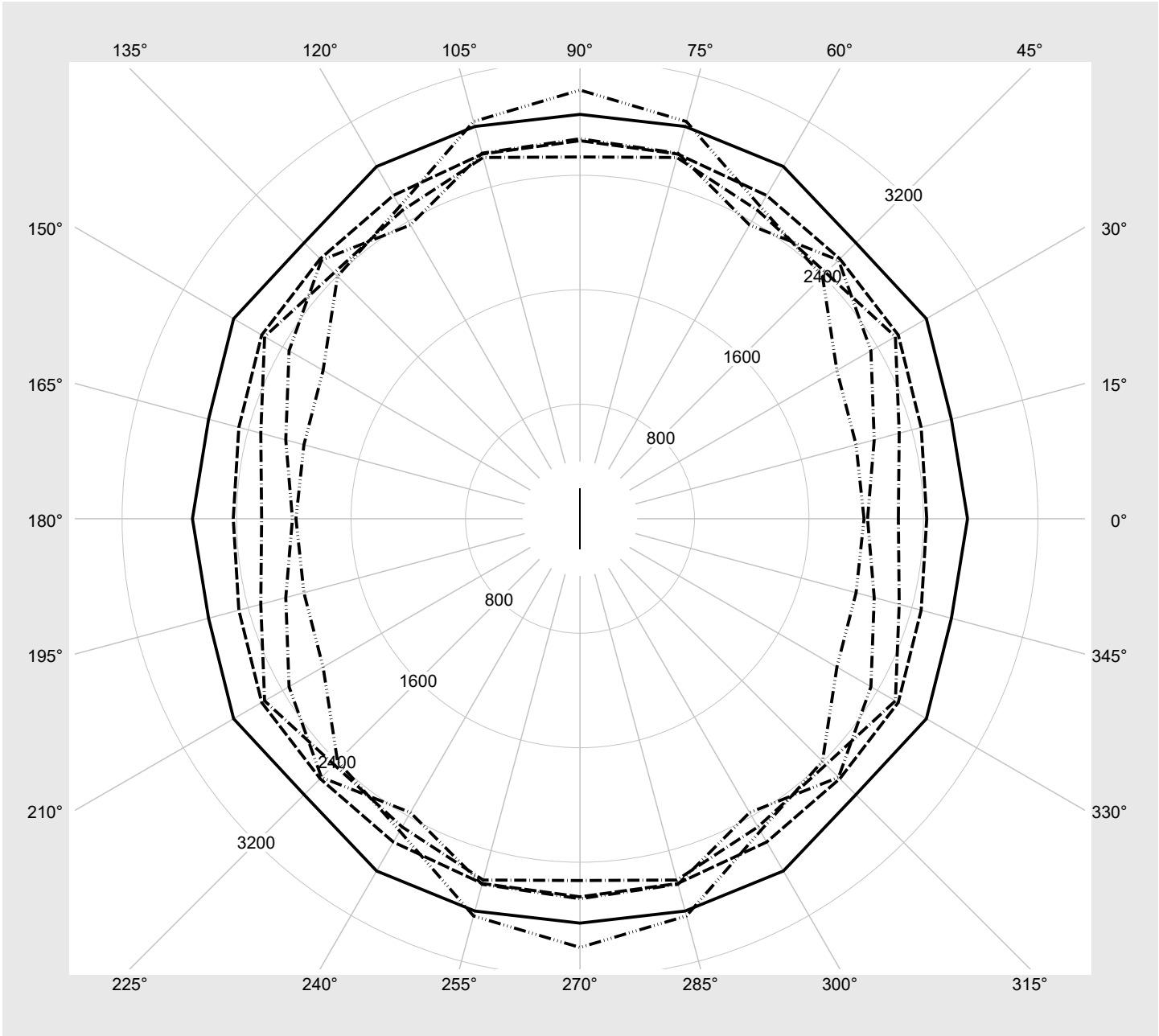
γ 75°

γ 80°

γ 85°

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Family Silica® 21	Order number: 51MX33DN3BBB EAN: 4069025109392	LP number 59331_124
Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	13300	89.3
95	241	252	12655	84.8
90	227	250	11956	79.9
85	214	248	11303	75.4
80	201	245	10644	70.8
75	188	243	9984	66.2
70	175	240	9318	61.7
65	162	238	8644	57.1
60	149	234	7970	52.5
55	136	231	7292	48.1
50	124	228	6661	44.1
45	111	224	5975	39.7
40	99	219	5338	35.6
35	86	214	4645	31.1
30	74	209	4002	27.0
25	61	202	3302	22.6
20	49	194	2649	18.5
15	37	183	1997	14.3
10	25	169	1342	10.2
5	13	145	685	5.9
2	6	117	300	3.1