

Photometric test report

Family
Silica® 21



Order number: **51MX30DC39BB**
EAN: **4058352892664**

LP number
59413_63

serial
documentation
02.08.2023

Version Suspended luminaire, with homogeneous illumination, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤25

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 10520 lm
Power consumption = 68.3 W
Luminous efficacy = 154 lm/W

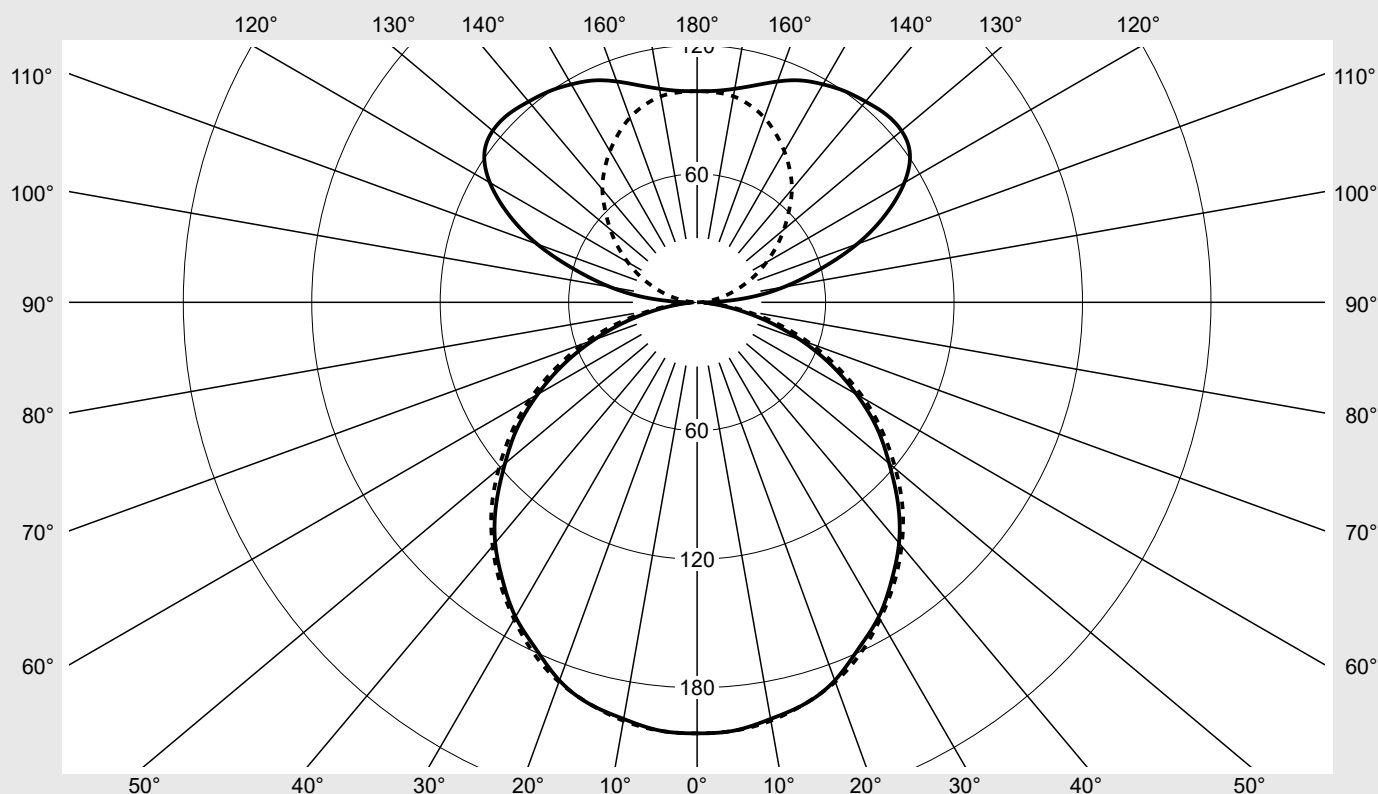
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 201 cd/klm



Classifications

DIN 5040 C 4 2
CIE N1=47 N2=79 N3=96
N4=57 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 57.0%
 ϕ_o 43.0%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
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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°	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		
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 = 3000 B = 50	
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/m²						
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°

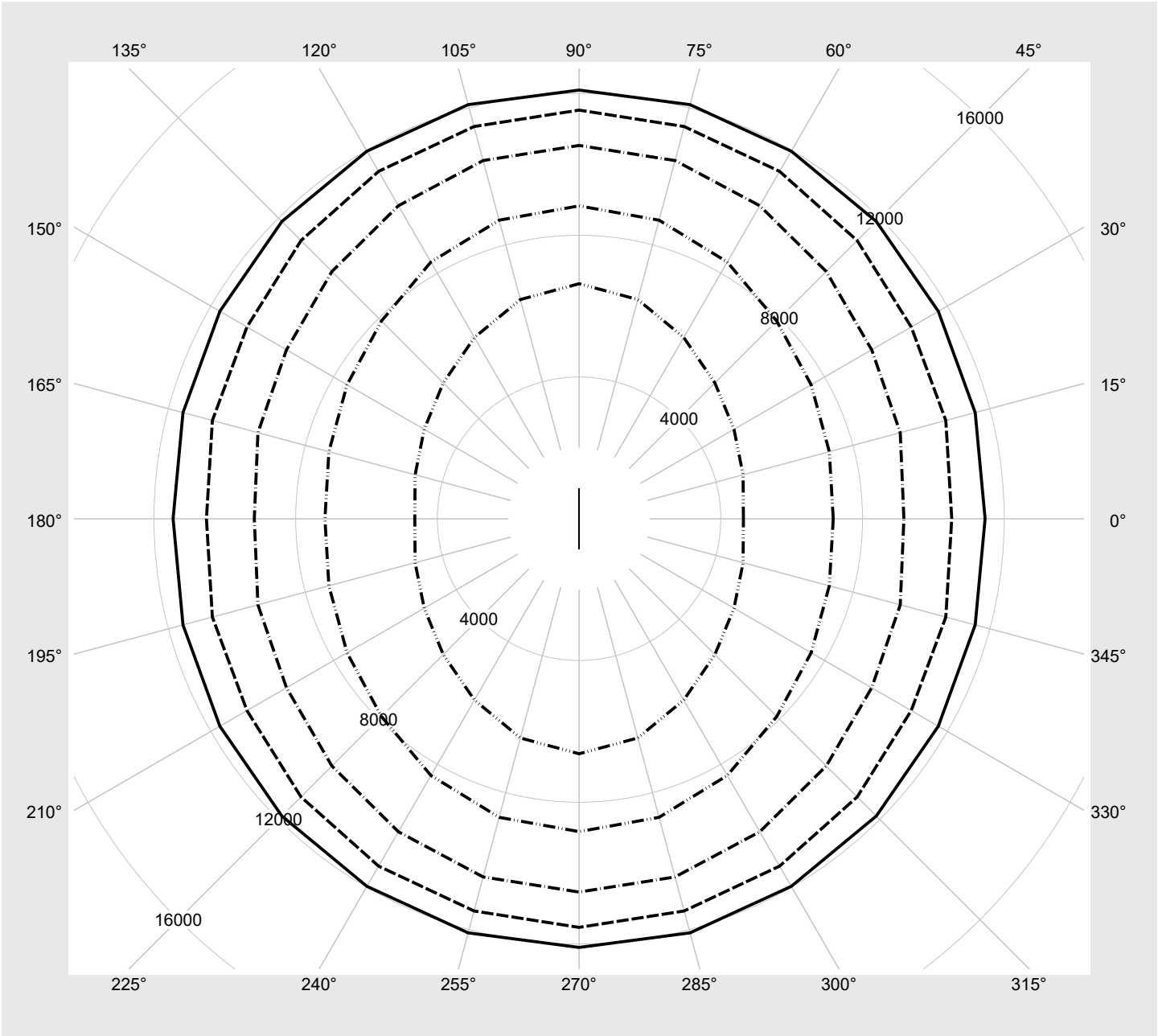
γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	10520	68.3
95	241	252	9994	64.6
90	228	250	9471	61.4
85	215	248	8945	58.2
80	202	246	8417	55.0
75	189	243	7887	51.5
70	176	241	7355	48.4
65	163	238	6821	45.0
60	151	235	6326	42.0
55	138	232	5788	38.8
50	125	228	5248	35.4
45	113	224	4748	32.5
40	100	220	4206	28.8
35	87	215	3661	25.6
30	75	209	3152	22.4
25	63	203	2646	19.3
20	50	194	2096	16.0
15	38	184	1587	12.8
10	25	169	1034	9.3
5	13	145	521	5.9
3	8	127	307	4.0