

Photometric test report

Family
Silica® 21

Order number: **51MX20DC45BB**
EAN: **4058352898802**

LP number
60289_18

serial
documentation
23.06.2026

siteco



Version surface-mounted luminaire, with homogeneous illumination, cover, opal, direct distribution, extremely wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

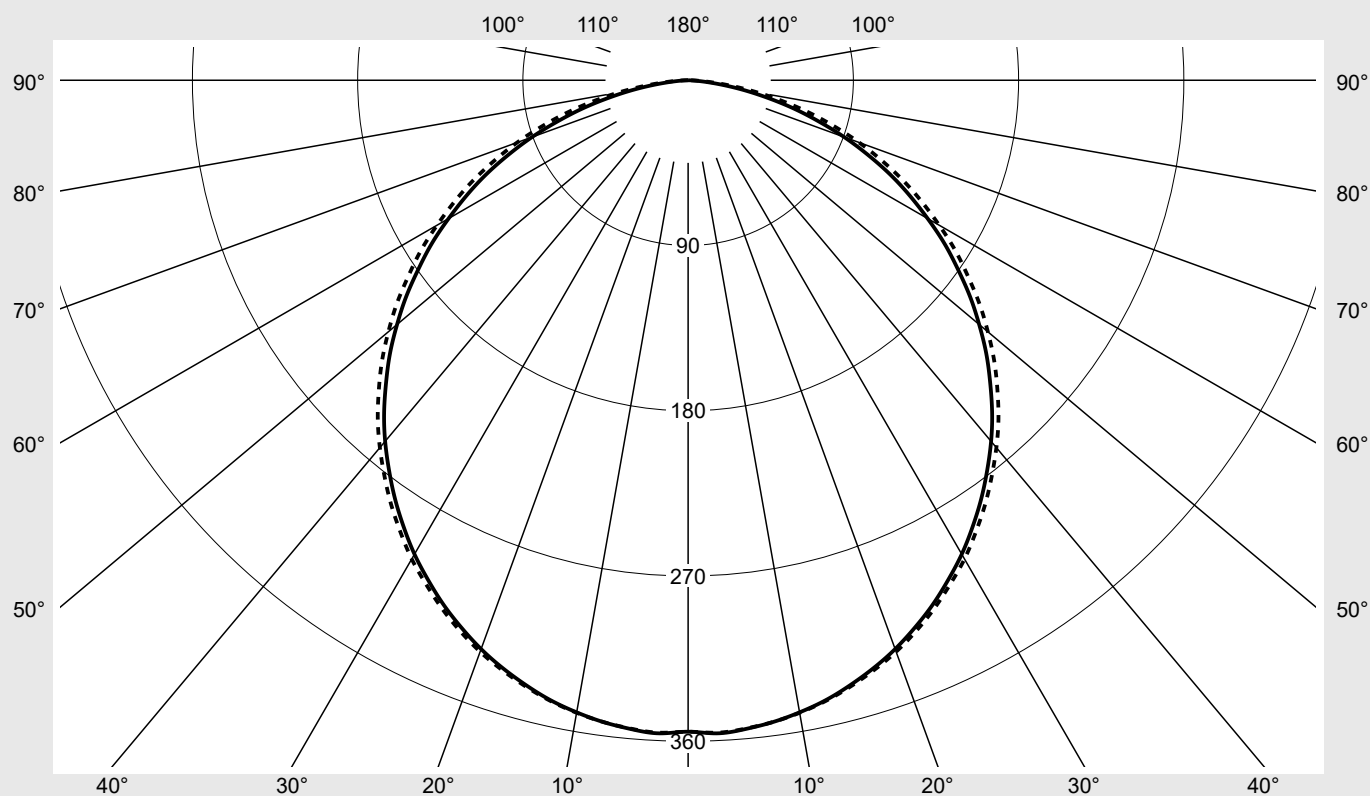
Rated values Net luminous flux = 6000 lm
Power consumption = 40.1 W
Luminous efficacy = 149.6 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 356 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=48 N2=79 N3=96
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

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	
0,0°	354.8	354.8	354.8	354.8	354.8	354.8	354.8	0.5	0.5
2,5°	356.1	354.8	352.5	354.0	355.5	355.5	355.7	4.2	4.8
5,0°	354.8	353.6	351.3	352.8	354.4	354.3	354.5	8.4	13.2
7,5°	352.6	351.6	349.3	350.8	352.4	352.4	352.6	12.6	25.8
10,0°	349.6	348.7	346.4	347.9	349.6	349.5	349.8	16.6	42.4
12,5°	345.9	345.1	342.8	344.3	346.0	346.1	346.3	20.5	62.9
15,0°	341.1	340.5	338.2	339.7	341.5	341.5	341.8	24.2	87.0
17,5°	335.7	335.3	333.0	334.5	336.3	336.5	336.8	27.6	114.7
20,0°	329.7	329.5	327.3	328.8	330.6	330.8	331.2	30.9	145.6
22,5°	322.7	322.7	320.5	321.8	323.8	324.1	324.6	33.9	179.4
25,0°	315.2	315.4	313.2	314.5	316.5	316.9	317.4	36.5	216.0
27,5°	306.8	307.2	305.0	306.3	308.3	308.8	309.3	38.9	254.9
30,0°	298.1	298.7	296.7	297.9	300.0	300.4	301.1	41.0	295.8
32,5°	288.4	289.2	287.3	288.3	290.3	291.0	291.7	42.6	338.5
35,0°	278.3	279.3	277.6	278.6	280.5	281.2	282.0	44.0	382.4
37,5°	267.6	268.7	267.4	268.1	269.9	270.9	271.7	44.9	427.3
40,0°	256.7	257.8	256.8	257.2	259.2	260.2	261.2	45.5	472.8
42,5°	245.1	246.2	245.5	245.9	247.7	248.9	250.2	45.7	518.6
45,0°	232.6	233.7	233.4	233.7	235.5	236.5	238.2	45.5	564.1
47,5°	220.2	221.3	221.5	221.8	223.4	224.3	226.1	45.0	609.1
50,0°	206.9	207.8	208.6	208.9	210.4	211.2	213.1	44.0	653.1
52,5°	193.6	194.4	195.5	195.9	197.4	198.1	200.0	42.7	695.8
55,0°	179.3	180.3	181.6	182.1	183.6	184.1	186.0	41.0	736.7
57,5°	165.5	166.5	167.9	168.6	170.2	170.7	172.6	39.0	775.8
60,0°	150.7	151.9	153.3	154.2	155.7	156.4	157.9	36.6	812.4
62,5°	136.1	137.6	139.1	140.1	141.6	142.5	143.6	34.1	846.5
65,0°	121.4	123.0	124.5	125.7	127.6	128.3	129.2	31.2	877.7
67,5°	105.8	107.6	108.8	110.4	112.5	113.4	114.1	28.0	905.7
70,0°	90.4	92.3	93.2	95.3	97.3	98.6	99.1	24.5	930.2
72,5°	74.6	76.3	77.1	79.6	81.4	83.0	83.4	20.8	951.0
75,0°	59.7	61.0	61.9	64.2	66.4	67.9	68.3	17.0	968.0
77,5°	44.5	45.5	46.7	48.5	50.7	52.4	53.0	13.0	981.0
80,0°	30.9	31.6	32.8	34.2	36.1	37.8	38.5	9.3	990.3
82,5°	18.3	18.8	19.8	20.9	22.6	24.0	24.6	5.8	996.1
85,0°	8.6	8.8	9.5	10.4	11.4	12.6	13.2	2.9	999.0
87,5°	2.4	2.6	2.9	3.4	4.1	4.7	5.1	1.0	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	21.2	22.8	21.5	23.2	23.5	21.3	23.0	21.7	23.3	23.6
	3H	22.7	24.2	23.1	24.6	24.9	23.0	24.5	23.4	24.8	25.2
	4H	23.3	24.7	23.7	25.0	25.4	23.6	25.1	24.0	25.4	25.8
	6H	23.6	24.9	24.0	25.3	25.7	24.1	25.4	24.5	25.8	26.2
	8H	23.7	25.0	24.1	25.3	25.7	24.2	25.5	24.7	25.9	26.3
	12H	23.7	24.9	24.2	25.3	25.7	24.3	25.5	24.7	25.9	26.3
4H	2H	21.9	23.4	22.3	23.7	24.1	22.1	23.5	22.5	23.9	24.2
	3H	23.7	24.9	24.1	25.3	25.7	23.9	25.1	24.3	25.5	25.9
	4H	24.3	25.4	24.8	25.8	26.3	24.7	25.8	25.1	26.2	26.6
	6H	24.8	25.7	25.2	26.1	26.6	25.2	26.2	25.7	26.6	27.1
	8H	24.9	25.7	25.3	26.2	26.7	25.4	26.3	25.9	26.7	27.2
	12H	24.9	25.7	25.4	26.2	26.7	25.5	26.3	26.0	26.7	27.2
8H	4H	24.7	25.5	25.1	26.0	26.4	25.0	25.8	25.4	26.3	26.7
	6H	25.2	25.9	25.7	26.4	26.9	25.6	26.3	26.1	26.8	27.3
	8H	25.3	26.0	25.8	26.4	27.0	25.8	26.5	26.3	26.9	27.5
	12H	25.4	25.9	25.9	26.4	27.0	26.0	26.5	26.5	27.0	27.5
12H	4H	24.7	25.5	25.2	25.9	26.4	25.0	25.8	25.5	26.2	26.7
	6H	25.3	25.9	25.8	26.4	26.9	25.7	26.3	26.2	26.8	27.3
	8H	25.4	26.0	25.9	26.4	27.0	25.9	26.4	26.4	26.9	27.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:			L = 3000 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°	90° 270°
			Luminance in cd/m²					
45,0°		13160.1	13222.6	13203.5	13219.7	13323.3	13379.9	13476.2
50,0°		12877.6	12934.2	12979.5	13000.5	13092.7	13144.4	13262.5
55,0°		12506.8	12573.9	12661.7	12698.0	12802.2	12841.2	12974.4
60,0°		12052.0	12151.8	12263.0	12334.7	12457.4	12509.4	12634.1
65,0°		11491.6	11642.8	11786.7	11895.0	12077.0	12141.0	12231.9
70,0°		10576.8	10798.7	10901.9	11143.6	11385.2	11526.6	11585.8
75,0°		9225.4	9420.3	9562.8	9920.3	10261.7	10492.7	10555.0
80,0°		7111.6	7282.3	7551.8	7875.0	8326.7	8713.0	8865.5
85,0°		3924.0	4055.3	4347.2	4770.8	5242.1	5790.6	6058.6

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Luminance values in cd/m²

γ 65°

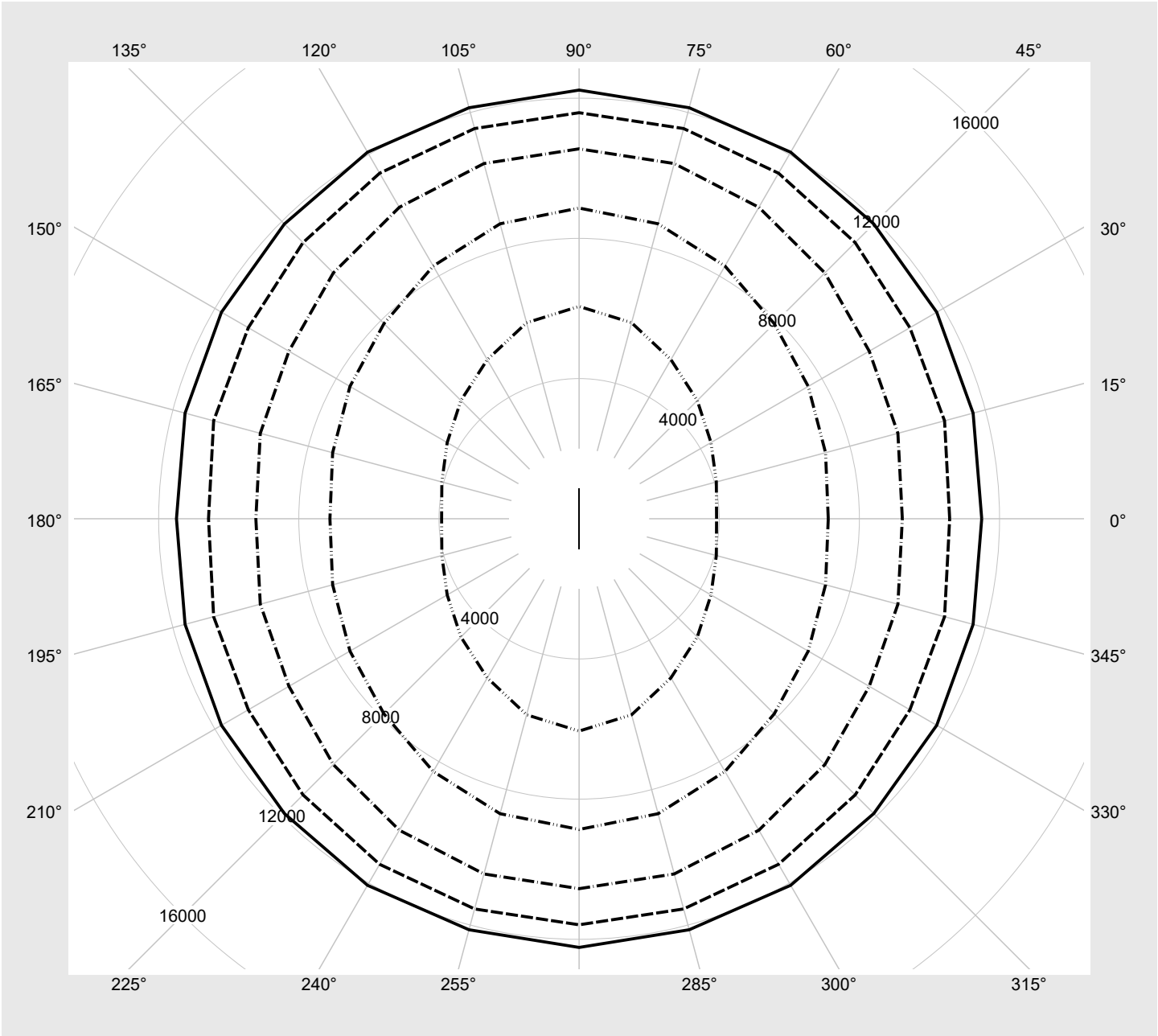
γ 70°

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	6000	40.1
95	241	252	5700	38.3
90	228	250	5400	36.3
85	215	248	5099	34.4
80	202	246	4797	32.3
75	189	243	4494	30.4
70	176	241	4190	28.5
65	164	238	3908	26.7
60	151	235	3603	24.9
55	138	232	3296	23.0
50	126	228	3012	21.3
45	113	224	2703	19.4
40	100	220	2393	17.6
35	88	215	2107	15.8
30	75	209	1793	13.9
25	63	203	1504	12.2
20	50	194	1191	10.3
15	38	184	901	8.6
10	26	171	610	6.8
5	13	145	295	4.9
3	9	132	198	4.2