

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DCEMSA
EAN: 4069025808578

LP number
60082_13

serial
documentation
20.05.2026

siteco



Version Suspended luminaire, housing, silver,
microprismatic optics, direct-/ indirect
distribution, wide distribution, UGR≤19

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG-DALI

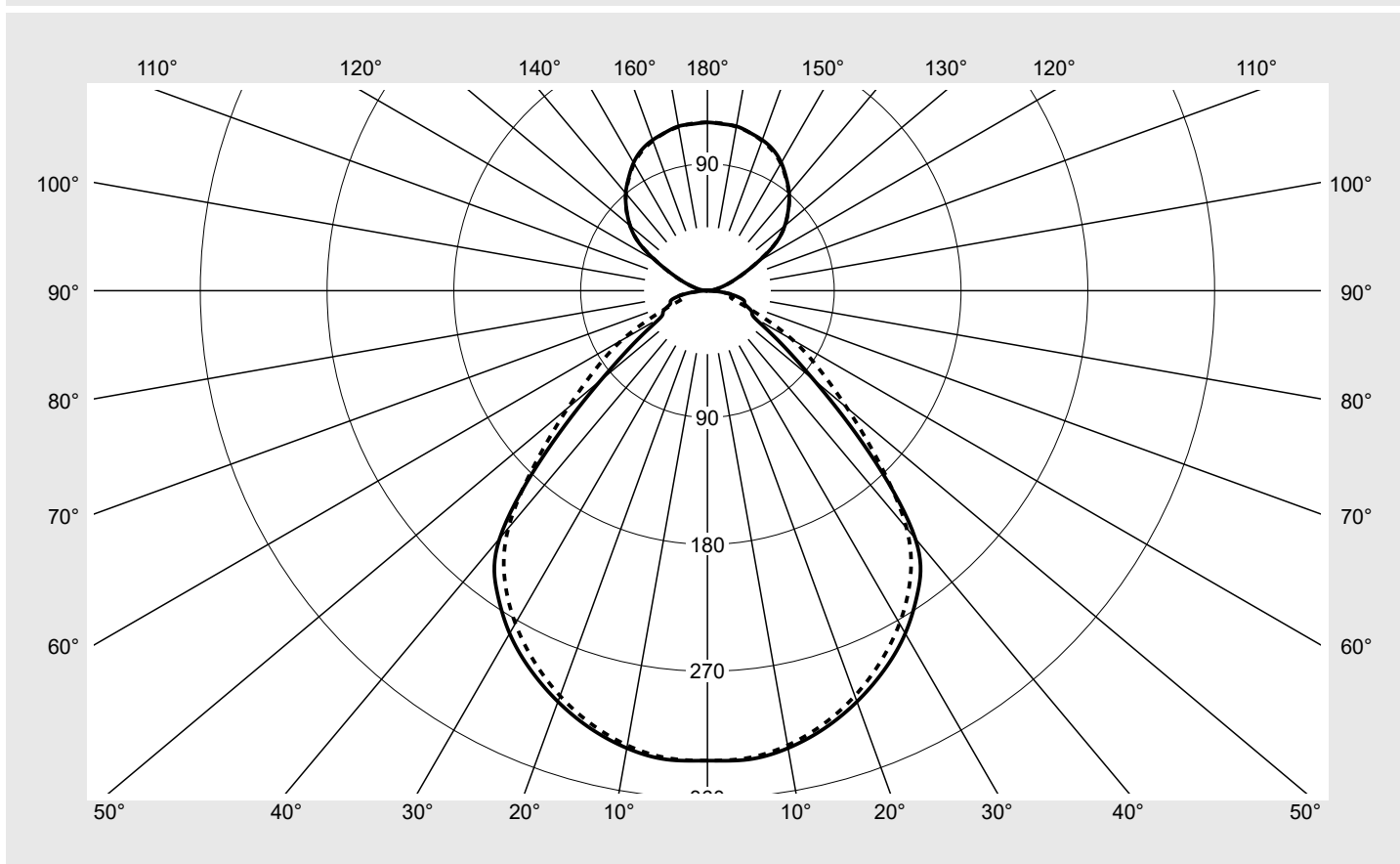
Rated values Net luminous flux = 14670 lm
Power consumption = 90.2 W
Luminous efficacy = 162.6 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 334 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=69 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 68.6%
 ϕ_o 31.4%

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°	333.5	333.5	333.5	333.5	333.5	333.5	333.5	2.0	2.0
5°	333.9	332.1	330.2	331.4	333.0	332.8	332.7	15.9	17.9
10°	329.6	327.7	325.6	326.5	327.9	327.6	327.5	31.2	49.0
15°	321.4	319.7	317.3	317.9	318.8	318.5	318.3	45.2	94.2
20°	310.3	308.5	305.8	306.0	306.6	306.1	305.9	57.5	151.7
25°	296.9	294.8	291.5	291.4	292.0	291.2	290.6	67.7	219.5
30°	280.8	278.3	274.5	274.3	275.2	273.8	272.7	75.5	295.0
35°	260.5	258.1	253.4	253.7	254.3	252.8	250.8	80.1	375.1
40°	229.5	229.5	225.3	225.1	221.4	222.4	219.8	79.2	454.2
45°	162.3	172.7	175.2	171.8	156.8	171.5	172.3	65.6	519.8
50°	98.6	113.1	132.1	113.0	97.9	111.3	129.2	47.7	567.5
55°	60.8	69.4	98.4	69.1	60.2	67.6	96.7	33.2	600.7
60°	38.7	46.9	69.1	47.4	38.6	46.3	69.9	23.9	624.6
65°	34.6	40.1	42.7	41.1	35.4	41.1	40.4	19.7	644.3
70°	28.4	34.6	21.9	35.2	28.5	35.3	21.6	15.5	659.8
75°	26.8	24.1	19.1	24.6	27.2	24.5	17.6	12.5	672.3
80°	19.2	14.6	19.0	14.1	19.5	14.9	20.3	9.2	681.5
85°	9.0	8.4	7.1	8.4	8.9	8.6	7.1	4.5	686.0
90°	0.7	0.8	0.5	0.7	0.5	0.6	0.3	0.3	686.3
95°	2.7	2.6	2.6	2.6	2.7	2.6	2.6	1.4	687.8
100°	6.1	6.0	6.0	6.1	6.1	6.1	6.1	3.3	691.1
105°	10.8	10.7	10.8	10.9	11.0	10.9	11.0	5.8	696.8
110°	17.7	17.6	17.9	18.0	18.1	18.0	18.1	9.2	706.0
115°	27.3	27.3	27.5	27.6	27.8	27.9	27.8	13.7	719.8
120°	42.2	42.0	41.8	41.9	41.8	41.8	41.7	19.9	739.6
125°	59.6	59.4	59.4	59.3	59.7	59.7	59.3	26.7	766.3
130°	71.6	71.5	71.6	71.9	72.3	72.0	71.7	30.2	796.5
135°	81.2	81.2	81.6	82.0	82.0	81.6	81.4	31.6	828.1
140°	90.2	90.0	90.1	90.4	90.3	90.0	89.9	31.8	859.9
145°	97.6	97.7	97.9	97.8	97.5	97.4	97.1	30.7	890.6
150°	104.8	104.8	104.8	104.6	104.3	104.3	104.1	28.7	919.3
155°	110.3	110.0	109.8	109.5	109.4	109.4	109.4	25.4	944.7
160°	113.8	113.5	113.3	113.0	113.3	112.9	113.1	21.2	965.9
165°	116.1	116.1	116.1	116.2	116.1	115.8	116.1	16.5	982.4
170°	118.5	118.5	118.4	118.1	117.7	117.9	118.1	11.2	993.6
175°	118.7	118.8	118.8	119.0	119.0	119.1	119.1	5.7	999.3
180°	119.4	119.4	119.4	119.4	119.4	119.4	119.4	0.7	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	14.0	15.1	14.8	15.8	16.8	13.8	14.9	14.6	15.6	16.6
	3H	14.6	15.5	15.4	16.3	17.3	14.5	15.4	15.2	16.2	17.2
	4H	15.1	15.9	15.9	16.7	17.7	14.8	15.6	15.6	16.4	17.4
	6H	15.5	16.3	16.3	17.1	18.1	15.2	16.0	16.0	16.8	17.8
	8H	15.6	16.4	16.5	17.2	18.2	15.4	16.1	16.2	16.9	18.0
	12H	15.8	16.5	16.6	17.3	18.3	15.5	16.2	16.3	17.0	18.0
4H	2H	14.1	15.0	14.9	15.8	16.8	14.0	14.9	14.8	15.7	16.6
	3H	14.9	15.6	15.7	16.5	17.5	14.9	15.6	15.7	16.5	17.5
	4H	15.4	16.1	16.3	16.9	18.0	15.4	16.1	16.2	16.9	17.9
	6H	16.0	16.6	16.9	17.4	18.5	16.0	16.5	16.8	17.4	18.4
	8H	16.2	16.7	17.1	17.6	18.6	16.2	16.7	17.0	17.5	18.6
	12H	16.4	16.9	17.3	17.8	18.8	16.4	16.8	17.2	17.7	18.8
8H	4H	15.6	16.1	16.4	17.0	18.0	15.6	16.1	16.4	16.9	18.0
	6H	16.3	16.7	17.2	17.6	18.7	16.3	16.7	17.2	17.6	18.7
	8H	16.7	17.0	17.6	17.9	19.0	16.7	17.1	17.6	17.9	19.1
	12H	17.0	17.3	17.9	18.2	19.3	17.0	17.3	17.9	18.2	19.3
12H	4H	15.6	16.1	16.5	17.0	18.0	15.6	16.1	16.5	16.9	18.0
	6H	16.4	16.8	17.3	17.7	18.8	16.4	16.8	17.3	17.7	18.8
	8H	16.8	17.1	17.7	18.0	19.1	16.8	17.1	17.7	18.0	19.2

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 886	
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°	5460.0	5811.2	5895.0	5781.7	5276.5	5770.4	5797.6
50°	3649.7	4187.1	4888.6	4184.6	3625.5	4120.6	4782.7
55°	2520.9	2880.0	4081.3	2867.4	2497.8	2805.2	4013.5
60°	1842.3	2232.1	3286.4	2256.6	1836.7	2202.8	3325.1
65°	1945.3	2258.3	2406.2	2313.8	1993.9	2314.8	2276.3
70°	1973.3	2405.7	1523.9	2450.6	1984.3	2455.3	1505.4
75°	2464.8	2217.4	1760.0	2265.7	2500.3	2248.8	1613.6
80°	2636.7	1996.5	2605.3	1938.8	2667.1	2034.8	2779.6
85°	2452.2	2293.0	1935.6	2300.6	2438.5	2349.0	1946.3

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Luminance values in cd/m²

γ 65°

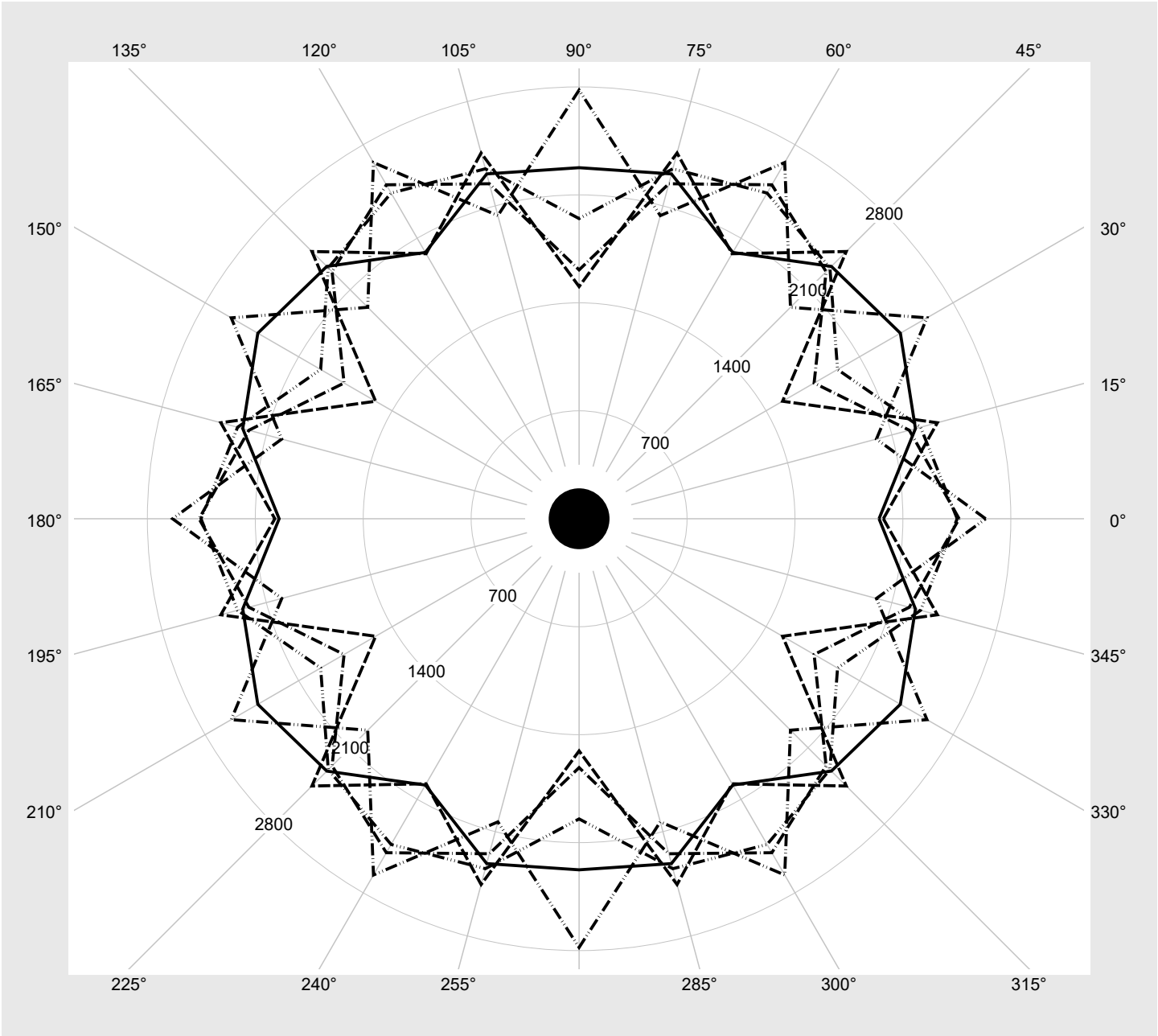
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14670	90.2
95	241	252	13944	85.5
90	228	250	13218	81.0
85	215	248	12487	76.3
80	202	246	11755	71.7
75	189	243	11017	67.0
70	176	241	10277	62.4
65	163	238	9533	57.9
60	150	235	8787	53.4
55	138	232	8096	49.2
50	125	228	7345	44.8
45	112	224	6589	40.4
40	100	220	5889	36.2
35	87	215	5128	31.9
30	75	209	4425	28.0
25	62	202	3658	23.7
20	50	194	2949	19.5
15	37	183	2177	14.8
10	25	169	1462	10.4
5	13	145	745	6.1
3	8	127	446	4.3