

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DC3MWA
EAN: 4069025808417

LP number
60080_10

serial
documentation
20.05.2026

siteco

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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

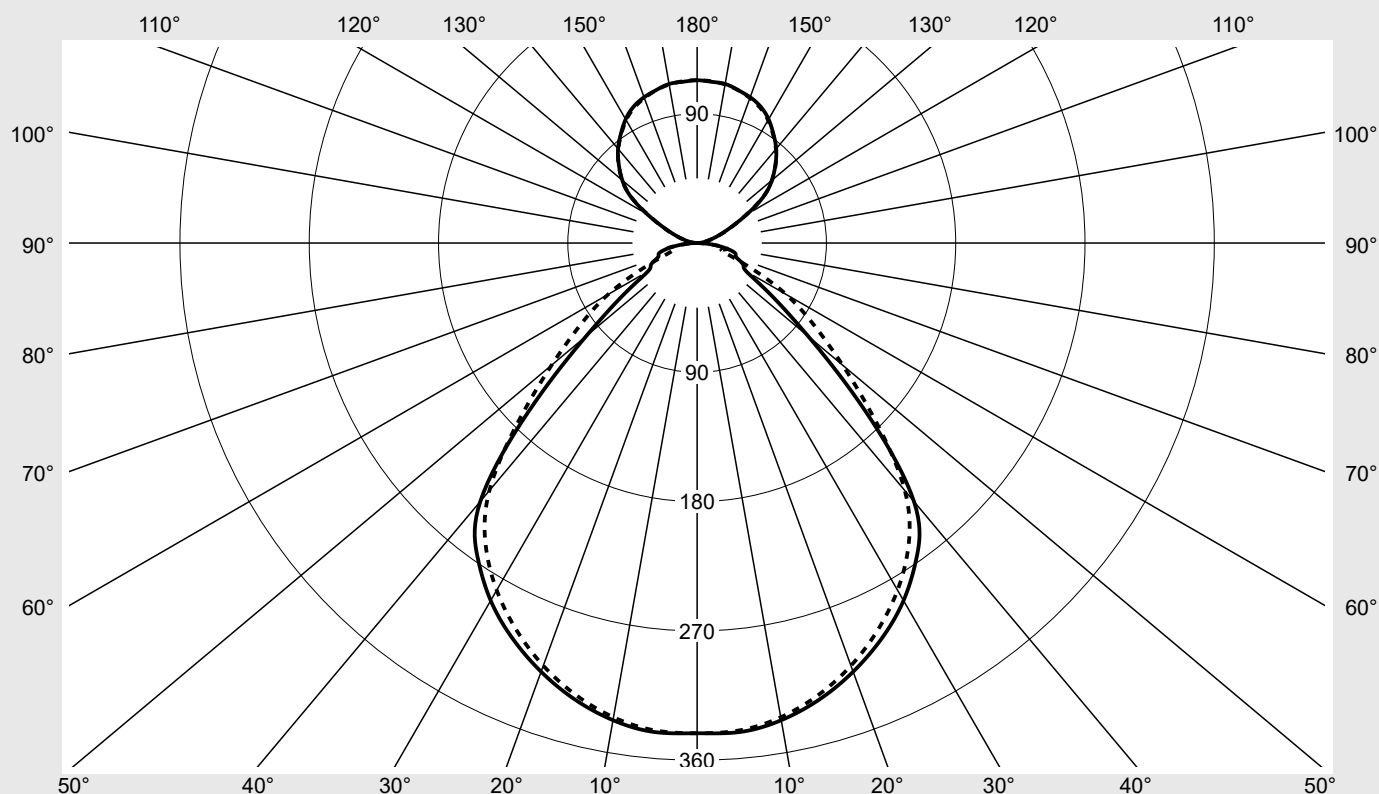
Rated values Net luminous flux = 15300 lm
Power consumption = 88.9 W
Luminous efficacy = 172.1 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 342 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=70 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 70.2%
 ϕ_o 29.8%

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°	341.2	341.2	341.2	341.2	341.2	341.2	341.2	2.0	2.0
5°	341.7	339.9	337.9	339.1	340.7	340.5	340.5	16.2	18.3
10°	337.3	335.4	333.2	334.1	335.5	335.2	335.2	31.9	50.2
15°	328.9	327.1	324.7	325.3	326.3	325.9	325.7	46.3	96.4
20°	317.5	315.7	313.0	313.1	313.8	313.2	313.1	58.9	155.3
25°	303.8	301.7	298.3	298.2	298.8	297.9	297.4	69.3	224.6
30°	287.4	284.8	280.9	280.7	281.6	280.1	279.0	77.3	301.9
35°	266.6	264.1	259.3	259.6	260.3	258.7	256.6	81.9	383.8
40°	234.8	234.9	230.6	230.3	226.5	227.6	225.0	81.0	464.8
45°	166.0	176.7	179.3	175.8	160.5	175.5	176.3	67.1	531.9
50°	100.9	115.7	135.1	115.7	100.2	113.9	132.2	48.8	580.7
55°	62.2	71.0	100.7	70.7	61.6	69.2	99.0	34.0	614.7
60°	39.6	48.0	70.7	48.5	39.5	47.4	71.5	24.5	639.2
65°	35.4	41.0	43.7	42.1	36.2	42.1	41.4	20.2	659.4
70°	29.0	35.4	22.4	36.0	29.2	36.1	22.1	15.9	675.2
75°	27.4	24.7	19.6	25.2	27.8	25.0	18.0	12.8	688.0
80°	19.7	14.9	19.5	14.5	19.9	15.2	20.8	9.4	697.4
85°	9.2	8.6	7.3	8.6	9.1	8.8	7.3	4.6	702.0
90°	0.6	0.8	0.5	0.7	0.5	0.6	0.3	0.3	702.3
95°	2.6	2.5	2.5	2.5	2.5	2.5	2.5	1.4	703.7
100°	5.8	5.7	5.7	5.8	5.8	5.8	5.8	3.1	706.8
105°	10.2	10.1	10.3	10.4	10.5	10.4	10.4	5.5	712.3
110°	16.8	16.7	17.0	17.1	17.2	17.1	17.1	8.8	721.0
115°	25.9	25.9	26.1	26.2	26.4	26.5	26.4	13.0	734.0
120°	40.0	39.9	39.7	39.7	39.7	39.6	39.6	18.9	752.9
125°	56.5	56.4	56.4	56.3	56.6	56.6	56.3	25.3	778.3
130°	68.0	67.8	68.0	68.3	68.6	68.3	68.0	28.6	806.9
135°	77.1	77.1	77.4	77.9	77.8	77.5	77.3	30.0	836.9
140°	85.6	85.5	85.5	85.8	85.7	85.5	85.3	30.1	867.1
145°	92.6	92.7	92.9	92.8	92.5	92.4	92.2	29.1	896.2
150°	99.5	99.5	99.5	99.3	99.0	99.0	98.8	27.2	923.4
155°	104.7	104.4	104.2	103.9	103.9	103.9	103.9	24.1	947.5
160°	108.0	107.7	107.5	107.3	107.5	107.2	107.3	20.1	967.6
165°	110.2	110.2	110.1	110.3	110.2	109.9	110.2	15.6	983.3
170°	112.4	112.4	112.4	112.1	111.7	111.9	112.1	10.7	993.9
175°	112.7	112.7	112.8	112.9	112.9	113.0	113.1	5.4	999.3
180°	113.3	113.3	113.3	113.3	113.3	113.3	113.3	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	14.4	15.4	15.1	16.2	17.1	14.2	15.2	14.9	16.0	16.9
	3H	15.0	15.9	15.7	16.7	17.6	14.8	15.7	15.6	16.5	17.5
	4H	15.4	16.3	16.2	17.1	18.0	15.1	16.0	15.9	16.8	17.7
	6H	15.9	16.7	16.7	17.5	18.4	15.6	16.4	16.3	17.1	18.1
	8H	16.0	16.7	16.8	17.5	18.5	15.7	16.5	16.5	17.3	18.3
	12H	16.1	16.8	17.0	17.7	18.7	15.8	16.5	16.7	17.4	18.4
4H	2H	14.5	15.4	15.3	16.1	17.1	14.3	15.2	15.1	16.0	17.0
	3H	15.3	16.0	16.1	16.8	17.8	15.3	16.0	16.1	16.8	17.8
	4H	15.8	16.5	16.6	17.3	18.3	15.8	16.4	16.6	17.2	18.3
	6H	16.4	16.9	17.2	17.8	18.8	16.3	16.9	17.2	17.7	18.8
	8H	16.5	17.1	17.4	17.9	19.0	16.5	17.0	17.4	17.9	19.0
	12H	16.8	17.2	17.7	18.1	19.2	16.7	17.2	17.6	18.0	19.1
8H	4H	15.9	16.4	16.8	17.3	18.4	15.9	16.4	16.8	17.3	18.3
	6H	16.7	17.1	17.5	18.0	19.0	16.6	17.1	17.5	17.9	19.0
	8H	17.0	17.4	17.9	18.3	19.4	17.0	17.4	17.9	18.3	19.4
	12H	17.4	17.7	18.2	18.6	19.6	17.3	17.7	18.2	18.5	19.6
12H	4H	16.0	16.5	16.9	17.3	18.4	16.0	16.4	16.8	17.3	18.4
	6H	16.8	17.2	17.7	18.0	19.1	16.8	17.1	17.7	18.0	19.1
	8H	17.2	17.5	18.0	18.4	19.5	17.2	17.5	18.1	18.4	19.5

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°	5827.3	6202.1	6291.6	6170.7	5631.5	6158.6	6187.6
50°	3895.2	4468.7	5217.5	4466.0	3869.4	4397.8	5104.5
55°	2690.5	3073.8	4355.9	3060.3	2665.8	2993.9	4283.5
60°	1966.3	2382.2	3507.4	2408.4	1960.3	2351.0	3548.8
65°	2076.2	2410.2	2568.0	2469.5	2128.0	2470.5	2429.4
70°	2106.1	2567.4	1626.4	2615.5	2117.8	2620.5	1606.6
75°	2630.5	2366.6	1878.4	2418.1	2668.5	2400.0	1722.1
80°	2814.0	2130.8	2780.6	2069.2	2846.5	2171.7	2966.5
85°	2617.0	2447.3	2066.0	2455.3	2602.5	2507.1	2077.1

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Luminance values in cd/m²

γ 65°

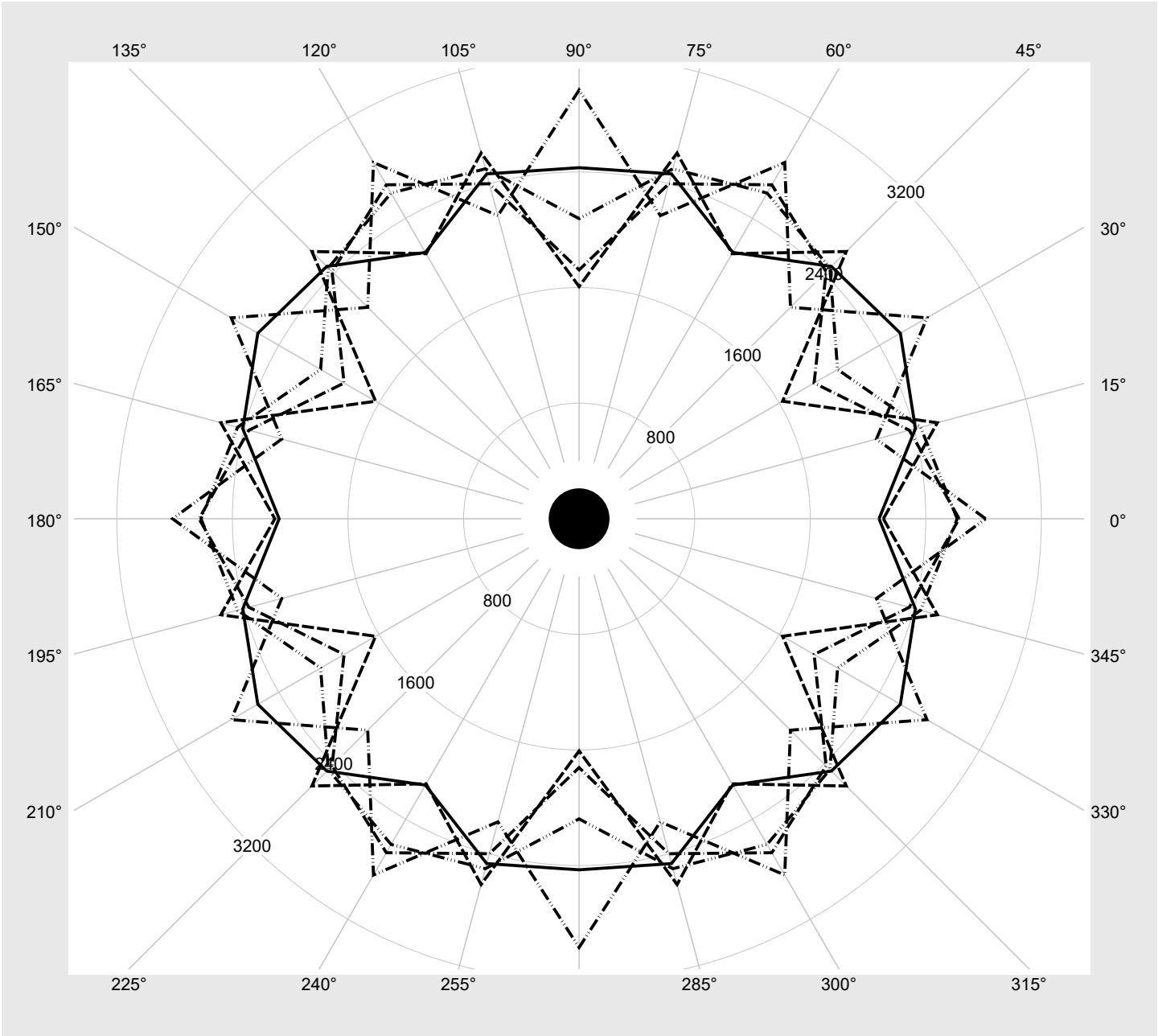
γ 70°

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	15300	88.9
95	241	252	14529	84.4
90	228	250	13759	79.9
85	215	248	12984	75.3
80	203	246	12269	71.2
75	190	243	11490	66.6
70	177	241	10709	62.1
65	164	238	9925	57.7
60	152	235	9198	53.6
55	139	232	8409	49.1
50	126	228	7620	44.8
45	114	225	6886	40.7
40	101	220	6091	36.3
35	89	216	5355	32.3
30	77	210	4618	28.5
25	64	204	3815	24.3
20	52	196	3073	20.1
15	39	185	2266	15.5
10	27	172	1520	11.2
5	15	150	772	6.8
2	8	127	334	4.3