

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DC3MBA
EAN: 4069025808387

LP number
60081_10

serial
documentation
20.05.2026

siteco



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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

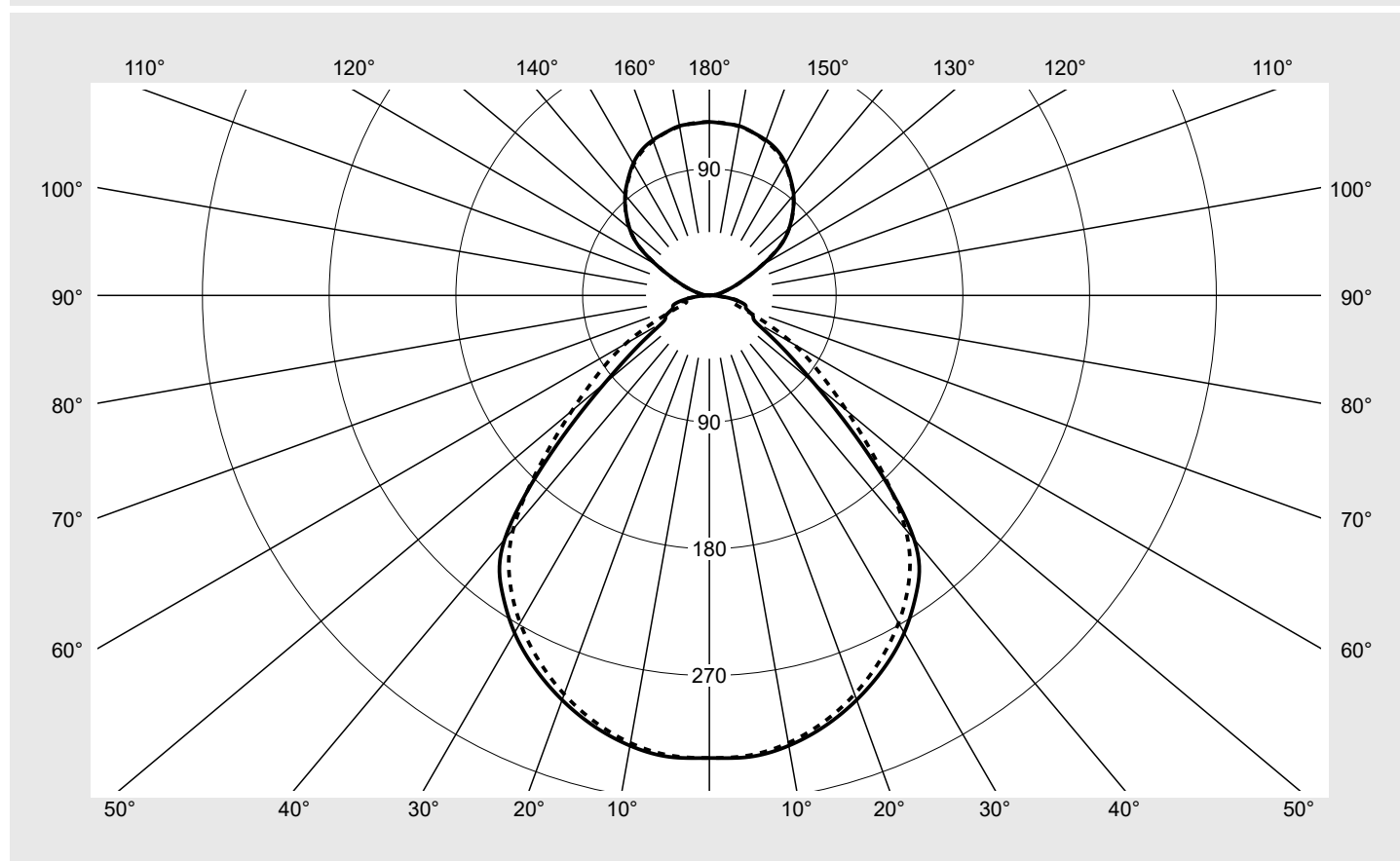
Rated values Net luminous flux = 14840 lm
Power consumption = 88.9 W
Luminous efficacy = 166.9 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 329 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=68 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 67.6%
 ϕ_o 32.4%

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°	328.6	328.6	328.6	328.6	328.6	328.6	328.6	2.0	2.0
5°	329.0	327.3	325.4	326.6	328.1	327.9	327.9	15.6	17.6
10°	324.8	323.0	320.8	321.7	323.1	322.8	322.8	30.7	48.3
15°	316.7	315.0	312.7	313.2	314.2	313.8	313.7	44.5	92.8
20°	305.8	304.0	301.4	301.5	302.1	301.6	301.5	56.7	149.5
25°	292.6	290.5	287.3	287.1	287.8	286.9	286.3	66.8	216.3
30°	276.7	274.3	270.5	270.3	271.2	269.8	268.7	74.4	290.7
35°	256.7	254.3	249.7	250.0	250.6	249.2	247.1	78.9	369.6
40°	226.1	226.2	222.1	221.8	218.1	219.2	216.6	78.0	447.6
45°	159.9	170.2	172.6	169.3	154.5	169.0	169.8	64.6	512.2
50°	97.2	111.5	130.1	111.4	96.5	109.7	127.3	47.0	559.2
55°	59.9	68.4	96.9	68.1	59.3	66.6	95.3	32.7	591.9
60°	38.2	46.2	68.1	46.7	38.0	45.6	68.9	23.6	615.5
65°	34.0	39.5	42.1	40.5	34.9	40.5	39.8	19.4	634.9
70°	28.0	34.1	21.6	34.7	28.1	34.8	21.3	15.3	650.2
75°	26.4	23.8	18.9	24.3	26.8	24.1	17.3	12.3	662.5
80°	19.0	14.4	18.7	13.9	19.2	14.6	20.0	9.0	671.6
85°	8.9	8.3	7.0	8.3	8.8	8.5	7.0	4.4	676.0
90°	0.7	0.9	0.5	0.8	0.6	0.6	0.4	0.3	676.4
95°	2.8	2.7	2.7	2.7	2.7	2.7	2.7	1.5	677.8
100°	6.3	6.2	6.2	6.3	6.3	6.3	6.3	3.4	681.2
105°	11.1	11.0	11.2	11.3	11.4	11.3	11.4	5.9	687.2
110°	18.3	18.1	18.4	18.6	18.6	18.6	18.6	9.5	696.7
115°	28.2	28.2	28.4	28.5	28.7	28.8	28.7	14.2	710.8
120°	43.5	43.3	43.2	43.2	43.1	43.1	43.0	20.5	731.3
125°	61.5	61.3	61.3	61.2	61.6	61.6	61.2	27.6	758.9
130°	73.9	73.8	73.9	74.2	74.6	74.3	74.0	31.1	790.0
135°	83.8	83.8	84.1	84.6	84.6	84.2	84.0	32.6	822.7
140°	93.1	92.9	93.0	93.3	93.2	92.9	92.8	32.8	855.5
145°	100.7	100.8	101.0	100.9	100.6	100.5	100.2	31.7	887.1
150°	108.2	108.2	108.2	108.0	107.7	107.6	107.4	29.6	916.7
155°	113.8	113.5	113.3	113.0	112.9	112.9	112.9	26.2	942.9
160°	117.4	117.1	116.9	116.6	116.9	116.5	116.7	21.9	964.8
165°	119.8	119.8	119.8	119.9	119.8	119.5	119.8	17.0	981.8
170°	122.2	122.2	122.2	121.9	121.5	121.7	121.8	11.6	993.4
175°	122.5	122.5	122.6	122.7	122.8	122.9	122.9	5.9	999.3
180°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	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	13.9	15.0	14.7	15.8	16.7	13.7	14.8	14.5	15.6	16.5
	3H	14.5	15.4	15.3	16.2	17.2	14.4	15.3	15.2	16.1	17.1
	4H	15.0	15.8	15.8	16.6	17.6	14.7	15.5	15.5	16.3	17.3
	6H	15.4	16.2	16.2	17.0	18.0	15.1	15.9	15.9	16.7	17.7
	8H	15.5	16.3	16.4	17.1	18.1	15.3	16.0	16.1	16.8	17.9
	12H	15.7	16.4	16.5	17.2	18.3	15.4	16.1	16.2	16.9	18.0
4H	2H	14.1	14.9	14.9	15.7	16.7	13.9	14.8	14.7	15.6	16.6
	3H	14.8	15.5	15.7	16.4	17.4	14.8	15.5	15.6	16.4	17.4
	4H	15.4	16.0	16.2	16.8	17.9	15.3	16.0	16.2	16.8	17.9
	6H	15.9	16.5	16.8	17.4	18.4	15.9	16.4	16.7	17.3	18.4
	8H	16.1	16.6	17.0	17.5	18.6	16.1	16.6	17.0	17.5	18.6
	12H	16.3	16.8	17.2	17.7	18.8	16.3	16.7	17.2	17.6	18.7
8H	4H	15.5	16.0	16.4	16.9	18.0	15.5	16.0	16.4	16.9	17.9
	6H	16.2	16.6	17.1	17.5	18.6	16.2	16.6	17.1	17.5	18.6
	8H	16.6	16.9	17.5	17.8	19.0	16.6	17.0	17.5	17.9	19.0
	12H	16.9	17.2	17.8	18.1	19.2	16.9	17.2	17.8	18.1	19.2
12H	4H	15.5	16.0	16.4	16.9	18.0	15.5	16.0	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	19.1	16.7	17.0	17.6	18.0	19.1

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°	5442.8	5792.9	5876.4	5763.5	5259.9	5752.2	5779.3
50°	3638.1	4173.8	4873.2	4171.3	3614.0	4107.6	4767.6
55°	2513.0	2870.9	4068.4	2858.4	2489.9	2796.3	4000.9
60°	1836.5	2225.0	3276.0	2249.5	1830.9	2195.9	3314.6
65°	1939.2	2251.2	2398.6	2306.5	1987.6	2307.5	2269.1
70°	1967.1	2398.1	1519.1	2442.9	1978.1	2447.5	1500.6
75°	2457.0	2210.4	1754.4	2258.6	2492.4	2241.7	1608.5
80°	2628.3	1990.1	2597.1	1932.7	2658.6	2028.3	2770.8
85°	2444.4	2285.6	1929.6	2293.3	2430.9	2341.7	1940.1

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Luminance values in cd/m²

γ 65°

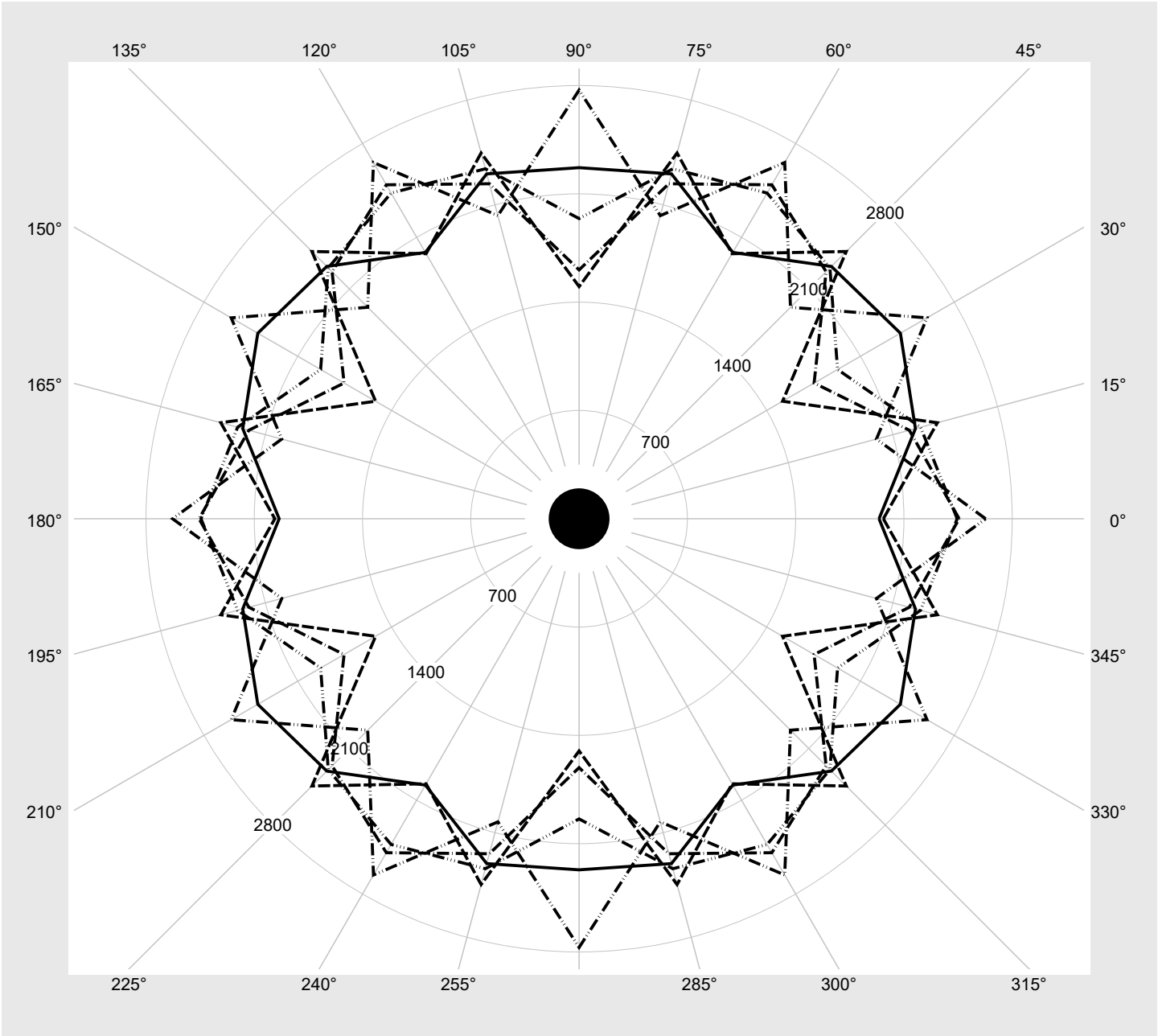
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14840	88.9
95	241	252	14093	84.4
90	228	250	13345	79.9
85	215	248	12594	75.3
80	203	246	11901	71.2
75	190	243	11144	66.6
70	177	241	10387	62.1
65	164	238	9626	57.7
60	152	235	8921	53.6
55	139	232	8157	49.1
50	126	228	7391	44.8
45	114	225	6679	40.7
40	101	220	5908	36.3
35	89	216	5194	32.3
30	77	210	4479	28.5
25	64	204	3700	24.3
20	52	196	2980	20.1
15	39	185	2198	15.5
10	27	172	1474	11.2
5	15	150	749	6.8
2	8	127	324	4.3