

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DCDMBA
EAN: 4069025808509

LP number
60081_12

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 ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 14360 lm

Power consumption = 90.2 W

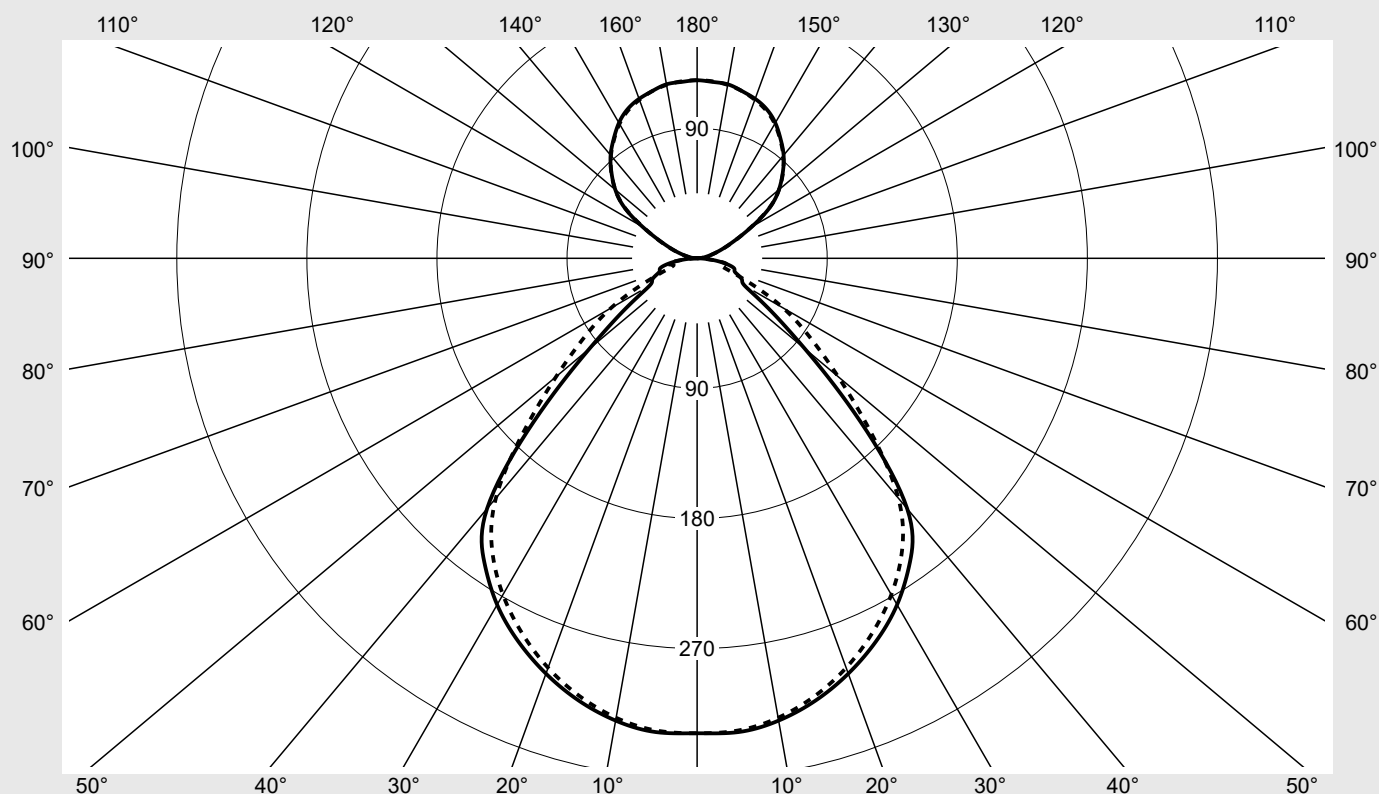
Luminous efficacy = 159.2 lm/W

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	13.8	14.9	14.6	15.6	16.6	13.6	14.7	14.4	15.4
	3H	14.4	15.3	15.2	16.1	17.1	14.3	15.2	15.1	16.0
	4H	14.9	15.7	15.7	16.5	17.5	14.6	15.4	15.4	16.2
	6H	15.3	16.1	16.1	16.9	17.9	15.0	15.8	15.8	16.6
	8H	15.4	16.1	16.3	17.0	18.0	15.2	15.9	16.0	16.7
	12H	15.6	16.3	16.4	17.1	18.2	15.3	16.0	16.1	16.8
4H	2H	13.9	14.8	14.7	15.6	16.6	13.8	14.7	14.6	15.5
	3H	14.7	15.4	15.5	16.3	17.3	14.7	15.4	15.5	16.3
	4H	15.2	15.9	16.1	16.7	17.8	15.2	15.8	16.1	16.7
	6H	15.8	16.4	16.7	17.2	18.3	15.8	16.3	16.6	17.2
	8H	16.0	16.5	16.9	17.4	18.5	16.0	16.5	16.8	17.3
	12H	16.2	16.7	17.1	17.6	18.7	16.2	16.6	17.1	17.5
8H	4H	15.4	15.9	16.3	16.8	17.8	15.4	15.9	16.2	16.7
	6H	16.1	16.5	17.0	17.4	18.5	16.1	16.5	17.0	17.4
	8H	16.5	16.8	17.4	17.7	18.8	16.5	16.8	17.4	17.7
	12H	16.8	17.1	17.7	18.0	19.1	16.8	17.1	17.7	18.0
12H	4H	15.4	15.9	16.3	16.8	17.9	15.4	15.9	16.3	16.7
	6H	16.2	16.6	17.1	17.5	18.6	16.2	16.6	17.1	17.5
	8H	16.6	16.9	17.5	17.8	18.9	16.6	16.9	17.5	17.8

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°	5266.7	5605.5	5686.3	5577.1	5089.7	5566.2	5592.4
50°	3520.5	4038.8	4715.6	4036.4	3497.1	3974.7	4613.4
55°	2431.7	2778.1	3936.8	2765.9	2409.4	2705.8	3871.5
60°	1777.1	2153.1	3170.0	2176.7	1771.7	2124.8	3207.4
65°	1876.5	2178.4	2321.0	2231.9	1923.3	2232.9	2195.7
70°	1903.5	2320.5	1470.0	2363.9	1914.1	2368.4	1452.1
75°	2377.5	2138.9	1697.7	2185.5	2411.8	2169.2	1556.5
80°	2543.2	1925.7	2513.1	1870.2	2572.6	1962.7	2681.1
85°	2365.3	2211.7	1867.2	2219.2	2352.2	2265.9	1877.4

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Luminance values in cd/m²

γ 65°

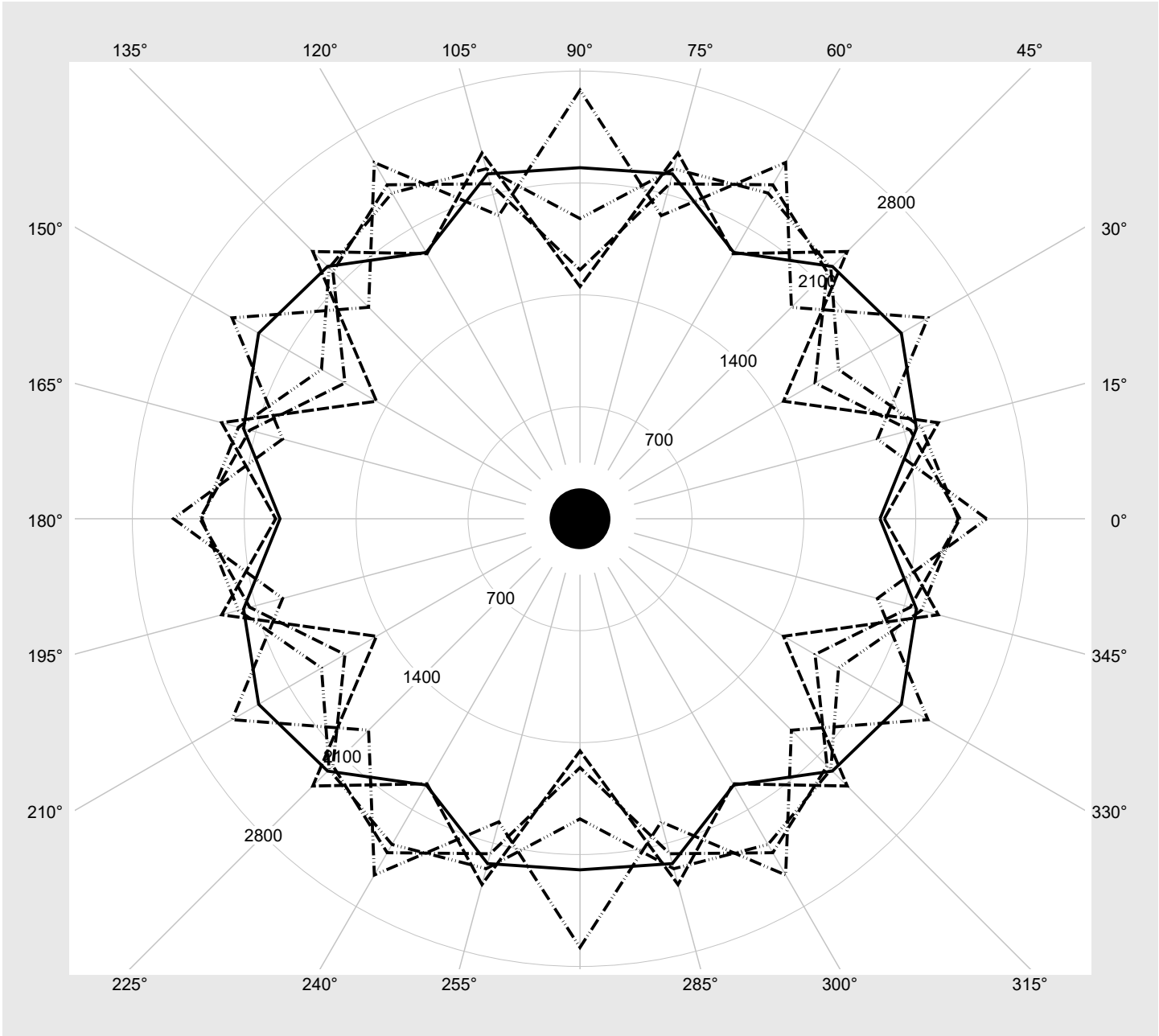
γ 70°

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	14360	90.2
95	241	252	13649	85.6
90	228	250	12937	81.0
85	215	248	12222	76.3
80	202	246	11505	71.7
75	189	243	10782	67.0
70	176	241	10058	62.4
65	163	238	9330	57.9
60	150	235	8599	53.4
55	138	232	7923	49.2
50	125	228	7188	44.8
45	112	224	6448	40.4
40	100	220	5763	36.2
35	87	215	5018	31.9
30	75	209	4329	28.0
25	62	202	3580	23.7
20	50	194	2885	19.5
15	37	183	2130	14.8
10	25	169	1430	10.4
5	13	145	729	6.1
3	8	127	436	4.3