

Photometric test report

Family
Silica® 21 round L

Order number: 51ME33DC4MBA
EAN: 4069025804693

LP number
60081_9

serial
documentation
20.05.2026

siteco



Version

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

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 14150 lm

Power consumption = 88.7 W

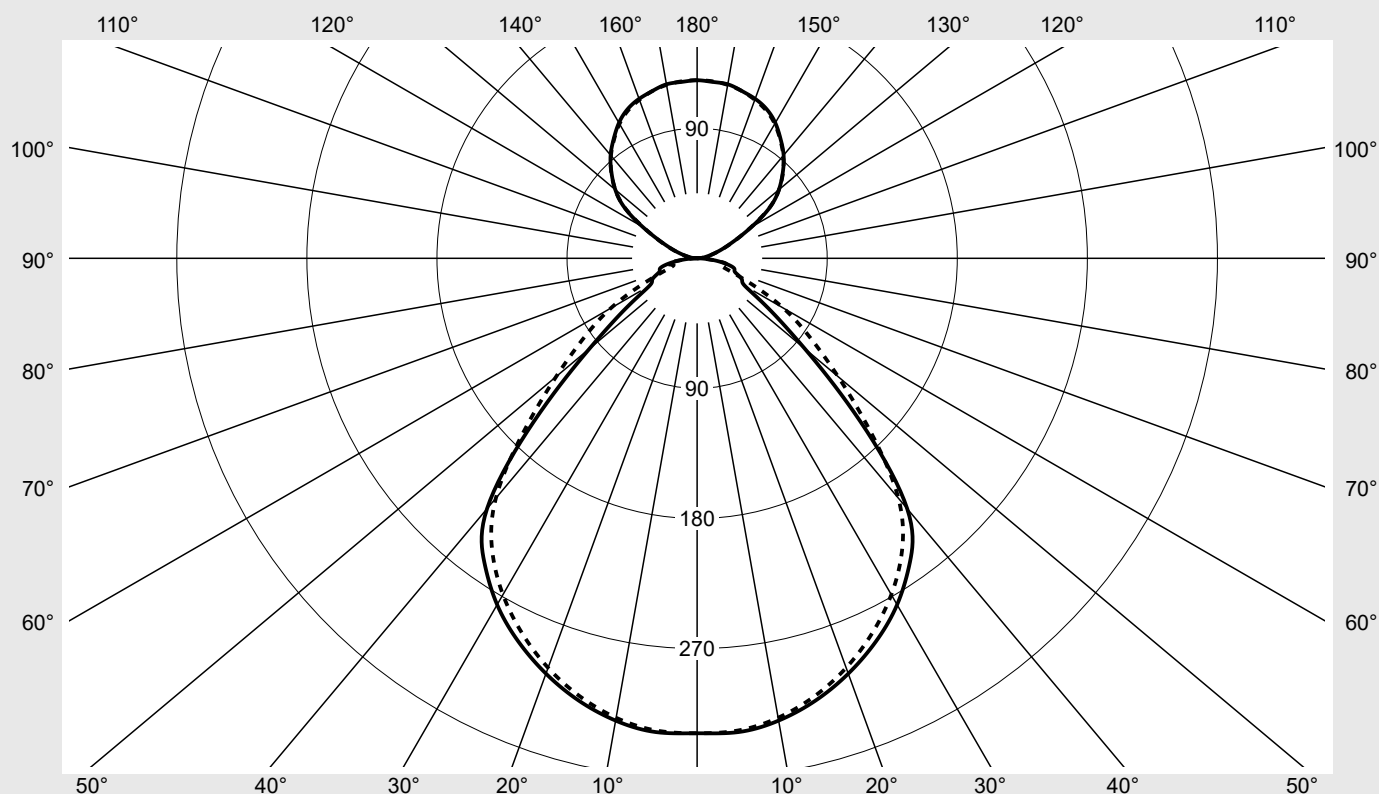
Luminous efficacy = 159.5 lm/W

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	14.8	14.5	15.6	16.5	13.6	14.6	14.3	15.4	16.3
	3H	14.4	15.3	15.2	16.1	17.1	14.2	15.1	15.0	15.9	16.9
	4H	14.8	15.7	15.6	16.5	17.5	14.5	15.4	15.3	16.2	17.2
	6H	15.3	16.0	16.1	16.9	17.9	14.9	15.7	15.8	16.6	17.6
	8H	15.4	16.1	16.2	16.9	18.0	15.1	15.8	16.0	16.7	17.7
	12H	15.5	16.2	16.4	17.1	18.1	15.2	15.9	16.1	16.8	17.8
4H	2H	13.9	14.7	14.7	15.6	16.6	13.7	14.6	14.6	15.4	16.4
	3H	14.7	15.4	15.5	16.2	17.2	14.7	15.4	15.5	16.2	17.2
	4H	15.2	15.8	16.0	16.7	17.7	15.2	15.8	16.0	16.6	17.7
	6H	15.8	16.3	16.6	17.2	18.3	15.7	16.3	16.6	17.1	18.2
	8H	15.9	16.4	16.8	17.3	18.4	15.9	16.4	16.8	17.3	18.4
	12H	16.2	16.6	17.1	17.5	18.6	16.1	16.6	17.0	17.4	18.5
8H	4H	15.3	15.8	16.2	16.7	17.8	15.3	15.8	16.2	16.7	17.8
	6H	16.1	16.5	16.9	17.4	18.5	16.0	16.4	16.9	17.3	18.5
	8H	16.4	16.8	17.3	17.7	18.8	16.4	16.8	17.3	17.7	18.8
	12H	16.7	17.0	17.6	18.0	19.1	16.7	17.0	17.6	17.9	19.1
12H	4H	15.4	15.8	16.3	16.7	17.8	15.4	15.8	16.3	16.7	17.8
	6H	16.2	16.5	17.1	17.4	18.6	16.2	16.5	17.1	17.4	18.5
	8H	16.5	16.9	17.5	17.8	18.9	16.6	16.9	17.5	17.8	18.9

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°	5189.7	5523.5	5603.2	5495.5	5015.3	5484.8	5510.6
50°	3469.0	3979.8	4646.6	3977.4	3446.0	3916.6	4546.0
55°	2396.1	2737.5	3879.2	2725.5	2374.1	2666.3	3814.9
60°	1751.2	2121.6	3123.7	2144.9	1745.8	2093.8	3160.5
65°	1849.0	2146.5	2287.1	2199.3	1895.2	2200.2	2163.6
70°	1875.6	2286.6	1448.5	2329.3	1886.1	2333.7	1430.9
75°	2342.7	2107.6	1672.9	2153.6	2376.5	2137.4	1533.7
80°	2506.1	1897.5	2476.3	1842.8	2535.0	1934.0	2641.9
85°	2330.7	2179.3	1839.9	2186.7	2317.8	2232.8	1849.9

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Luminance values in cd/m²

γ 65°

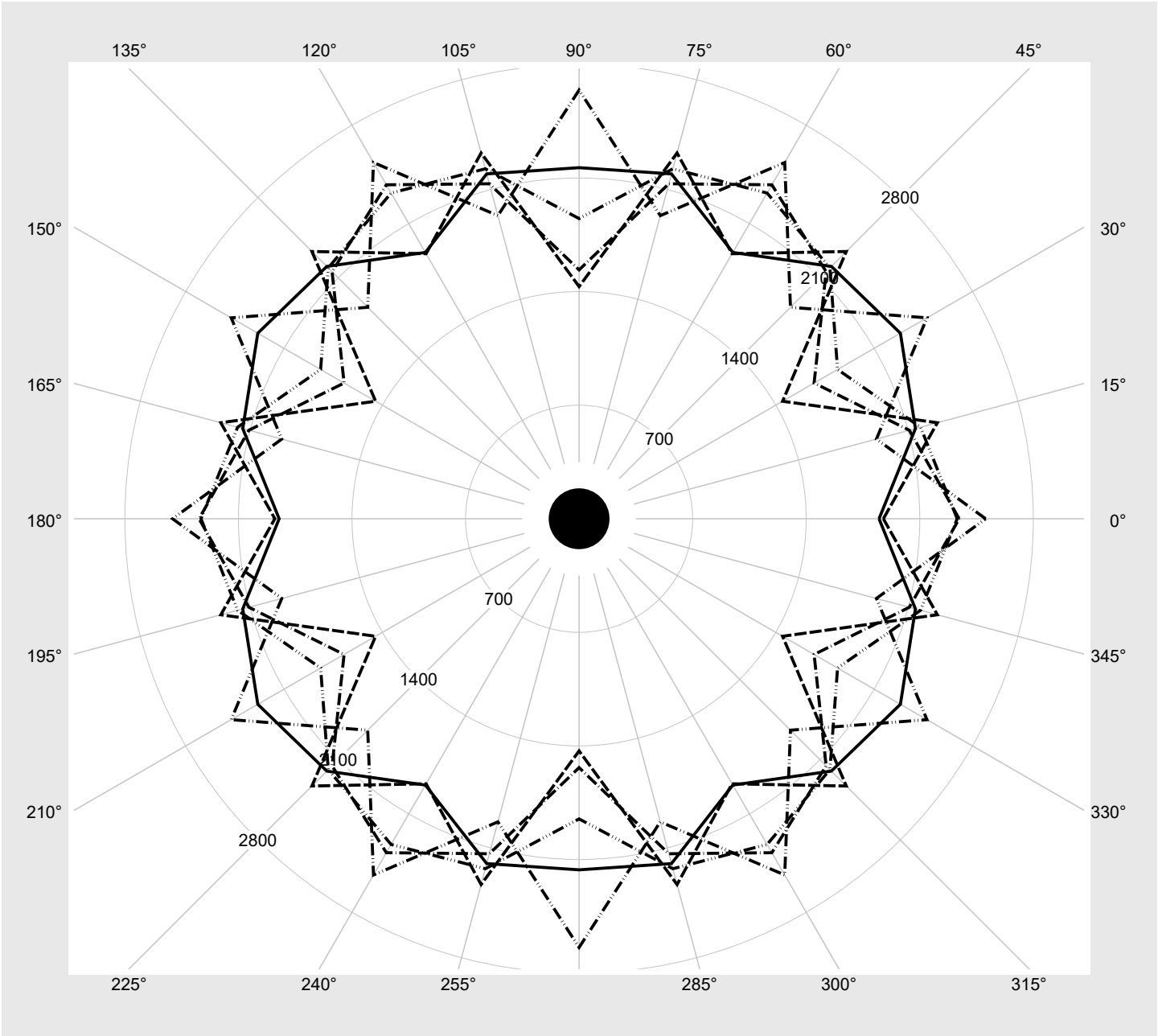
γ 70°

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	14150	88.7
95	241	252	13430	84.3
90	228	250	12710	79.8
85	216	248	12043	75.6
80	203	246	11320	71.2
75	190	243	10594	66.7
70	178	241	9923	62.5
65	165	238	9195	58.2
60	152	235	8465	53.7
55	140	232	7791	49.6
50	127	229	7060	45.3
45	115	225	6382	41.3
40	102	221	5647	36.9
35	90	216	4968	32.9
30	77	210	4232	28.8
25	65	204	3550	24.9
20	52	196	2811	20.4
15	40	186	2128	16.2
10	28	173	1444	11.8
5	15	150	701	7.0
2	8	127	300	4.5