

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DC4MBA
EAN: 4069025808431

LP number
60081_11

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

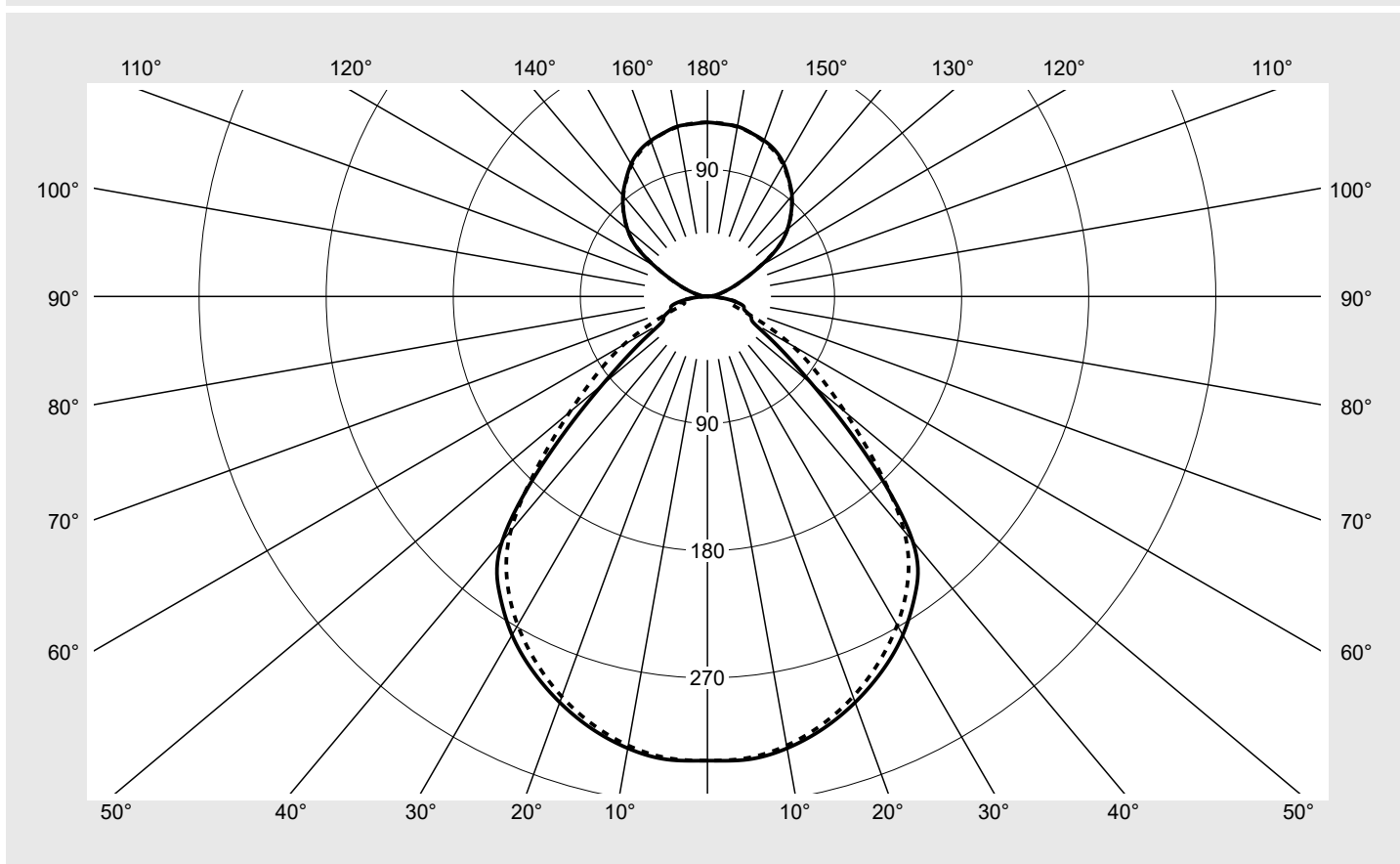
Net luminous flux = 15530 lm
Power consumption = 88.8 W
Luminous efficacy = 174.9 lm/W

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	14.1	15.1	14.9	15.9	16.9	13.9	14.9	14.7	15.7	16.7
	3H	14.7	15.6	15.5	16.4	17.4	14.5	15.4	15.3	16.2	17.2
	4H	15.1	16.0	15.9	16.8	17.8	14.8	15.7	15.6	16.5	17.5
	6H	15.6	16.4	16.4	17.2	18.2	15.3	16.1	16.1	16.9	17.9
	8H	15.7	16.4	16.5	17.3	18.3	15.4	16.2	16.3	17.0	18.0
	12H	15.9	16.5	16.7	17.4	18.4	15.6	16.2	16.4	17.1	18.1
4H	2H	14.2	15.1	15.0	15.9	16.9	14.1	14.9	14.9	15.7	16.7
	3H	15.0	15.7	15.8	16.5	17.6	15.0	15.7	15.8	16.5	17.6
	4H	15.5	16.1	16.4	17.0	18.1	15.5	16.1	16.3	17.0	18.0
	6H	16.1	16.6	17.0	17.5	18.6	16.0	16.6	16.9	17.5	18.5
	8H	16.3	16.8	17.1	17.6	18.7	16.2	16.7	17.1	17.6	18.7
	12H	16.5	16.9	17.4	17.8	18.9	16.4	16.9	17.3	17.8	18.9
8H	4H	15.6	16.1	16.5	17.0	18.1	15.6	16.1	16.5	17.0	18.1
	6H	16.4	16.8	17.3	17.7	18.8	16.4	16.8	17.3	17.7	18.8
	8H	16.7	17.1	17.6	18.0	19.1	16.7	17.1	17.6	18.0	19.1
	12H	17.1	17.4	18.0	18.3	19.4	17.0	17.4	18.0	18.3	19.4
12H	4H	15.7	16.1	16.6	17.0	18.1	15.7	16.1	16.6	17.0	18.1
	6H	16.5	16.9	17.4	17.8	18.9	16.5	16.8	17.4	17.7	18.9
	8H	16.9	17.2	17.8	18.1	19.2	16.9	17.2	17.8	18.1	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°	5695.9	6062.2	6149.7	6031.5	5504.4	6019.7	6048.0
50°	3807.3	4367.9	5099.8	4365.3	3782.1	4298.6	4989.3
55°	2629.8	3004.4	4257.6	2991.3	2605.7	2926.3	4186.9
60°	1921.9	2328.5	3428.3	2354.1	1916.0	2298.0	3468.7
65°	2029.4	2355.9	2510.1	2413.8	2080.0	2414.8	2374.6
70°	2058.5	2509.6	1589.8	2556.5	2070.0	2561.3	1570.4
75°	2571.2	2313.2	1836.0	2363.6	2608.3	2345.9	1683.3
80°	2750.5	2082.6	2717.8	2022.6	2782.2	2122.6	2899.6
85°	2558.1	2391.9	2019.3	2400.0	2543.9	2450.5	2030.3

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Luminance values in cd/m²

γ 65°

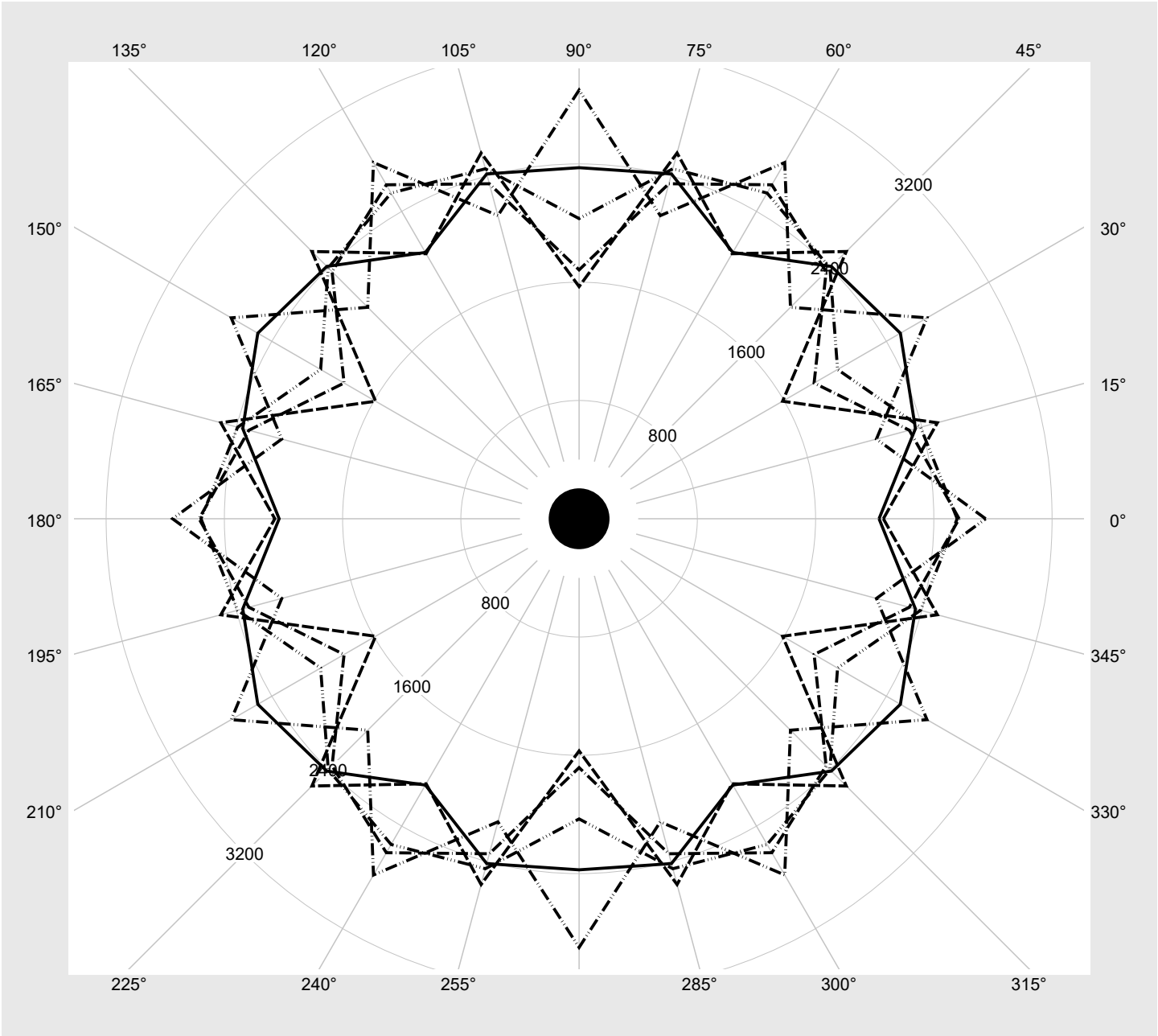
γ 70°

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	15530	88.8
95	241	252	14745	84.4
90	228	250	13959	79.9
85	216	248	13231	75.7
80	203	246	12441	71.2
75	190	243	11646	66.6
70	177	241	10850	62.1
65	165	238	10113	58.1
60	152	235	9311	53.6
55	140	232	8569	49.4
50	127	229	7766	45.1
45	115	225	7017	41.1
40	102	221	6207	36.7
35	90	216	5456	32.6
30	77	210	4641	28.5
25	65	204	3885	24.6
20	53	197	3128	20.5
15	40	186	2306	15.9
10	28	173	1544	11.5
5	16	153	781	7.2
2	8	127	269	4.3