

Photometric test report

Family
Silica® 21 round S

Order number: 51MF33DA3MWA
EAN: 4069025807939

LP number
60074_4

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

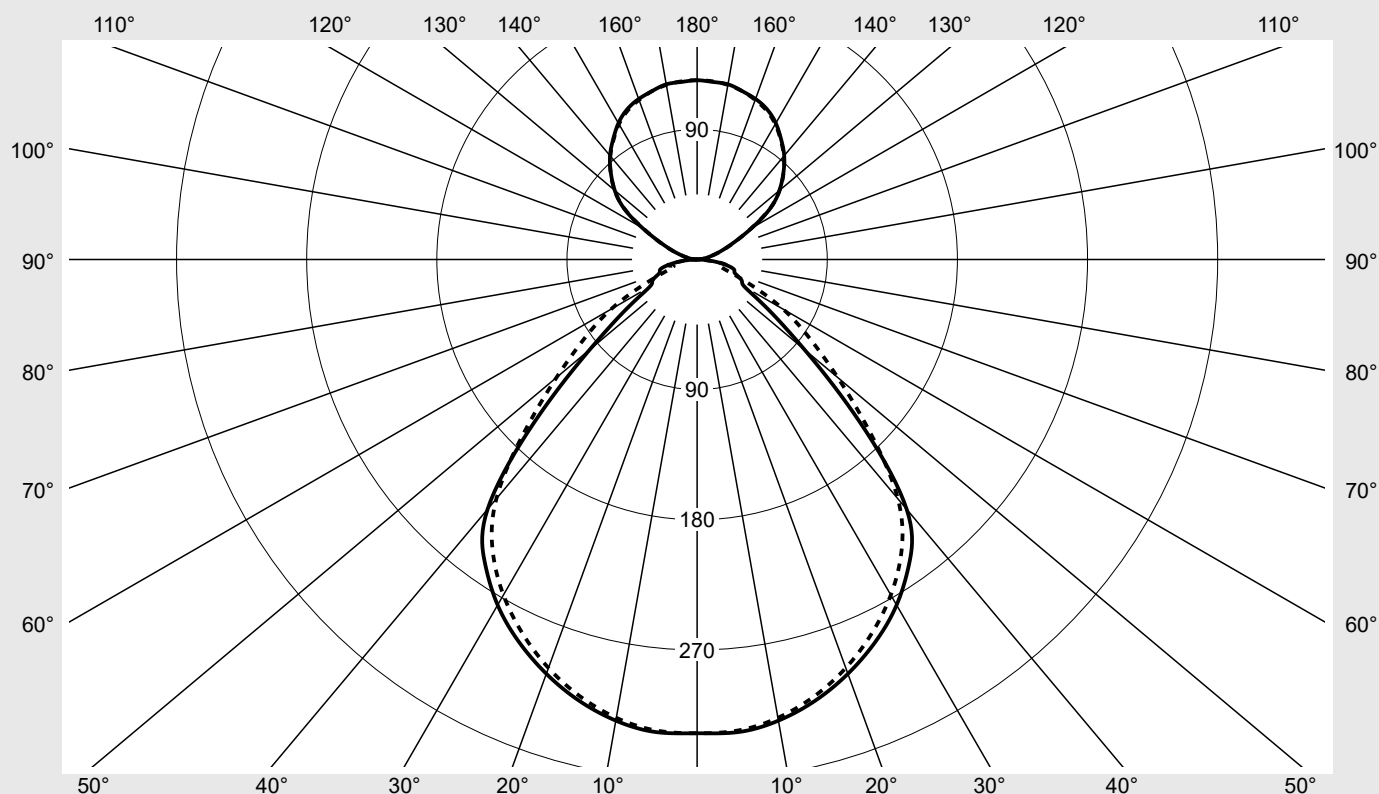
Rated values Net luminous flux = 3580 lm
Power consumption = 22.4 W
Luminous efficacy = 159.8 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 328 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=67 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 67.4%
 ϕ_o 32.6%

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°	327.6	327.6	327.6	327.6	327.6	327.6	327.6	2.0	2.0
5°	328.0	326.3	324.5	325.6	327.1	326.9	326.9	15.6	17.5
10°	323.8	322.0	319.9	320.8	322.1	321.9	321.8	30.6	48.2
15°	315.8	314.1	311.7	312.3	313.3	312.9	312.8	44.4	92.6
20°	304.9	303.1	300.5	300.6	301.2	300.7	300.6	56.5	149.1
25°	291.7	289.7	286.4	286.3	286.9	286.1	285.5	66.6	215.7
30°	275.9	273.5	269.7	269.5	270.4	269.0	267.9	74.2	289.8
35°	255.9	253.6	249.0	249.3	249.9	248.4	246.4	78.7	368.5
40°	225.4	225.5	221.4	221.1	217.5	218.5	216.0	77.8	446.3
45°	159.4	169.7	172.1	168.8	154.1	168.5	169.3	64.4	510.7
50°	96.9	111.1	129.8	111.1	96.2	109.4	126.9	46.9	557.6
55°	59.7	68.2	96.7	67.9	59.2	66.4	95.1	32.6	590.2
60°	38.0	46.1	67.9	46.6	37.9	45.5	68.7	23.5	613.7
65°	33.9	39.4	42.0	40.4	34.8	40.4	39.7	19.4	633.1
70°	27.9	34.0	21.5	34.6	28.0	34.7	21.3	15.2	648.3
75°	26.3	23.7	18.8	24.2	26.7	24.0	17.2	12.3	660.6
80°	18.9	14.3	18.7	13.9	19.1	14.6	19.9	9.0	669.6
85°	8.8	8.3	7.0	8.3	8.8	8.5	7.0	4.4	674.0
90°	0.7	0.9	0.5	0.8	0.6	0.6	0.4	0.4	674.4
95°	2.8	2.7	2.7	2.7	2.8	2.7	2.7	1.5	675.9
100°	6.4	6.2	6.2	6.3	6.4	6.3	6.4	3.4	679.3
105°	11.2	11.1	11.2	11.3	11.4	11.3	11.4	6.0	685.2
110°	18.4	18.3	18.5	18.7	18.8	18.7	18.7	9.6	694.8
115°	28.4	28.3	28.6	28.7	28.9	29.0	28.9	14.2	709.1
120°	43.8	43.6	43.4	43.5	43.4	43.4	43.3	20.6	729.7
125°	61.8	61.7	61.7	61.6	62.0	61.9	61.6	27.7	757.4
130°	74.4	74.2	74.4	74.7	75.1	74.7	74.4	31.3	788.7
135°	84.3	84.3	84.7	85.2	85.1	84.8	84.6	32.9	821.6
140°	93.7	93.5	93.6	93.8	93.7	93.5	93.3	33.0	854.6
145°	101.3	101.4	101.6	101.5	101.2	101.1	100.9	31.9	886.4
150°	108.8	108.8	108.8	108.6	108.3	108.3	108.1	29.8	916.2
155°	114.5	114.2	114.0	113.7	113.6	113.6	113.6	26.4	942.5
160°	118.1	117.9	117.6	117.3	117.6	117.2	117.4	22.0	964.6
165°	120.6	120.6	120.5	120.6	120.5	120.2	120.5	17.1	981.7
170°	123.0	123.0	122.9	122.6	122.2	122.4	122.6	11.7	993.4
175°	123.3	123.3	123.4	123.5	123.5	123.6	123.7	5.9	999.3
180°	124.0	124.0	124.0	124.0	124.0	124.0	124.0	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	14.7	15.8	15.5	16.6	17.5	14.6	15.6	15.3	16.4	17.3
	3H	15.3	16.2	16.1	17.1	18.0	15.2	16.1	16.0	16.9	17.9
	4H	15.8	16.6	16.6	17.4	18.5	15.5	16.3	16.3	17.2	18.2
	6H	16.2	17.0	17.1	17.8	18.9	15.9	16.7	16.7	17.5	18.5
	8H	16.4	17.1	17.2	17.9	19.0	16.1	16.8	16.9	17.6	18.7
	12H	16.5	17.2	17.4	18.0	19.1	16.2	16.9	17.1	17.7	18.8
4H	2H	14.9	15.7	15.7	16.5	17.5	14.7	15.6	15.5	16.4	17.4
	3H	15.6	16.3	16.5	17.2	18.2	15.6	16.3	16.5	17.2	18.2
	4H	16.2	16.8	17.0	17.6	18.7	16.1	16.8	17.0	17.6	18.7
	6H	16.7	17.3	17.6	18.2	19.2	16.7	17.2	17.6	18.1	19.2
	8H	16.9	17.4	17.8	18.3	19.4	16.9	17.4	17.8	18.3	19.4
	12H	17.2	17.6	18.0	18.5	19.6	17.1	17.5	18.0	18.4	19.5
8H	4H	16.3	16.8	17.2	17.7	18.8	16.3	16.8	17.2	17.7	18.8
	6H	17.0	17.4	17.9	18.3	19.5	17.0	17.4	17.9	18.3	19.4
	8H	17.4	17.7	18.3	18.6	19.8	17.4	17.8	18.3	18.7	19.8
	12H	17.7	18.0	18.6	18.9	20.1	17.7	18.0	18.6	18.9	20.0
12H	4H	16.4	16.8	17.2	17.7	18.8	16.3	16.8	17.2	17.7	18.8
	6H	17.1	17.5	18.1	18.4	19.5	17.1	17.5	18.0	18.4	19.5
	8H	17.5	17.8	18.4	18.7	19.9	17.5	17.9	18.5	18.8	19.9

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 386	
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°	6897.3	7340.8	7446.8	7303.6	6665.4	7289.4	7323.7
50°	4610.4	5289.2	6175.4	5286.1	4579.8	5205.3	6041.7
55°	3184.5	3638.2	5155.6	3622.2	3155.3	3543.5	5070.0
60°	2327.3	2819.7	4151.4	2850.6	2320.2	2782.7	4200.4
65°	2457.4	2852.8	3039.5	2923.0	2518.7	2924.1	2875.5
70°	2492.7	3038.9	1925.1	3095.7	2506.7	3101.6	1901.6
75°	3113.5	2801.0	2223.4	2862.1	3158.5	2840.7	2038.4
80°	3330.6	2522.0	3291.2	2449.0	3369.2	2570.4	3511.2
85°	3097.3	2896.6	2445.2	2906.0	3080.5	2967.5	2458.5

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Luminance values in cd/m²

γ 65°

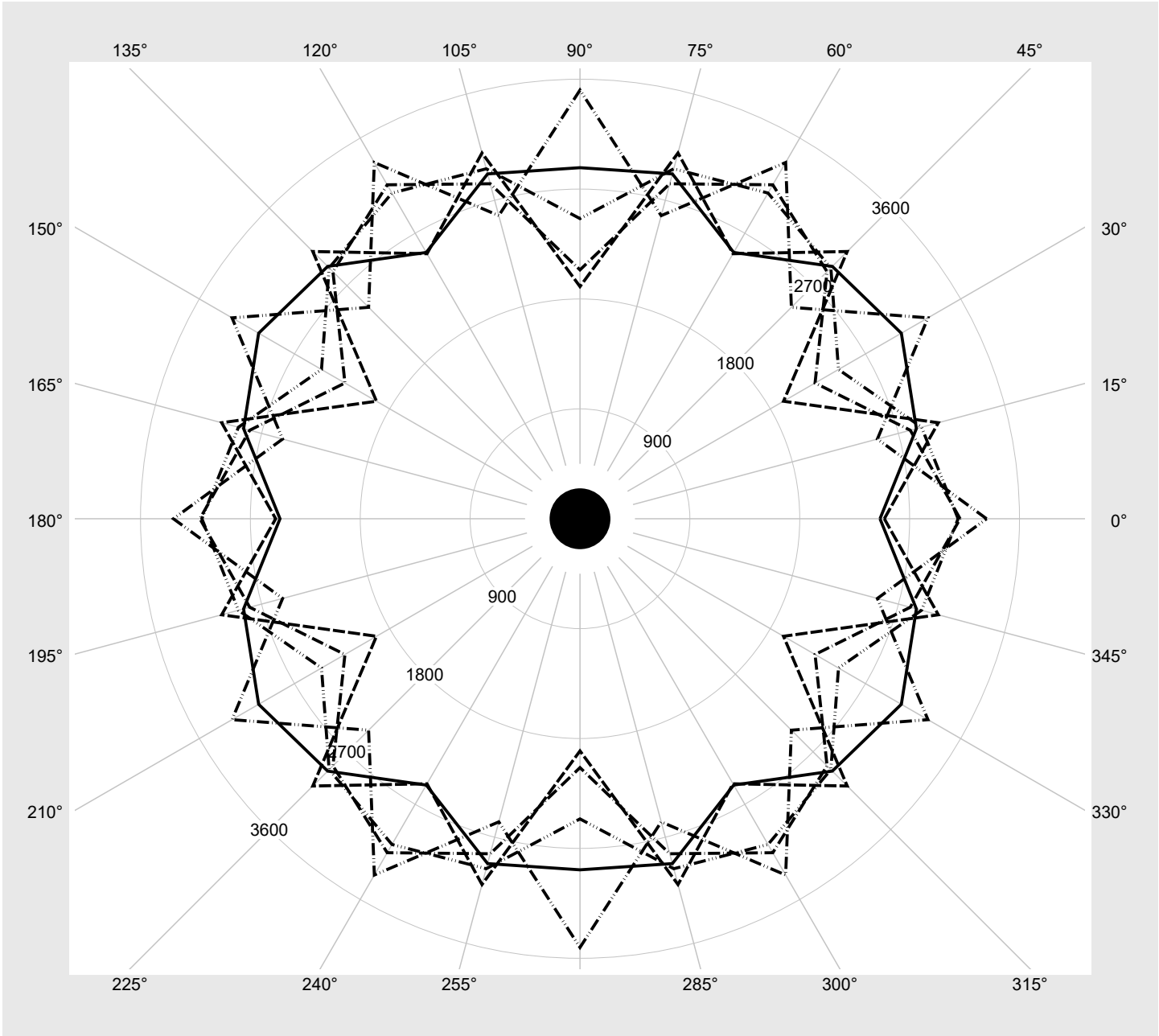
γ 70°

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	3580	22.4
95	241	252	3400	21.3
90	228	250	3220	20.2
85	215	248	3040	19.1
80	202	246	2858	18.0
75	190	243	2690	16.9
70	177	241	2508	15.8
65	164	238	2325	14.8
60	151	235	2141	13.7
55	139	232	1971	12.7
50	126	228	1786	11.6
45	114	225	1615	10.6
40	101	220	1429	9.5
35	89	216	1257	8.4
30	76	210	1071	7.3
25	64	204	898	6.3
20	51	195	709	5.2
15	39	185	535	4.2
10	27	172	361	3.1
5	15	150	185	1.8
3	9	132	97	1.2