

Photometric test report

Family
Silica® 21 round S

Order number: 51ME33DA3MWA
EAN: 4069025800527

LP number
60074_2

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

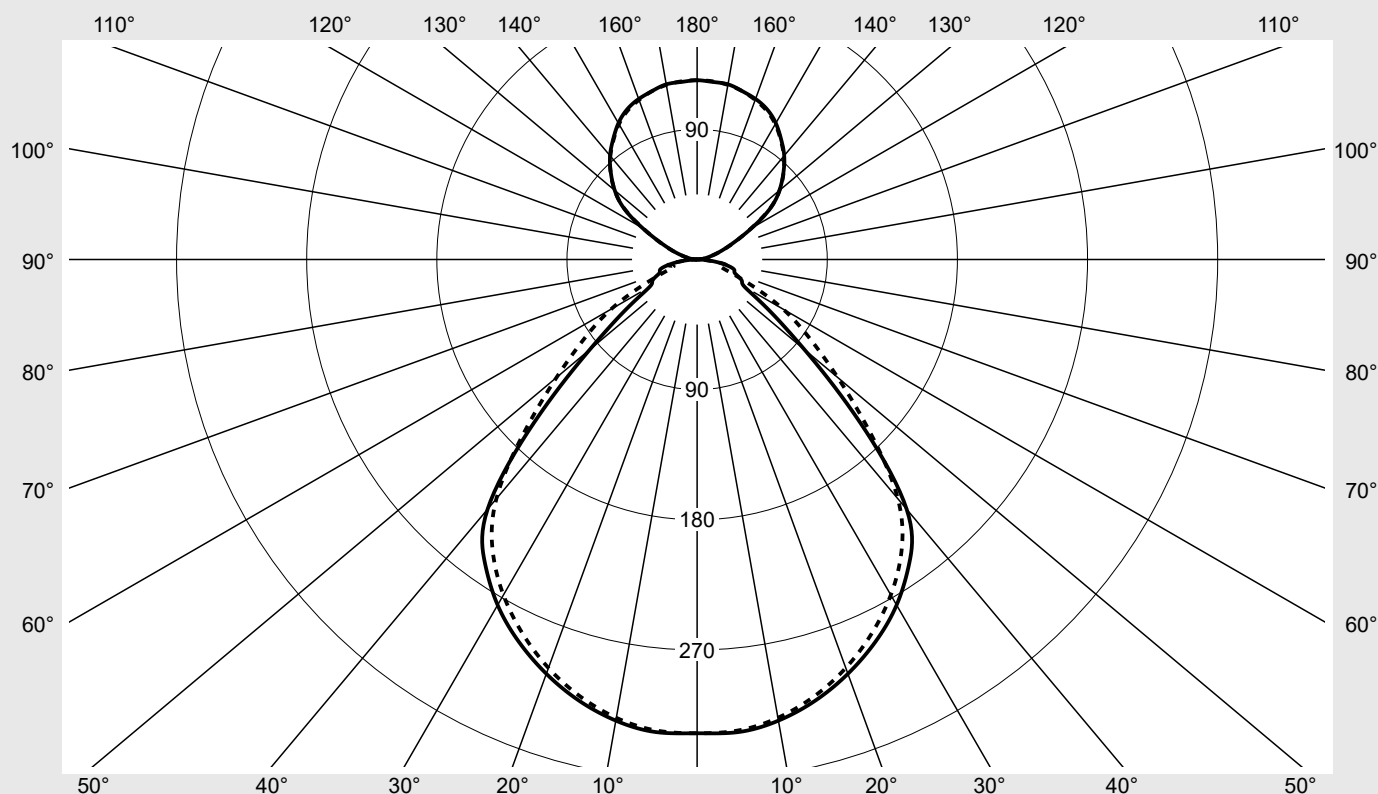
Rated values Net luminous flux = 3580 lm
Power consumption = 24.5 W
Luminous efficacy = 146.1 lm/W

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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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)			
2H	x									
	y									
	2H	14.7	15.8	15.5	16.6	17.5	14.6	15.6	15.3	16.4
	3H	15.3	16.2	16.1	17.1	18.0	15.2	16.1	16.0	16.9
	4H	15.8	16.6	16.6	17.4	18.5	15.5	16.3	16.3	17.2
	6H	16.2	17.0	17.1	17.8	18.9	15.9	16.7	16.7	17.5
4H	8H	16.4	17.1	17.2	17.9	19.0	16.1	16.8	16.9	17.6
	12H	16.5	17.2	17.4	18.0	19.1	16.2	16.9	17.1	17.7
	2H	14.9	15.7	15.7	16.5	17.5	14.7	15.6	15.5	16.4
	3H	15.6	16.3	16.5	17.2	18.2	15.6	16.3	16.5	17.2
	4H	16.2	16.8	17.0	17.6	18.7	16.1	16.8	17.0	17.6
	6H	16.7	17.3	17.6	18.2	19.2	16.7	17.2	17.6	18.1
8H	8H	16.9	17.4	17.8	18.3	19.4	16.9	17.4	17.8	18.3
	12H	17.2	17.6	18.0	18.5	19.6	17.1	17.5	18.0	18.4
	4H	16.3	16.8	17.2	17.7	18.8	16.3	16.8	17.2	17.7
	6H	17.0	17.4	17.9	18.3	19.5	17.0	17.4	17.9	18.3
	8H	17.4	17.7	18.3	18.6	19.8	17.4	17.8	18.3	18.7
	12H	17.7	18.0	18.6	18.9	20.1	17.7	18.0	18.6	18.9
12H	4H	16.4	16.8	17.2	17.7	18.8	16.3	16.8	17.2	17.7
	6H	17.1	17.5	18.1	18.4	19.5	17.1	17.5	18.0	18.4
	8H	17.5	17.8	18.4	18.7	19.9	17.5	17.9	18.5	18.8
	2H	14.7	15.8	15.5	16.6	17.5	14.6	15.6	15.3	16.4
	3H	15.3	16.2	16.1	17.1	18.0	15.2	16.1	16.0	16.9
	4H	15.8	16.6	16.6	17.4	18.5	15.5	16.3	16.3	17.2

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°

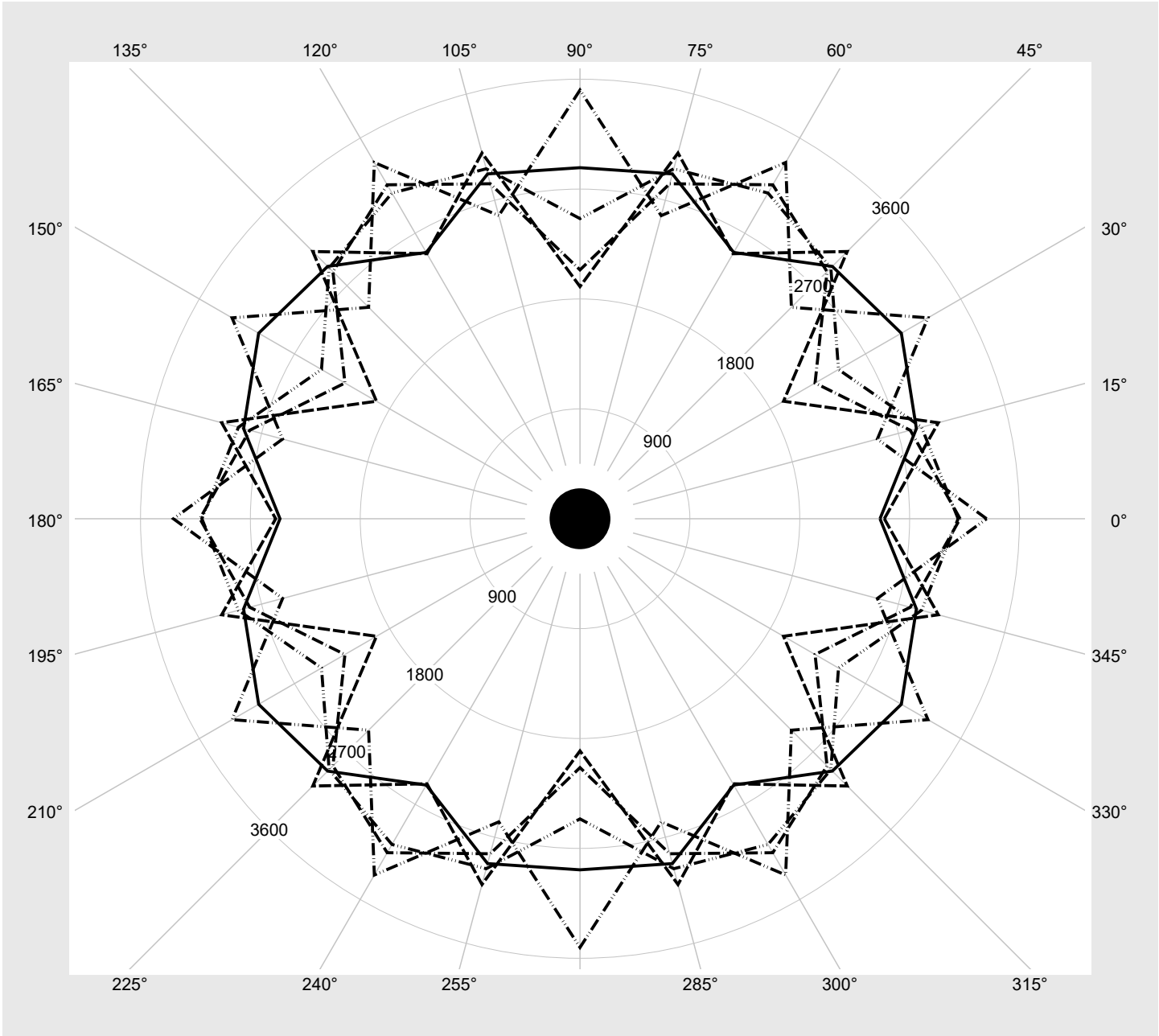
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	3580	24.5
95	241	252	3399	23.2
90	228	250	3218	22.0
85	215	248	3037	20.8
80	203	246	2868	19.7
75	190	243	2686	18.5
70	177	241	2503	17.3
65	165	238	2334	16.2
60	152	235	2149	15.0
55	139	232	1965	13.9
50	127	229	1794	12.8
45	114	225	1609	11.6
40	102	221	1438	10.5
35	89	216	1252	9.3
30	77	210	1080	8.1
25	64	204	894	6.9
20	52	196	721	5.8
15	39	185	533	4.5
10	27	172	360	3.4
5	15	150	186	2.0
3	9	132	99	1.4