

Photometric test report

Family
Silica® 21 round S

Order number: 51ME33DA3MBA
EAN: 4069025800480

LP number
60075_2

serial
documentation
20.05.2026



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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 3940 lm
Power consumption = 29.5 W
Luminous efficacy = 133.6 lm/W

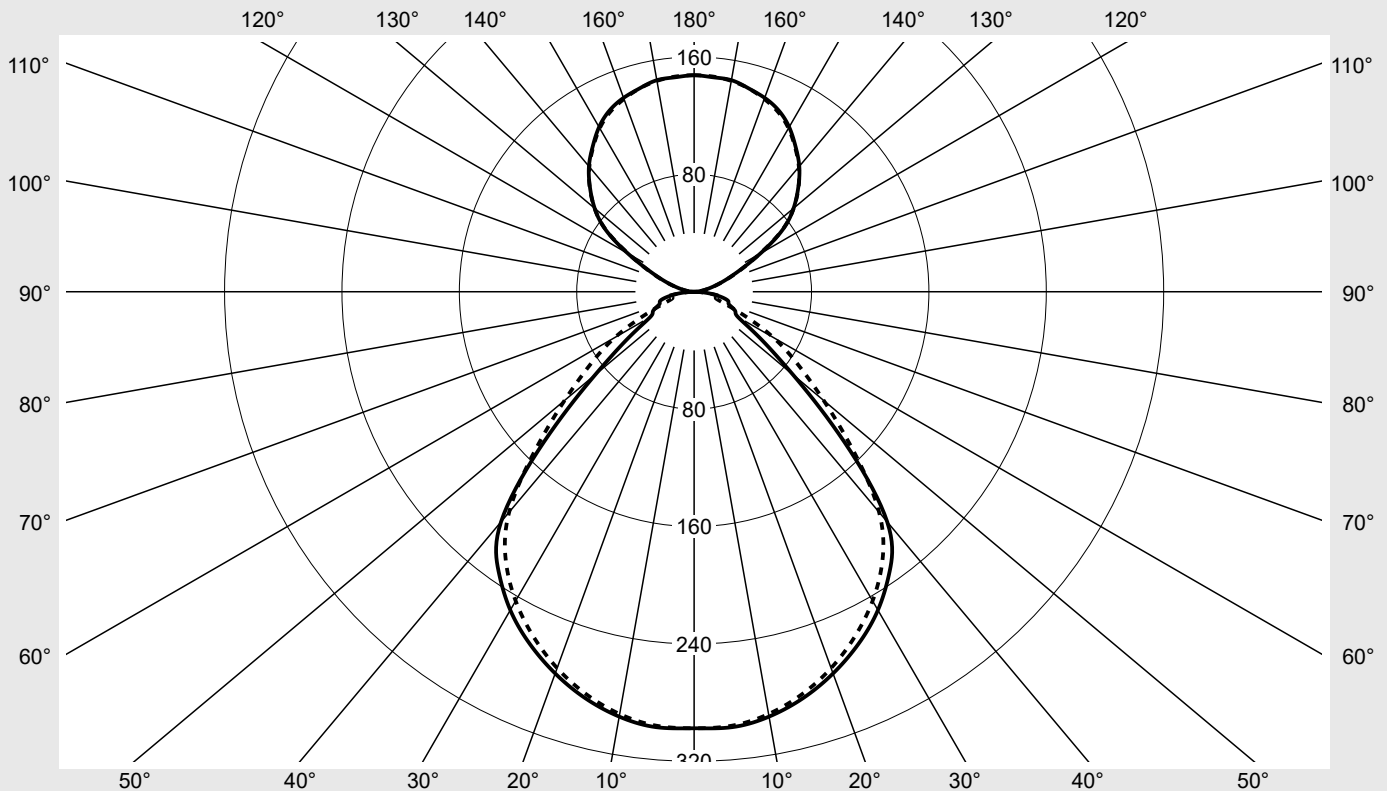
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 298 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=61 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 61.2%
 ϕ_o 38.8%

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°	297.5	297.5	297.5	297.5	297.5	297.5	297.5	1.8	1.8
5°	297.9	296.3	294.6	295.7	297.1	296.9	296.8	14.2	15.9
10°	294.0	292.4	290.5	291.3	292.5	292.2	292.2	27.8	43.7
15°	286.8	285.2	283.1	283.6	284.4	284.1	284.0	40.3	84.1
20°	276.8	275.2	272.8	273.0	273.5	273.1	272.9	51.3	135.4
25°	264.9	263.0	260.1	260.0	260.5	259.8	259.2	60.4	195.8
30°	250.5	248.3	244.9	244.7	245.5	244.2	243.3	67.4	263.2
35°	232.4	230.3	226.1	226.3	226.9	225.6	223.7	71.4	334.6
40°	204.7	204.8	201.0	200.8	197.5	198.4	196.1	70.6	405.2
45°	144.8	154.1	156.3	153.3	139.9	153.0	153.7	58.5	463.8
50°	88.0	100.9	117.8	100.8	87.4	99.3	115.3	42.5	506.3
55°	54.2	61.9	87.8	61.7	53.7	60.3	86.3	29.6	535.9
60°	34.5	41.8	61.6	42.3	34.4	41.3	62.3	21.4	557.3
65°	30.8	35.8	38.1	36.7	31.6	36.7	36.1	17.6	574.8
70°	25.3	30.9	19.5	31.4	25.4	31.5	19.3	13.8	588.7
75°	23.9	21.5	17.1	22.0	24.3	21.8	15.7	11.2	599.8
80°	17.2	13.0	17.0	12.6	17.4	13.2	18.1	8.2	608.0
85°	8.0	7.5	6.3	7.5	8.0	7.7	6.4	4.0	612.0
90°	0.8	1.0	0.6	0.9	0.7	0.8	0.4	0.4	612.4
95°	3.4	3.3	3.2	3.2	3.3	3.3	3.2	1.8	614.2
100°	7.6	7.4	7.4	7.5	7.6	7.5	7.6	4.0	618.3
105°	13.3	13.2	13.4	13.5	13.6	13.5	13.6	7.1	625.4
110°	21.9	21.7	22.1	22.3	22.3	22.3	22.3	11.4	636.8
115°	33.8	33.7	34.0	34.1	34.4	34.5	34.4	17.0	653.7
120°	52.1	51.9	51.7	51.7	51.6	51.6	51.5	24.6	678.3
125°	73.6	73.4	73.4	73.3	73.7	73.7	73.3	33.0	711.3
130°	88.5	88.3	88.5	88.9	89.3	88.9	88.6	37.3	748.6
135°	100.4	100.4	100.8	101.4	101.3	100.9	100.6	39.1	787.6
140°	111.5	111.3	111.3	111.7	111.6	111.3	111.1	39.3	826.9
145°	120.6	120.7	120.9	120.8	120.5	120.4	120.0	37.9	864.8
150°	129.5	129.5	129.5	129.3	128.9	128.9	128.6	35.4	900.2
155°	136.3	136.0	135.6	135.3	135.2	135.2	135.2	31.4	931.6
160°	140.6	140.3	140.0	139.7	140.0	139.5	139.8	26.2	957.9
165°	143.5	143.5	143.4	143.6	143.5	143.1	143.4	20.3	978.2
170°	146.4	146.4	146.3	146.0	145.5	145.7	145.9	13.9	992.1
175°	146.7	146.7	146.8	147.0	147.0	147.1	147.2	7.0	999.1
180°	147.5	147.5	147.5	147.5	147.5	147.5	147.5	0.9	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	14.3	15.2	15.1	16.1	17.1	14.1	15.1	14.9	15.9	16.9
	3H	14.8	15.7	15.7	16.6	17.7	14.7	15.5	15.5	16.4	17.5
	4H	15.3	16.1	16.2	17.0	18.1	15.0	15.8	15.9	16.7	17.8
	6H	15.7	16.5	16.6	17.4	18.5	15.4	16.2	16.3	17.0	18.2
	8H	15.8	16.5	16.7	17.4	18.6	15.6	16.2	16.5	17.1	18.3
	12H	16.0	16.6	16.9	17.5	18.7	15.7	16.3	16.6	17.2	18.4
4H	2H	14.4	15.2	15.2	16.0	17.1	14.2	15.0	15.1	15.9	17.0
	3H	15.1	15.8	16.0	16.7	17.8	15.1	15.8	16.0	16.7	17.8
	4H	15.7	16.2	16.6	17.2	18.3	15.6	16.2	16.5	17.1	18.3
	6H	16.2	16.8	17.2	17.7	18.8	16.2	16.7	17.1	17.6	18.8
	8H	16.4	16.9	17.3	17.8	19.0	16.4	16.8	17.3	17.8	19.0
	12H	16.6	17.0	17.6	18.0	19.2	16.6	17.0	17.5	17.9	19.1
8H	4H	15.8	16.2	16.7	17.2	18.4	15.8	16.2	16.7	17.2	18.4
	6H	16.5	16.9	17.4	17.8	19.0	16.5	16.9	17.4	17.8	19.0
	8H	16.8	17.2	17.8	18.2	19.4	16.9	17.2	17.8	18.2	19.4
	12H	17.2	17.5	18.1	18.4	19.7	17.2	17.5	18.1	18.4	19.6
12H	4H	15.8	16.2	16.8	17.2	18.4	15.8	16.2	16.8	17.2	18.4
	6H	16.6	17.0	17.6	17.9	19.1	16.6	16.9	17.6	17.9	19.1
	8H	17.0	17.3	18.0	18.2	19.5	17.0	17.3	18.0	18.3	19.5

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°
		Luminance in cd/m²					
γ							
45°	6892.6	7335.9	7441.8	7298.8	6660.9	7284.5	7318.8
50°	4607.2	5285.6	6171.3	5282.5	4576.7	5201.8	6037.6
55°	3182.4	3635.7	5152.1	3619.8	3153.1	3541.2	5066.5
60°	2325.7	2817.8	4148.6	2848.7	2318.6	2780.8	4197.5
65°	2455.8	2850.8	3037.5	2920.9	2517.1	2922.1	2873.5
70°	2491.1	3036.9	1923.8	3093.6	2505.0	3099.6	1900.3
75°	3111.4	2799.1	2221.8	2860.2	3156.3	2838.8	2037.0
80°	3328.4	2520.2	3288.8	2447.5	3366.9	2568.7	3508.9
85°	3095.5	2894.6	2443.4	2904.3	3078.1	2965.3	2456.9

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Luminance values in cd/m²

γ 65°

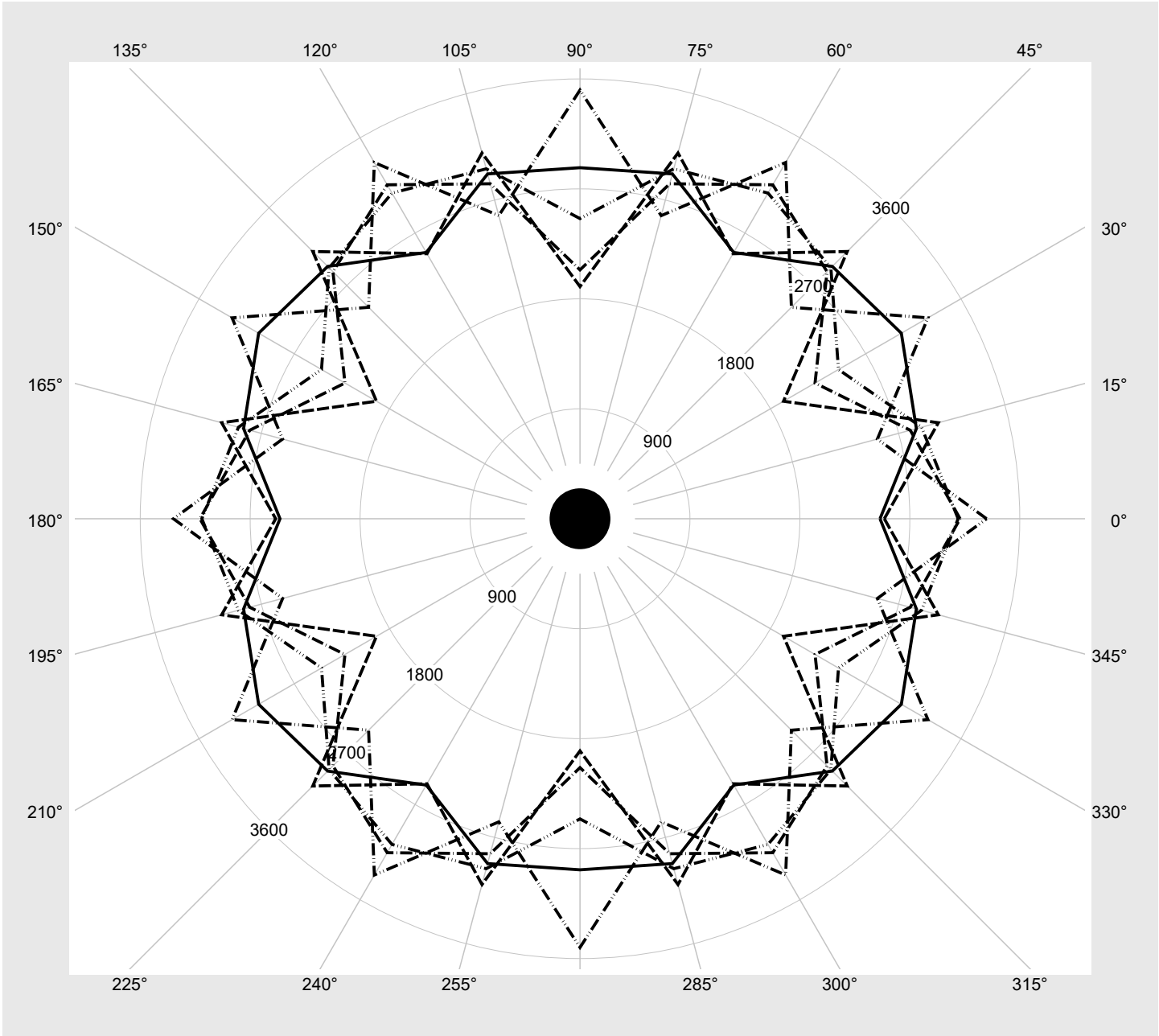
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	3940	29.5
95	241	252	3742	28.1
90	228	250	3544	26.6
85	215	248	3346	25.2
80	202	246	3146	23.7
75	190	243	2962	22.3
70	177	241	2762	20.8
65	164	238	2560	19.4
60	151	235	2359	17.9
55	139	232	2172	16.6
50	126	228	1968	15.2
45	114	225	1781	13.8
40	101	220	1576	12.4
35	88	215	1371	10.9
30	76	210	1182	9.6
25	64	204	992	8.2
20	51	195	786	6.7
15	39	185	595	5.4
10	26	171	388	3.8
5	14	148	196	2.3
2	7	122	83	1.3