

Photometric test report

Family
Silica® 21 round S

Order number: 51MF33DA4MBA
EAN: 4069025807953

LP number
60075_5

serial
documentation
20.05.2026



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 = 3940 lm
Power consumption = 26.0 W
Luminous efficacy = 151.5 lm/W

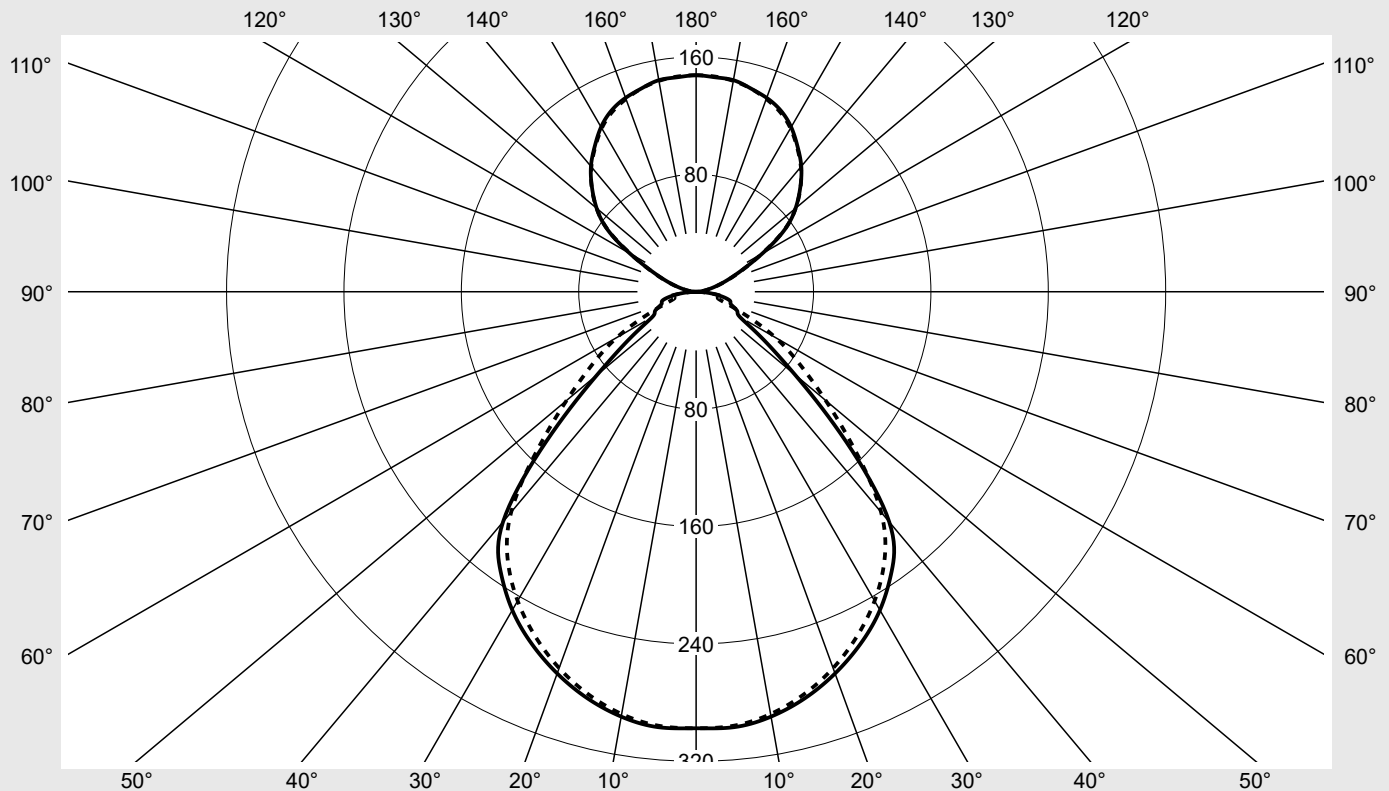
siteco

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°
γ	Luminance in cd/m²						
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°

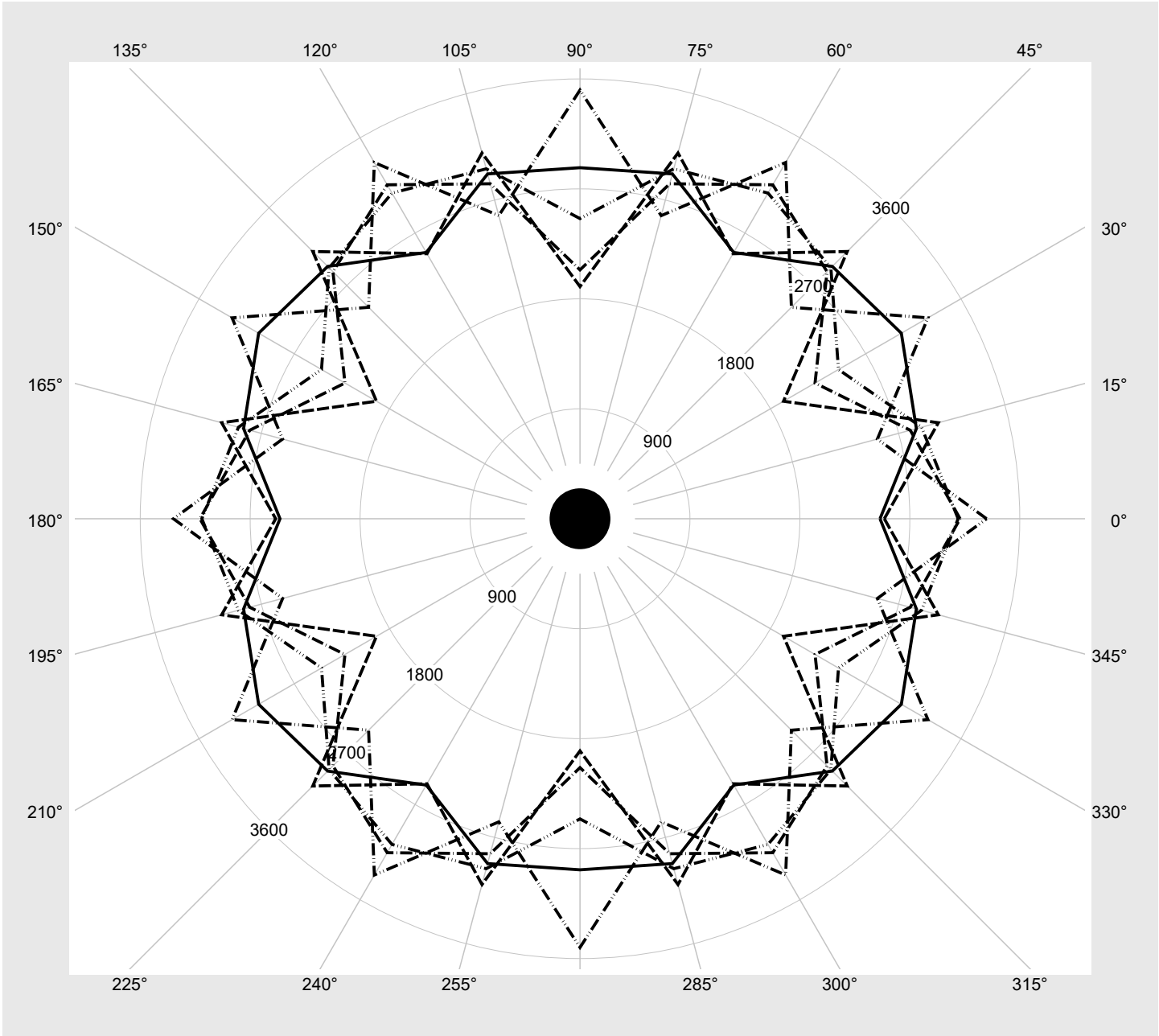
γ 70°

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	26.0
95	241	252	3743	24.7
90	228	250	3546	23.4
85	215	248	3348	22.1
80	202	246	3148	20.7
75	189	243	2949	19.4
70	177	241	2763	18.2
65	164	238	2562	17.1
60	151	235	2360	15.8
55	139	232	2172	14.6
50	126	228	1969	13.3
45	114	225	1780	12.1
40	101	220	1574	10.8
35	89	216	1384	9.6
30	76	210	1178	8.4
25	64	204	986	7.2
20	52	196	795	6.0
15	39	185	586	4.7
10	27	172	392	3.4
5	15	150	197	2.1
2	8	127	84	1.3