

Photometric test report

Family
Silica® 21 round S

Order number: 51MF33DAEMBA
EAN: 4069025808073

LP number
60075_7

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 3940 lm
Power consumption = 28.5 W
Luminous efficacy = 138.2 lm/W

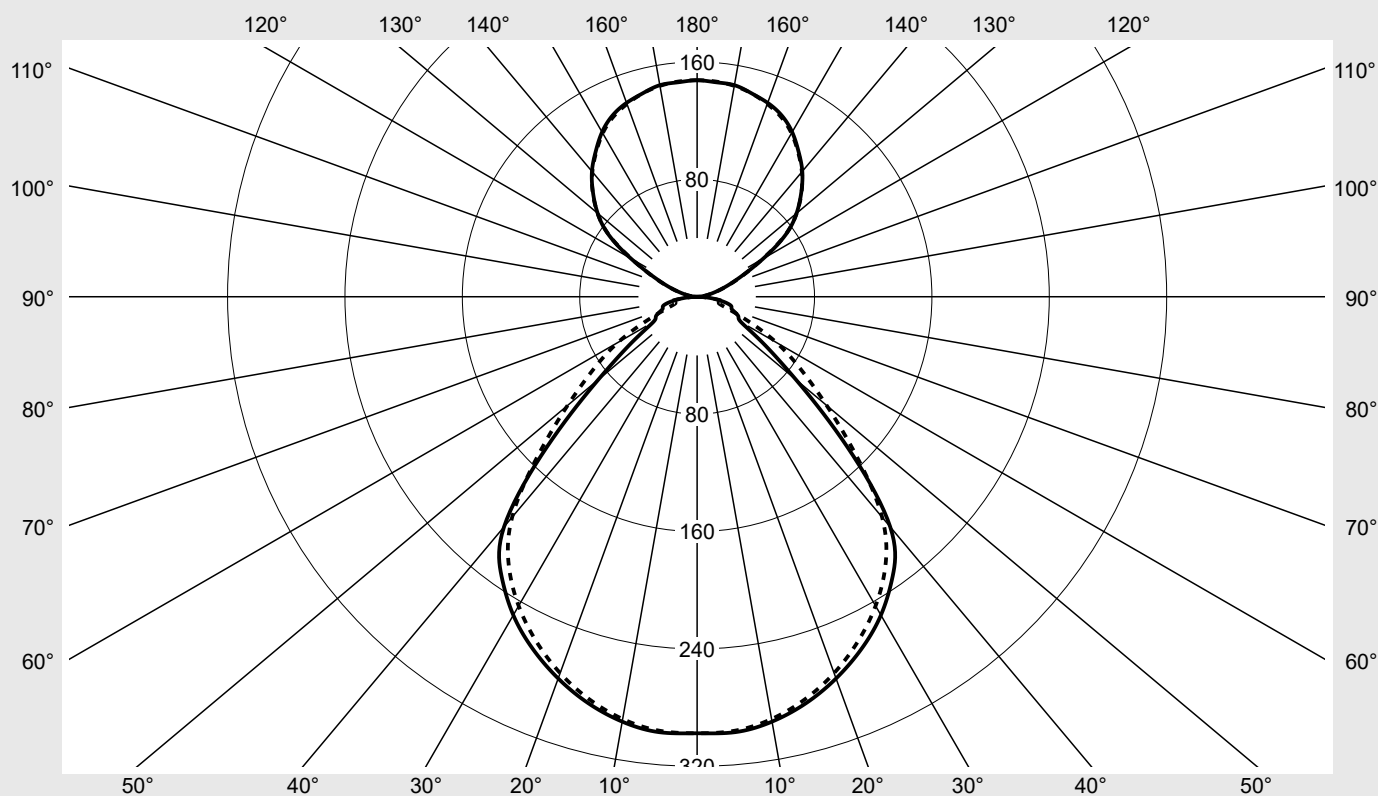
siteco

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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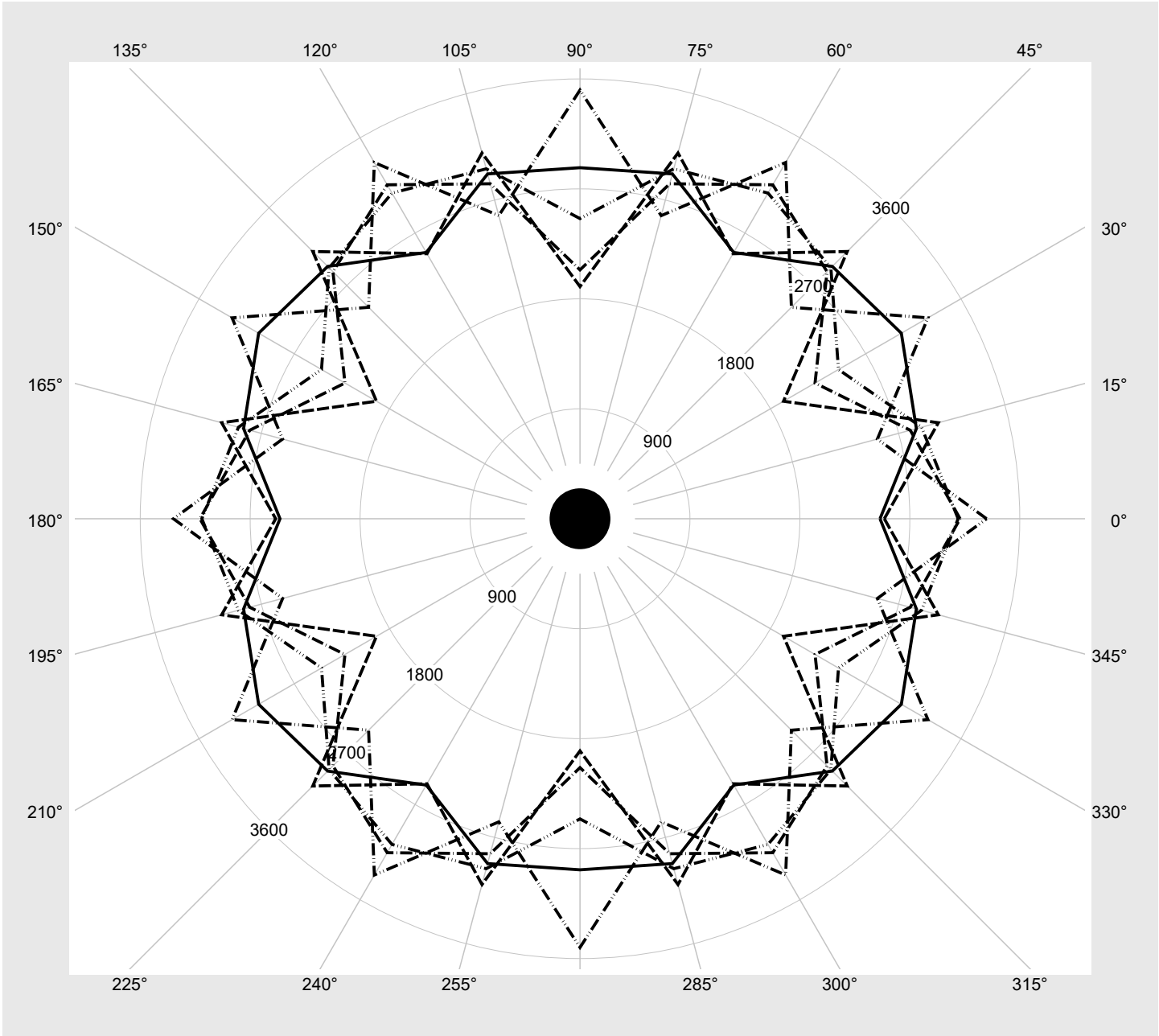
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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

siteco



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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	28.5
95	241	252	3748	27.1
90	227	250	3540	25.5
85	214	248	3347	24.1
80	201	245	3151	22.6
75	188	243	2954	21.2
70	175	240	2758	19.7
65	162	238	2559	18.4
60	149	234	2359	17.0
55	137	231	2174	15.7
50	124	228	1972	14.3
45	111	224	1769	12.8
40	99	219	1581	11.5
35	86	214	1376	10.1
30	74	209	1186	8.9
25	61	202	979	7.5
20	49	194	787	6.2
15	37	183	594	4.8
10	25	169	401	3.4
5	12	142	189	1.8
3	8	127	124	1.3