

Photometric test report

Family
Silica® 21 round S

Order number: 51MF33DAEMSA
EAN: 4069025808097

LP number
60076_7

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 3820 lm
Power consumption = 26.8 W
Luminous efficacy = 142.5 lm/W

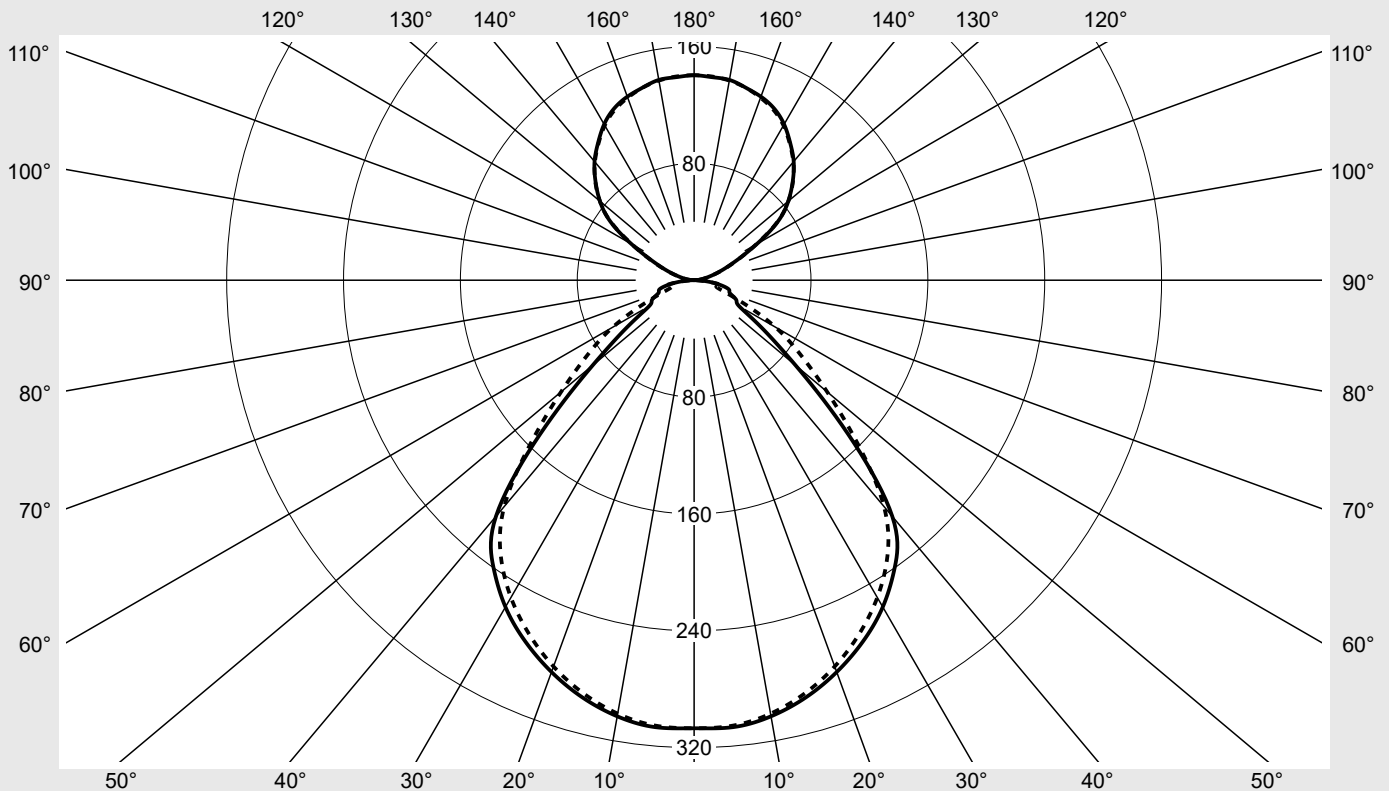
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 307 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=63 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 63.1%
 ϕ_o 36.9%

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°	306.7	306.7	306.7	306.7	306.7	306.7	306.7	1.8	1.8
5°	307.1	305.5	303.8	304.8	306.3	306.1	306.1	14.6	16.4
10°	303.1	301.5	299.5	300.3	301.6	301.3	301.3	28.7	45.1
15°	295.7	294.0	291.8	292.4	293.3	292.9	292.8	41.6	86.7
20°	285.4	283.8	281.3	281.4	282.0	281.5	281.4	52.9	139.6
25°	273.1	271.2	268.2	268.0	268.6	267.8	267.3	62.3	201.9
30°	258.3	256.0	252.5	252.3	253.1	251.8	250.8	69.4	271.3
35°	239.6	237.4	233.1	233.4	233.9	232.6	230.7	73.6	345.0
40°	211.1	211.1	207.3	207.0	203.6	204.6	202.2	72.8	417.8
45°	149.2	158.8	161.1	158.0	144.2	157.7	158.5	60.3	478.1
50°	90.7	104.0	121.5	104.0	90.1	102.4	118.8	43.9	522.0
55°	55.9	63.9	90.5	63.6	55.4	62.2	89.0	30.5	552.5
60°	35.6	43.1	63.5	43.6	35.5	42.6	64.3	22.0	574.6
65°	31.8	36.9	39.3	37.8	32.6	37.8	37.2	18.1	592.7
70°	26.1	31.8	20.1	32.4	26.2	32.5	19.9	14.3	606.9
75°	24.7	22.2	17.6	22.7	25.0	22.5	16.1	11.5	618.4
80°	17.7	13.4	17.5	13.0	17.9	13.7	18.7	8.4	626.9
85°	8.3	7.7	6.5	7.8	8.2	7.9	6.6	4.1	631.0
90°	0.8	1.0	0.6	0.9	0.6	0.7	0.4	0.4	631.4
95°	3.2	3.1	3.1	3.0	3.1	3.1	3.1	1.7	633.1
100°	7.2	7.0	7.0	7.1	7.2	7.2	7.2	3.8	636.9
105°	12.7	12.5	12.7	12.8	12.9	12.8	12.9	6.8	643.7
110°	20.8	20.7	21.0	21.2	21.2	21.2	21.2	10.8	654.6
115°	32.1	32.1	32.3	32.5	32.7	32.8	32.7	16.1	670.7
120°	49.6	49.4	49.2	49.2	49.1	49.1	49.0	23.4	694.0
125°	70.0	69.8	69.8	69.7	70.1	70.1	69.7	31.4	725.4
130°	84.2	84.0	84.2	84.5	85.0	84.6	84.2	35.4	760.9
135°	95.4	95.5	95.8	96.4	96.4	95.9	95.7	37.2	798.0
140°	106.1	105.8	105.9	106.2	106.1	105.8	105.6	37.3	835.4
145°	114.7	114.8	115.0	114.9	114.6	114.5	114.2	36.1	871.4
150°	123.2	123.2	123.2	122.9	122.6	122.6	122.3	33.7	905.1
155°	129.7	129.3	129.0	128.7	128.6	128.6	128.6	29.9	935.0
160°	133.7	133.4	133.1	132.8	133.1	132.7	132.9	24.9	959.9
165°	136.5	136.5	136.4	136.5	136.4	136.1	136.4	19.3	979.3
170°	139.2	139.2	139.1	138.8	138.4	138.6	138.7	13.2	992.5
175°	139.5	139.6	139.6	139.8	139.8	139.9	140.0	6.7	999.2
180°	140.3	140.3	140.3	140.3	140.3	140.3	140.3	0.8	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	14.4	15.4	15.2	16.2	17.3	14.2	15.2	15.0	16.0	17.1
	3H	15.0	15.9	15.8	16.7	17.8	14.8	15.7	15.7	16.6	17.6
	4H	15.4	16.3	16.3	17.1	18.2	15.1	16.0	16.0	16.8	17.9
	6H	15.9	16.6	16.8	17.5	18.6	15.6	16.3	16.4	17.2	18.3
	8H	16.0	16.7	16.9	17.6	18.7	15.7	16.4	16.6	17.3	18.4
	12H	16.1	16.8	17.0	17.7	18.8	15.9	16.5	16.7	17.4	18.5
4H	2H	14.5	15.3	15.4	16.2	17.3	14.4	15.2	15.2	16.1	17.1
	3H	15.3	16.0	16.2	16.8	17.9	15.3	16.0	16.2	16.8	17.9
	4H	15.8	16.4	16.7	17.3	18.4	15.8	16.4	16.7	17.3	18.4
	6H	16.4	16.9	17.3	17.8	19.0	16.3	16.9	17.2	17.8	18.9
	8H	16.5	17.0	17.5	17.9	19.1	16.5	17.0	17.4	17.9	19.1
	12H	16.8	17.2	17.7	18.1	19.3	16.7	17.1	17.7	18.1	19.2
8H	4H	15.9	16.4	16.9	17.3	18.5	15.9	16.4	16.8	17.3	18.5
	6H	16.7	17.0	17.6	18.0	19.2	16.6	17.0	17.6	18.0	19.2
	8H	17.0	17.4	18.0	18.3	19.5	17.0	17.4	18.0	18.3	19.5
	12H	17.3	17.6	18.3	18.6	19.8	17.3	17.6	18.3	18.6	19.8
12H	4H	16.0	16.4	16.9	17.3	18.5	16.0	16.4	16.9	17.3	18.5
	6H	16.8	17.1	17.7	18.1	19.3	16.8	17.1	17.7	18.0	19.2
	8H	17.2	17.5	18.1	18.4	19.6	17.2	17.5	18.1	18.4	19.6

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°	6890.1	7333.3	7439.1	7296.1	6658.5	7281.9	7316.1
50°	4605.6	5283.7	6169.0	5280.6	4575.1	5199.9	6035.4
55°	3181.2	3634.4	5150.2	3618.5	3152.0	3539.9	5064.8
60°	2324.9	2816.8	4147.1	2847.7	2317.8	2779.8	4196.0
65°	2454.9	2849.8	3036.4	2920.0	2516.2	2921.1	2872.5
70°	2490.1	3035.8	1923.1	3092.6	2504.1	3098.5	1899.6
75°	3110.3	2798.1	2221.1	2859.1	3155.2	2837.8	2036.3
80°	3327.2	2519.4	3287.7	2446.5	3365.7	2567.7	3507.7
85°	3094.1	2893.4	2442.8	2903.1	3077.3	2964.1	2455.9

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Luminance values in cd/m²

γ 65°

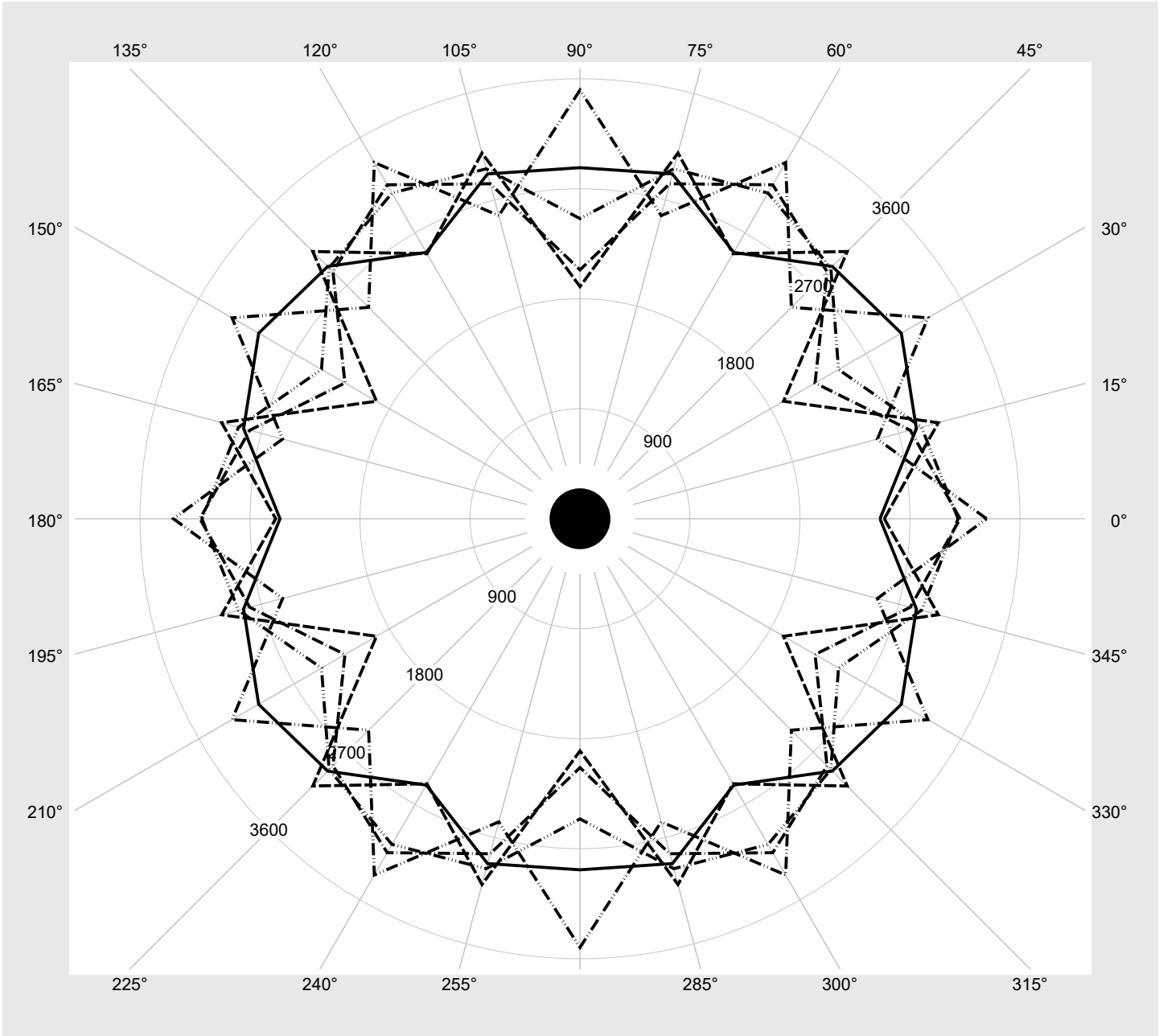
γ 70°

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	3820	26.8
95	241	252	3633	25.4
90	227	250	3432	24.0
85	214	248	3243	22.6
80	201	245	3052	21.3
75	188	243	2862	19.9
70	175	240	2671	18.6
65	162	238	2478	17.3
60	150	235	2299	16.1
55	137	231	2104	14.8
50	124	228	1909	13.4
45	112	224	1726	12.2
40	99	219	1529	10.9
35	86	214	1331	9.6
30	74	209	1147	8.4
25	62	202	962	7.2
20	49	194	761	5.8
15	37	183	574	4.5
10	25	169	387	3.3
5	13	145	198	1.9
3	8	127	119	1.3