

Photometric test report

Family
Silica® 21 round S

Order number: 51MF33DA3MSA
EAN: 4069025807915

LP number
60076_4

serial
documentation
20.05.2026



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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 3820 lm
Power consumption = 25.5 W
Luminous efficacy = 149.8 lm/W

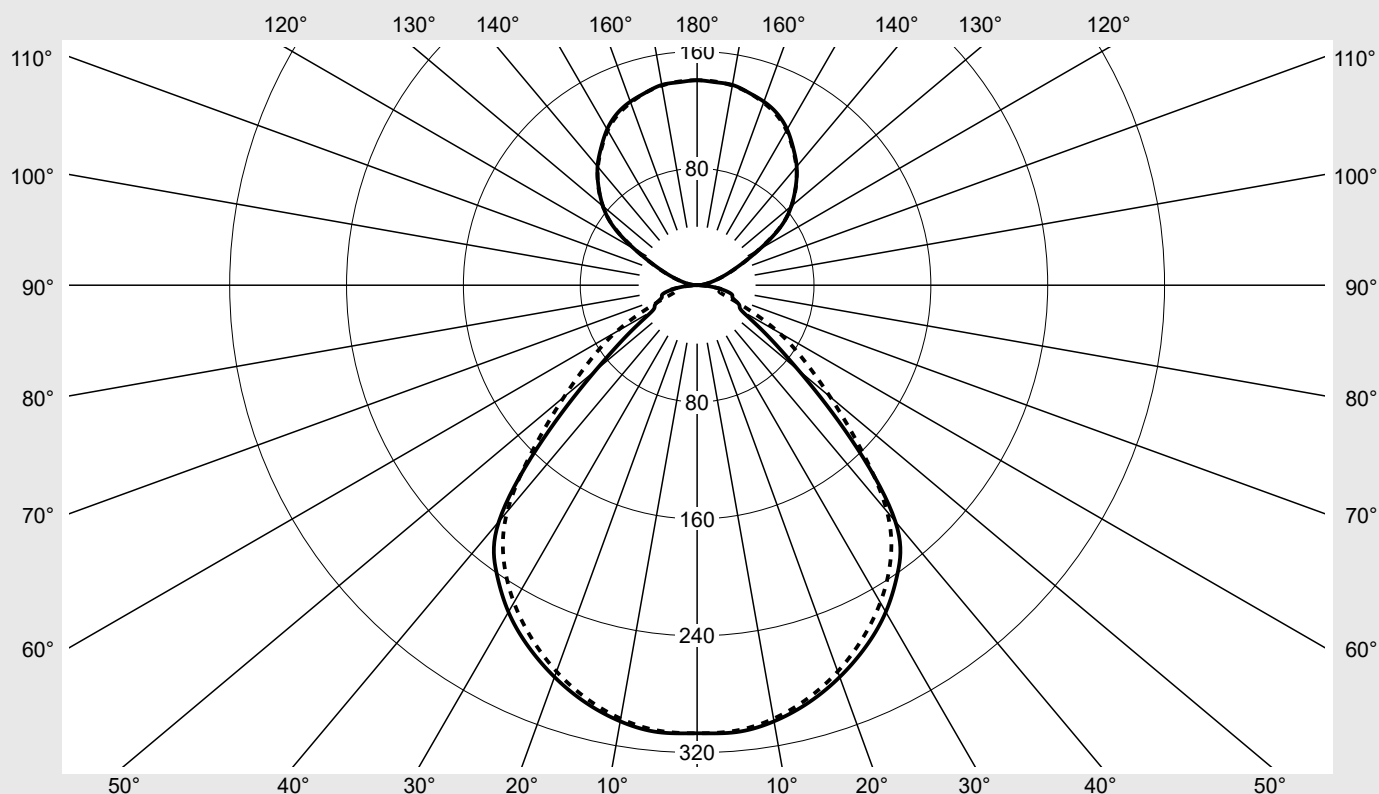
siteco

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	γ	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					
45° 50° 55° 60°	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° 70° 75° 80°	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°	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°

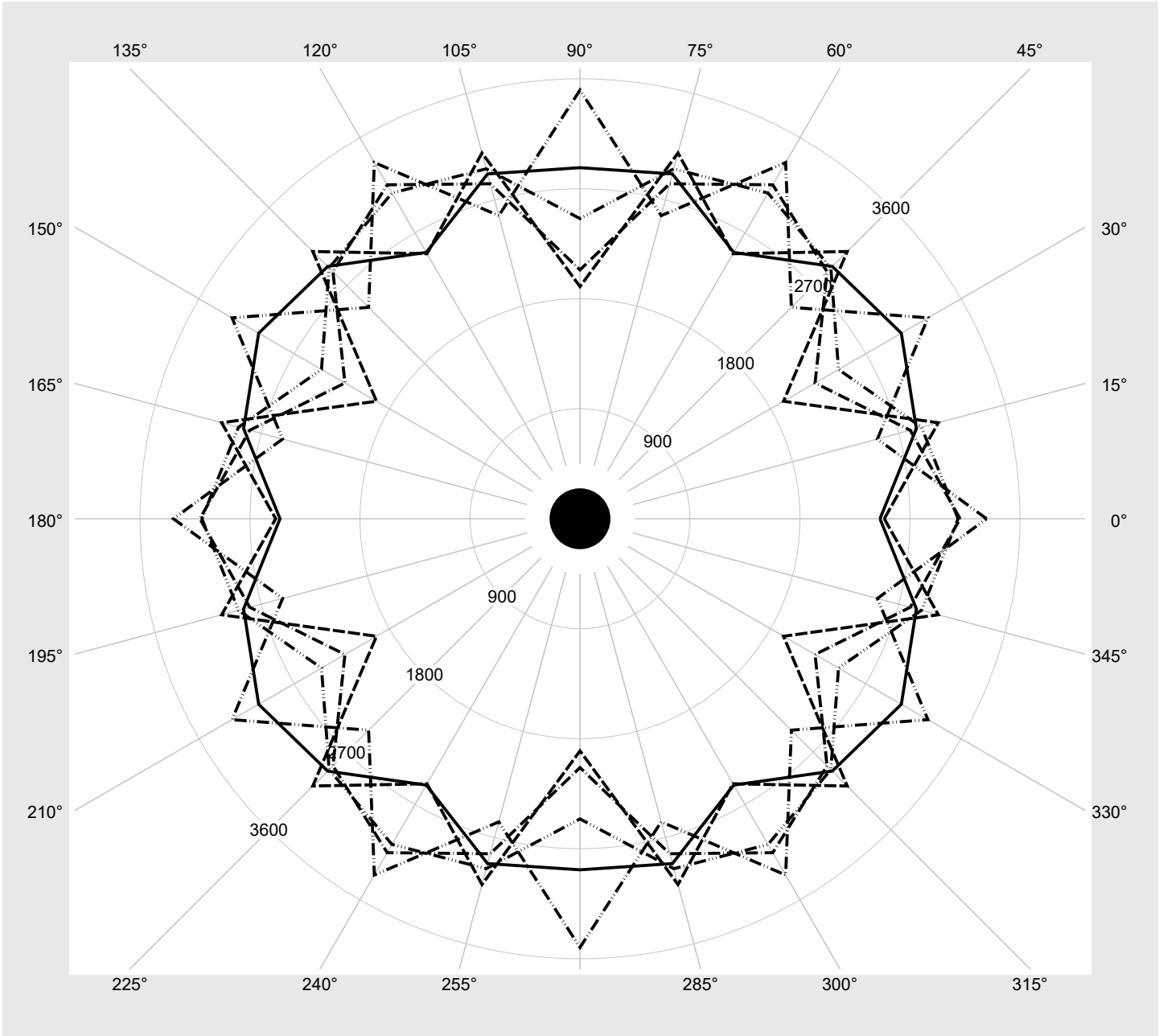
γ 70°

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	25.5
95	241	252	3629	24.3
90	228	250	3438	23.0
85	215	248	3247	21.7
80	202	246	3053	20.5
75	189	243	2861	19.2
70	177	241	2681	18.0
65	164	238	2486	16.7
60	151	235	2291	15.5
55	138	232	2095	14.3
50	126	228	1913	13.1
45	113	224	1715	11.9
40	101	220	1532	10.7
35	88	215	1333	9.4
30	76	210	1149	8.3
25	63	203	949	7.0
20	51	195	763	5.8
15	39	185	577	4.6
10	26	171	375	3.3
5	14	148	187	1.9
2	8	127	93	1.2