

Photometric test report

Family
Silica® 21 round S

Order number: 51MF33DADMSA
EAN: 4069025808035

LP number
60076_6

serial
documentation
20.05.2026



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

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 3820 lm
Power consumption = 27.0 W
Luminous efficacy = 141.5 lm/W

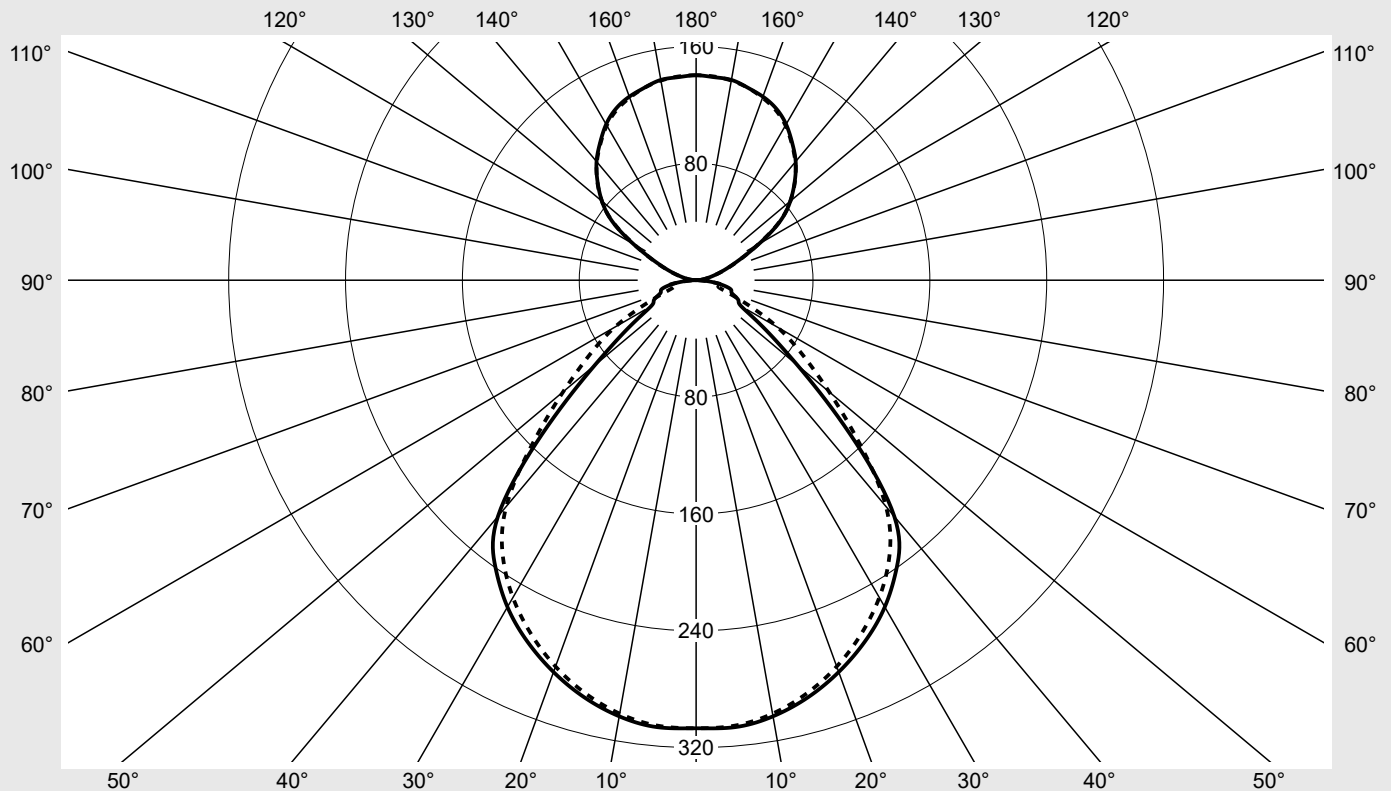
siteco

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
		siteco

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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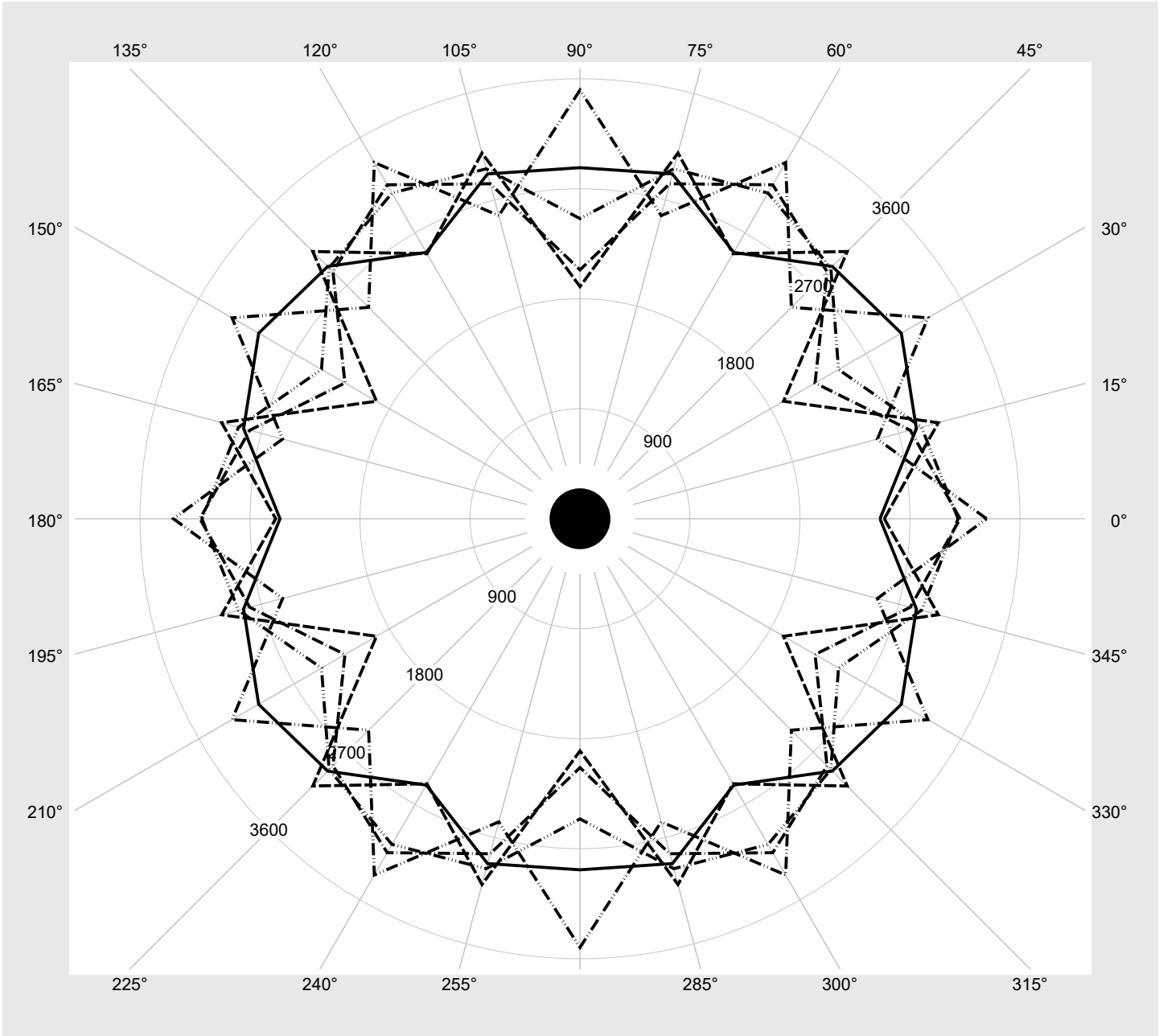
Family Silica® 21 round S	Order number: 51MF33DADMSA EAN: 4069025808035	LP number 60076_6
UGR-Table	Standard room	siteco

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°		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	3820	27.0
95	241	252	3634	25.7
90	227	250	3432	24.2
85	214	248	3243	22.8
80	201	245	3053	21.5
75	188	243	2862	20.1
70	175	240	2671	18.8
65	162	238	2478	17.4
60	150	235	2299	16.2
55	137	231	2105	14.9
50	124	228	1909	13.5
45	111	224	1712	12.2
40	99	219	1529	11.0
35	86	214	1331	9.6
30	74	209	1146	8.4
25	62	202	962	7.2
20	49	194	761	5.9
15	37	183	574	4.6
10	25	169	386	3.3
5	13	145	198	1.9
3	8	127	119	1.3