

Photometric test report

Family
Silica® 21 round S

Order number: 51ME33DA3MSA
EAN: 4069025800503

LP number
60076_2

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 = 27.8 W
Luminous efficacy = 137.4 lm/W

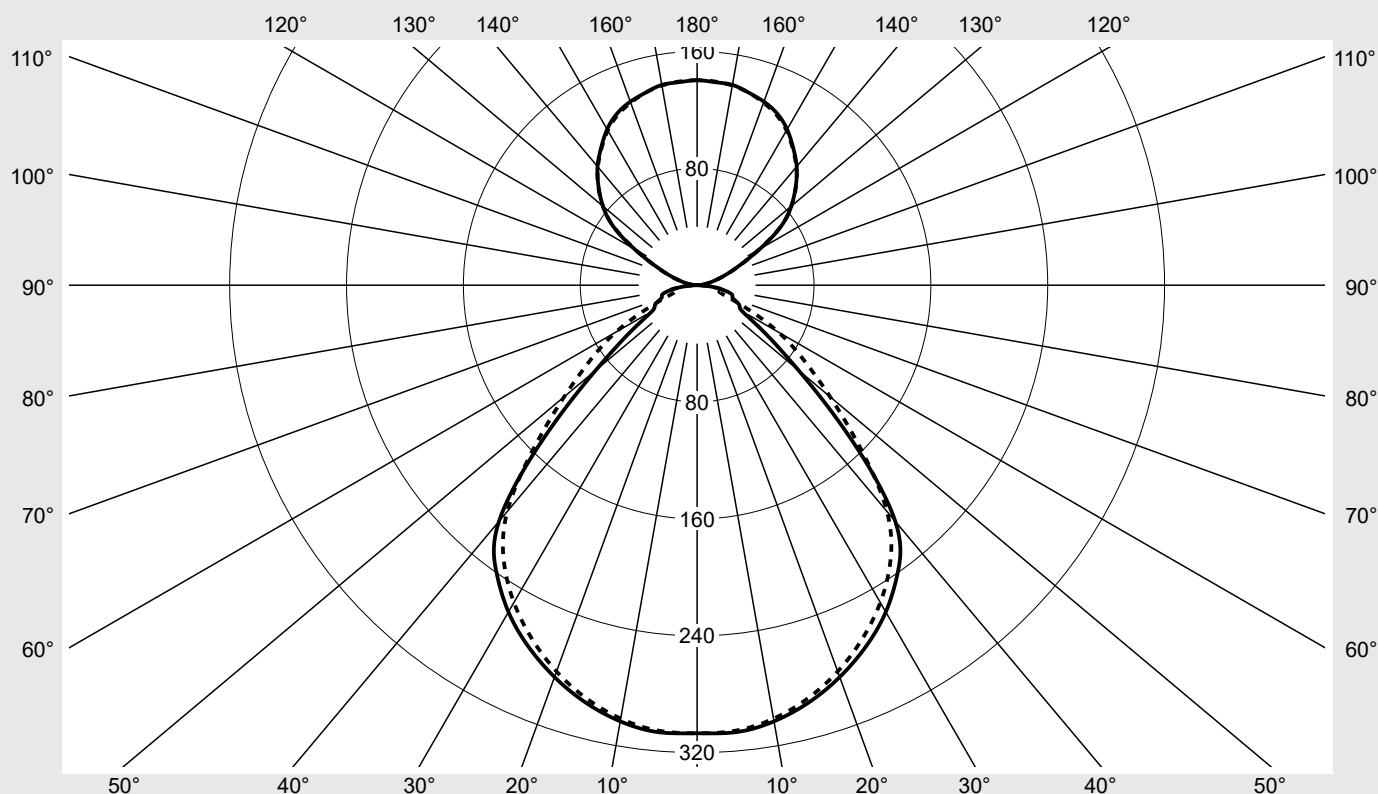
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Luminous intensity in cd/klm

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°
		Luminance in cd/m²					
γ							
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°

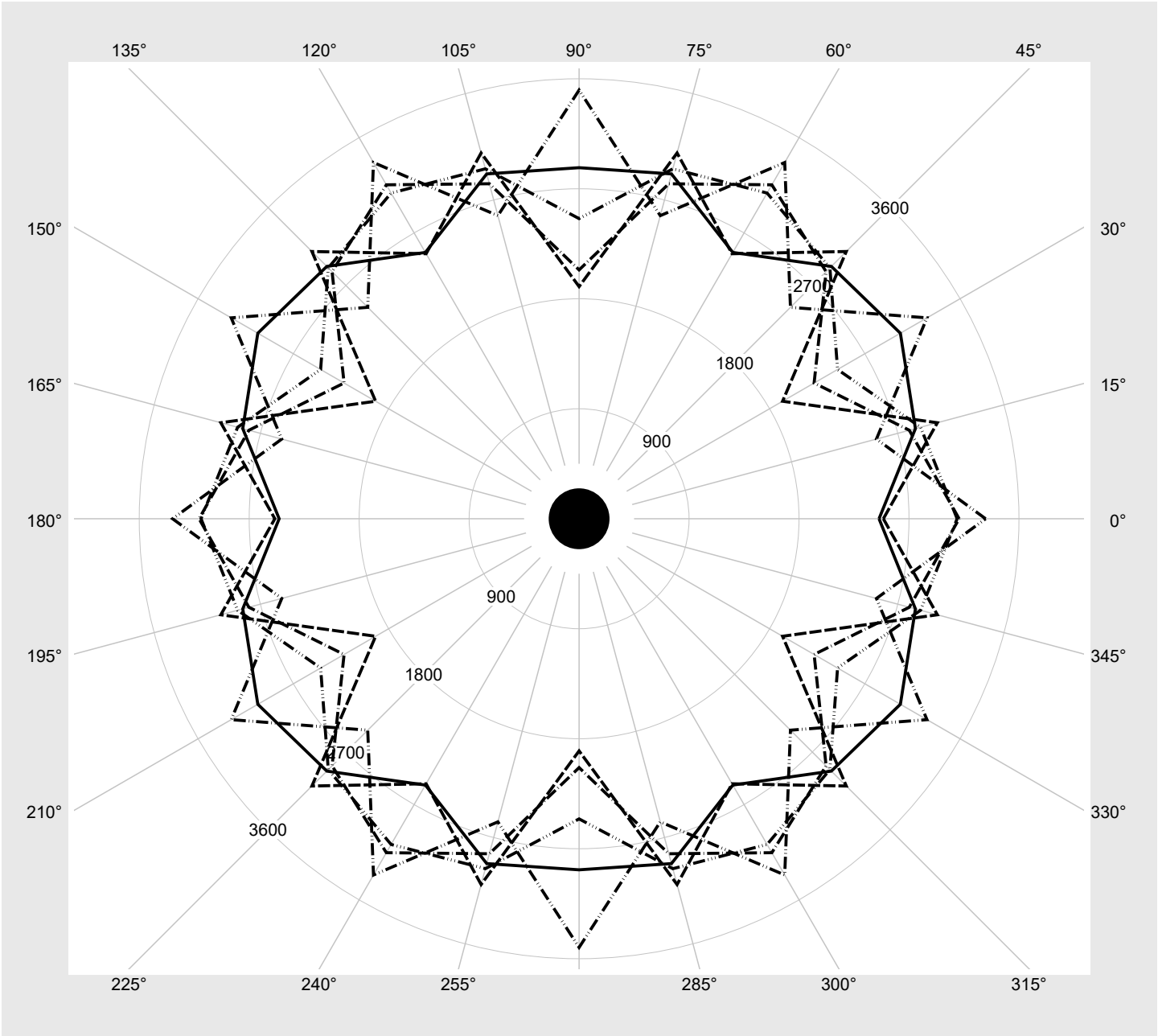
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	3820	27.8
95	241	252	3628	26.4
90	228	250	3436	25.1
85	215	248	3243	23.7
80	202	246	3049	22.3
75	190	243	2870	21.0
70	177	241	2675	19.7
65	164	238	2480	18.3
60	152	235	2299	17.0
55	139	232	2103	15.7
50	126	228	1906	14.3
45	114	225	1723	13.1
40	101	220	1525	11.7
35	89	216	1342	10.5
30	76	210	1143	9.0
25	64	204	959	7.7
20	51	195	760	6.4
15	39	185	575	5.1
10	27	172	389	3.8
5	14	148	188	2.2
2	8	127	94	1.4