

Photometric test report

Family
Silica® 21 round M

Order number: 51MF33DB4MSA
EAN: 4069025808219

LP number
60082_5

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 8100 lm
Power consumption = 46.2 W
Luminous efficacy = 175.3 lm/W

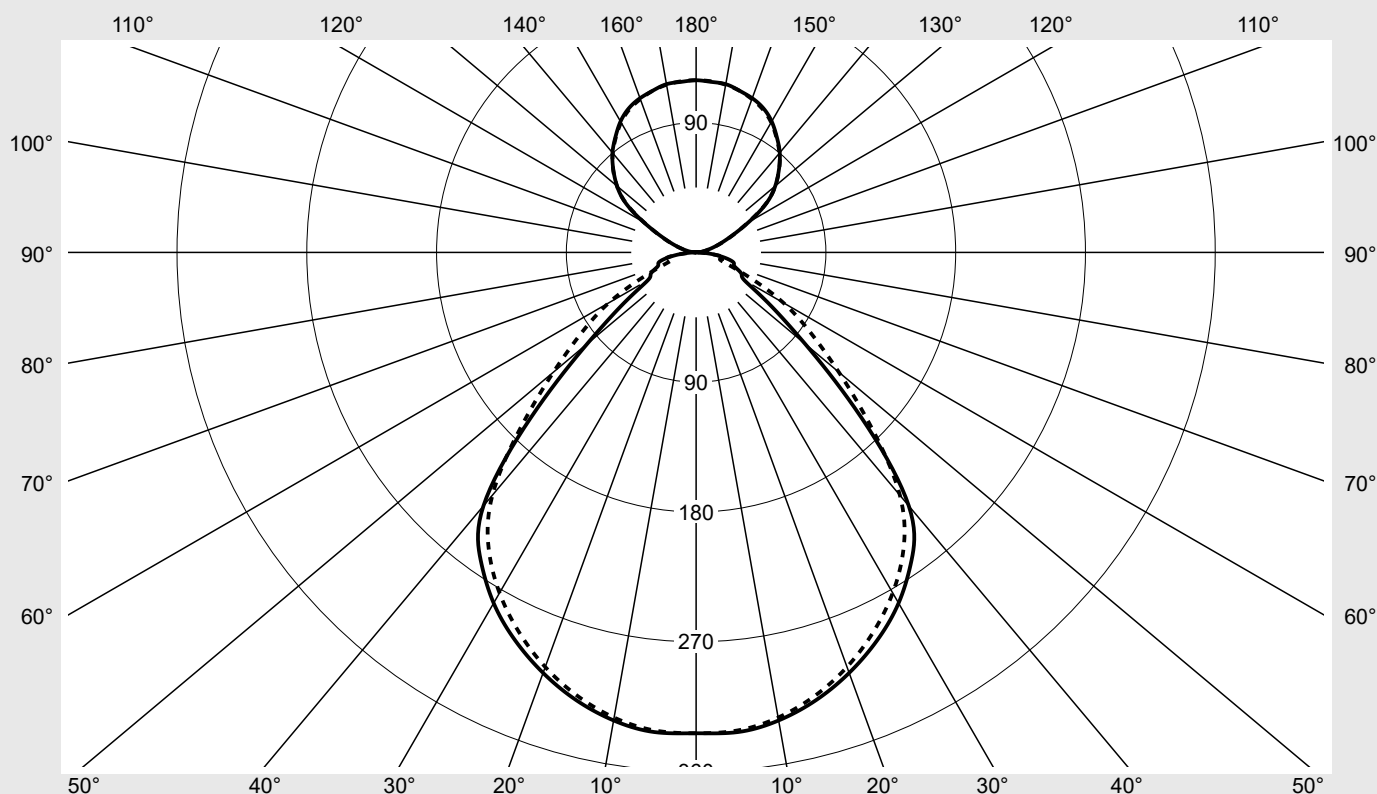
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 334 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=69 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 68.6%
 ϕ_o 31.4%

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°	333.5	333.5	333.5	333.5	333.5	333.5	333.5	2.0	2.0
5°	333.9	332.1	330.2	331.4	333.0	332.8	332.7	15.9	17.9
10°	329.6	327.7	325.6	326.5	327.9	327.6	327.5	31.2	49.0
15°	321.4	319.7	317.3	317.9	318.8	318.5	318.3	45.2	94.2
20°	310.3	308.5	305.8	306.0	306.6	306.1	305.9	57.5	151.7
25°	296.9	294.8	291.5	291.4	292.0	291.2	290.6	67.7	219.5
30°	280.8	278.3	274.5	274.3	275.2	273.8	272.7	75.5	295.0
35°	260.5	258.1	253.4	253.7	254.3	252.8	250.8	80.1	375.1
40°	229.5	229.5	225.3	225.1	221.4	222.4	219.8	79.2	454.2
45°	162.3	172.7	175.2	171.8	156.8	171.5	172.3	65.6	519.8
50°	98.6	113.1	132.1	113.0	97.9	111.3	129.2	47.7	567.5
55°	60.8	69.4	98.4	69.1	60.2	67.6	96.7	33.2	600.7
60°	38.7	46.9	69.1	47.4	38.6	46.3	69.9	23.9	624.6
65°	34.6	40.1	42.7	41.1	35.4	41.1	40.4	19.7	644.3
70°	28.4	34.6	21.9	35.2	28.5	35.3	21.6	15.5	659.8
75°	26.8	24.1	19.1	24.6	27.2	24.5	17.6	12.5	672.3
80°	19.2	14.6	19.0	14.1	19.5	14.9	20.3	9.2	681.5
85°	9.0	8.4	7.1	8.4	8.9	8.6	7.1	4.5	686.0
90°	0.7	0.8	0.5	0.7	0.5	0.6	0.3	0.3	686.3
95°	2.7	2.6	2.6	2.6	2.7	2.6	2.6	1.4	687.8
100°	6.1	6.0	6.0	6.1	6.1	6.1	6.1	3.3	691.1
105°	10.8	10.7	10.8	10.9	11.0	10.9	11.0	5.8	696.8
110°	17.7	17.6	17.9	18.0	18.1	18.0	18.1	9.2	706.0
115°	27.3	27.3	27.5	27.6	27.8	27.9	27.8	13.7	719.8
120°	42.2	42.0	41.8	41.9	41.8	41.8	41.7	19.9	739.6
125°	59.6	59.4	59.4	59.3	59.7	59.7	59.3	26.7	766.3
130°	71.6	71.5	71.6	71.9	72.3	72.0	71.7	30.2	796.5
135°	81.2	81.2	81.6	82.0	82.0	81.6	81.4	31.6	828.1
140°	90.2	90.0	90.1	90.4	90.3	90.0	89.9	31.8	859.9
145°	97.6	97.7	97.9	97.8	97.5	97.4	97.1	30.7	890.6
150°	104.8	104.8	104.8	104.6	104.3	104.3	104.1	28.7	919.3
155°	110.3	110.0	109.8	109.5	109.4	109.4	109.4	25.4	944.7
160°	113.8	113.5	113.3	113.0	113.3	112.9	113.1	21.2	965.9
165°	116.1	116.1	116.1	116.2	116.1	115.8	116.1	16.5	982.4
170°	118.5	118.5	118.4	118.1	117.7	117.9	118.1	11.2	993.6
175°	118.7	118.8	118.8	119.0	119.0	119.1	119.1	5.7	999.3
180°	119.4	119.4	119.4	119.4	119.4	119.4	119.4	0.7	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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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)			
2H	x									
	y									
	2H	14.8	15.9	15.6	16.6	17.6	14.6	15.7	15.4	16.5
	3H	15.4	16.3	16.2	17.1	18.1	15.3	16.2	16.1	17.0
	4H	15.9	16.7	16.7	17.5	18.5	15.6	16.4	16.4	17.2
	6H	16.3	17.1	17.1	17.9	18.9	16.0	16.8	16.8	17.6
4H	8H	16.4	17.2	17.3	18.0	19.0	16.2	16.9	17.0	17.7
	12H	16.6	17.3	17.4	18.1	19.1	16.3	17.0	17.1	17.8
	2H	14.9	15.8	15.7	16.6	17.6	14.8	15.7	15.6	16.5
	3H	15.7	16.4	16.5	17.3	18.3	15.7	16.4	16.5	17.3
	4H	16.3	16.9	17.1	17.7	18.8	16.2	16.9	17.1	17.7
	6H	16.8	17.4	17.7	18.2	19.3	16.8	17.3	17.6	18.2
8H	8H	17.0	17.5	17.9	18.4	19.5	17.0	17.5	17.9	18.4
	12H	17.2	17.7	18.1	18.6	19.7	17.2	17.6	18.1	18.5
	4H	16.4	16.9	17.3	17.8	18.8	16.4	16.9	17.2	17.7
	6H	17.1	17.5	18.0	18.4	19.5	17.1	17.5	18.0	18.4
	8H	17.5	17.8	18.4	18.7	19.8	17.5	17.9	18.4	18.8
	12H	17.8	18.1	18.7	19.0	20.1	17.8	18.1	18.7	19.0
12H	4H	16.4	16.9	17.3	17.8	18.9	16.4	16.9	17.3	17.8
	6H	17.2	17.6	18.1	18.5	19.6	17.2	17.6	18.1	18.5
	8H	17.6	17.9	18.5	18.8	19.9	17.6	18.0	18.5	18.9
	2H	14.8	15.9	15.6	16.6	17.6	14.6	15.7	15.4	16.5
	3H	15.4	16.3	16.2	17.1	18.1	15.3	16.2	16.1	17.0
	4H	15.9	16.7	16.7	17.5	18.5	15.6	16.4	16.4	17.2

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 586	
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°	6891.6	7334.9	7440.7	7297.7	6660.0	7283.4	7317.7
50°	4606.6	5284.9	6170.4	5281.7	4576.1	5201.0	6036.7
55°	3181.9	3635.2	5151.4	3619.3	3152.7	3540.7	5065.9
60°	2325.4	2817.3	4148.0	2848.3	2318.3	2780.4	4196.9
65°	2455.4	2850.5	3037.1	2920.5	2516.7	2921.7	2873.1
70°	2490.7	3036.4	1923.5	3093.1	2504.6	3099.1	1900.1
75°	3111.0	2798.7	2221.4	2859.8	3155.9	2838.4	2036.7
80°	3328.0	2519.9	3288.4	2447.1	3366.4	2568.4	3508.4
85°	3095.1	2894.2	2443.2	2903.9	3077.9	2964.9	2456.6

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Luminance values in cd/m²

γ 65°

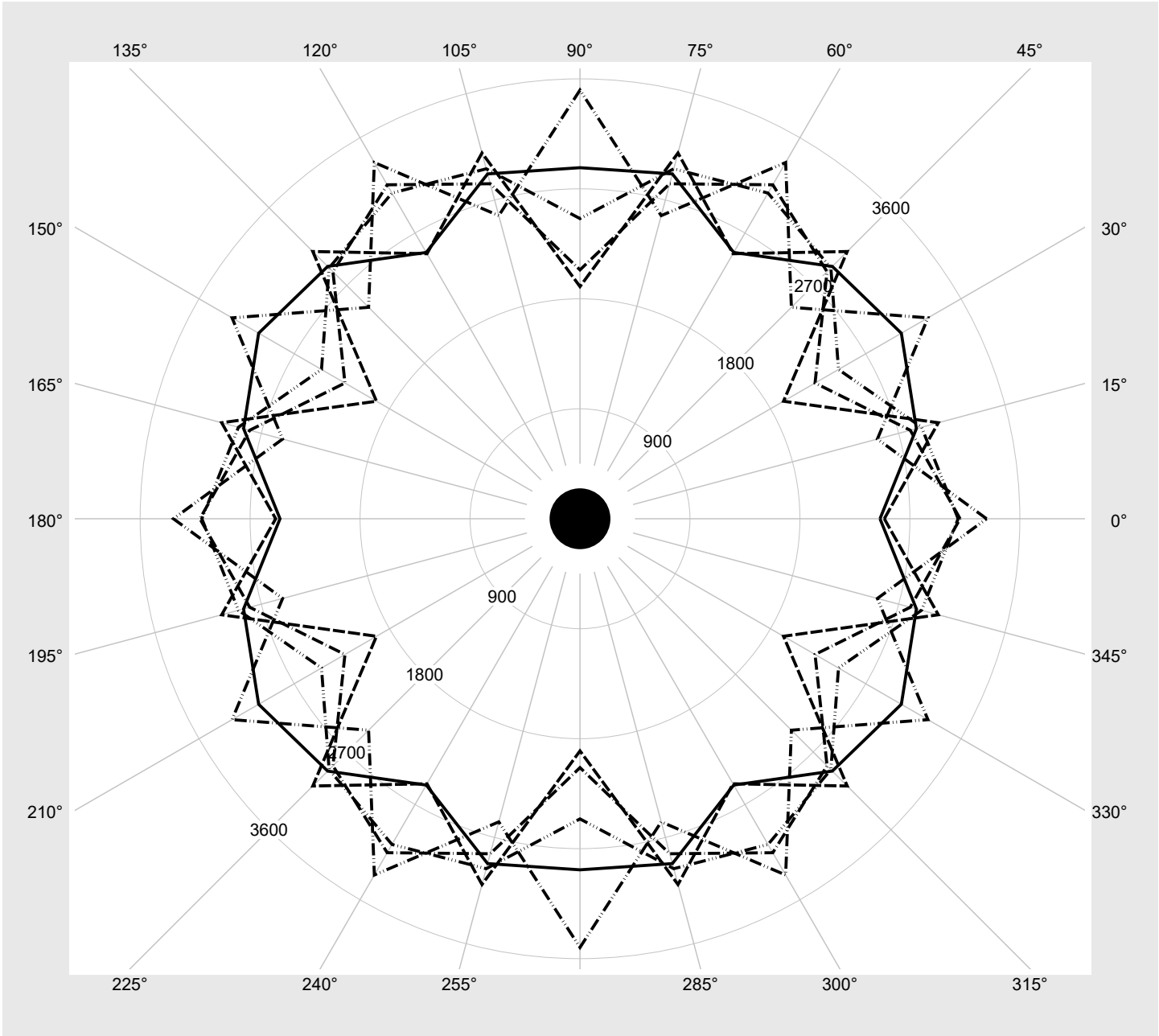
γ 70°

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	8100	46.2
95	241	252	7691	43.8
90	228	250	7282	41.5
85	215	248	6870	39.3
80	203	246	6491	37.2
75	190	243	6078	35.0
70	177	241	5663	32.7
65	165	238	5279	30.6
60	152	235	4862	28.3
55	139	232	4444	26.0
50	127	229	4056	23.8
45	114	225	3635	21.4
40	102	221	3245	19.4
35	89	216	2821	17.0
30	77	210	2429	14.9
25	65	204	2035	12.8
20	52	196	1608	10.6
15	40	186	1211	8.4
10	28	173	815	5.8
5	16	153	416	2.9
1	7	122	117	1.0