

Photometric test report

Family
Silica® 21 round M

Order number: 51MF33DBEMSA
EAN: 4069025808332

LP number
60082_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 = 8100 lm
Power consumption = 50.6 W
Luminous efficacy = 160.1 lm/W

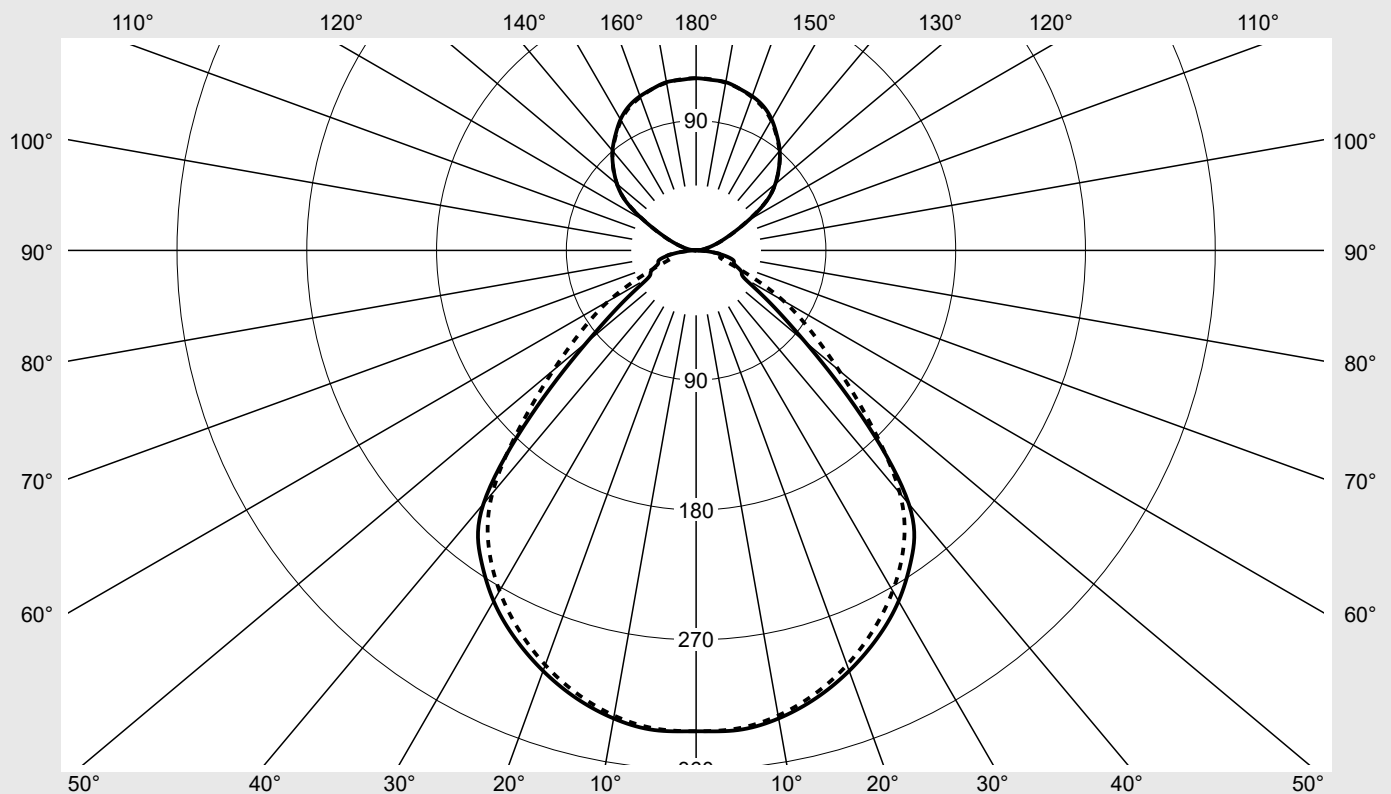
siteco

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	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	14.8	15.9	15.6	16.6	17.6	14.6	15.7	15.4	16.5	17.4
	3H	15.4	16.3	16.2	17.1	18.1	15.3	16.2	16.1	17.0	18.0
	4H	15.9	16.7	16.7	17.5	18.5	15.6	16.4	16.4	17.2	18.2
	6H	16.3	17.1	17.1	17.9	18.9	16.0	16.8	16.8	17.6	18.6
	8H	16.4	17.2	17.3	18.0	19.0	16.2	16.9	17.0	17.7	18.8
	12H	16.6	17.3	17.4	18.1	19.1	16.3	17.0	17.1	17.8	18.9
4H	2H	14.9	15.8	15.7	16.6	17.6	14.8	15.7	15.6	16.5	17.5
	3H	15.7	16.4	16.5	17.3	18.3	15.7	16.4	16.5	17.3	18.3
	4H	16.3	16.9	17.1	17.7	18.8	16.2	16.9	17.1	17.7	18.7
	6H	16.8	17.4	17.7	18.2	19.3	16.8	17.3	17.6	18.2	19.3
	8H	17.0	17.5	17.9	18.4	19.5	17.0	17.5	17.9	18.4	19.4
	12H	17.2	17.7	18.1	18.6	19.7	17.2	17.6	18.1	18.5	19.6
8H	4H	16.4	16.9	17.3	17.8	18.8	16.4	16.9	17.2	17.7	18.8
	6H	17.1	17.5	18.0	18.4	19.5	17.1	17.5	18.0	18.4	19.5
	8H	17.5	17.8	18.4	18.7	19.8	17.5	17.9	18.4	18.8	19.9
	12H	17.8	18.1	18.7	19.0	20.1	17.8	18.1	18.7	19.0	20.1
12H	4H	16.4	16.9	17.3	17.8	18.9	16.4	16.9	17.3	17.8	18.8
	6H	17.2	17.6	18.1	18.5	19.6	17.2	17.6	18.1	18.5	19.6
	8H	17.6	17.9	18.5	18.8	19.9	17.6	18.0	18.5	18.9	20.0

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°

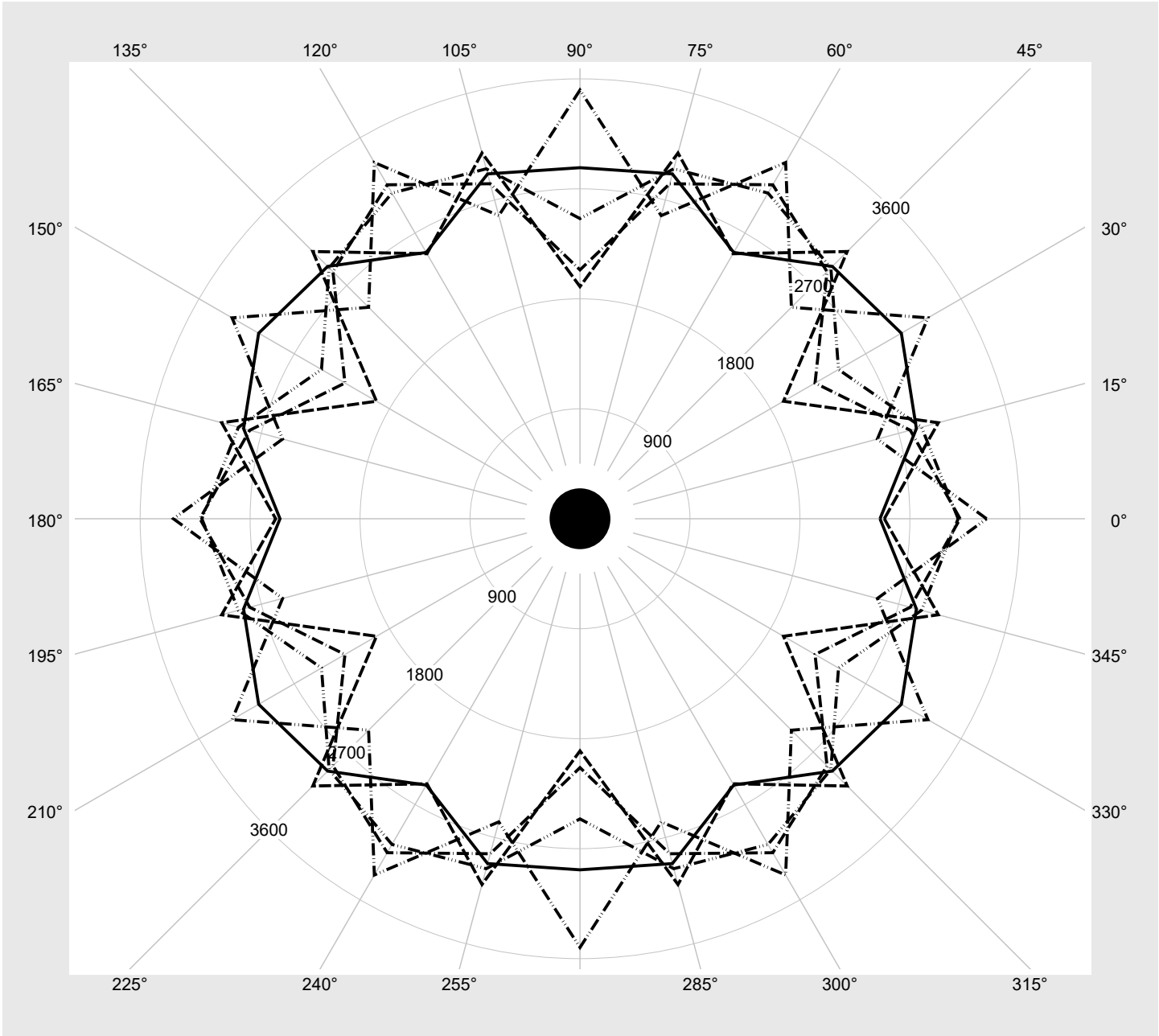
γ 70°

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	50.6
95	241	252	7702	47.9
90	228	250	7301	45.3
85	215	248	6898	42.7
80	202	246	6494	40.2
75	189	243	6089	37.7
70	176	241	5682	35.3
65	163	238	5273	32.8
60	150	235	4861	30.3
55	137	231	4448	27.8
50	125	228	4064	25.4
45	112	224	3648	22.8
40	99	219	3229	20.3
35	87	215	2841	17.9
30	74	209	2420	15.4
25	62	202	2028	13.1
20	50	194	1636	10.9
15	37	183	1208	8.4
10	25	169	813	5.5
5	13	145	415	2.4
3	7	122	216	1.1