

Photometric test report

Family
Silica® 21 round M

Order number: 51MF23DBDMSA
EAN: 4069025806833

LP number
60072_48

serial
documentation
20.05.2026



Version surface-mounted luminaire, housing, silver,
microprismatic optics, direct wide distribution
with ceiling illumination, UGR≤19

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 5720 lm
Power consumption = 36.8 W
Luminous efficacy = 155.4 lm/W

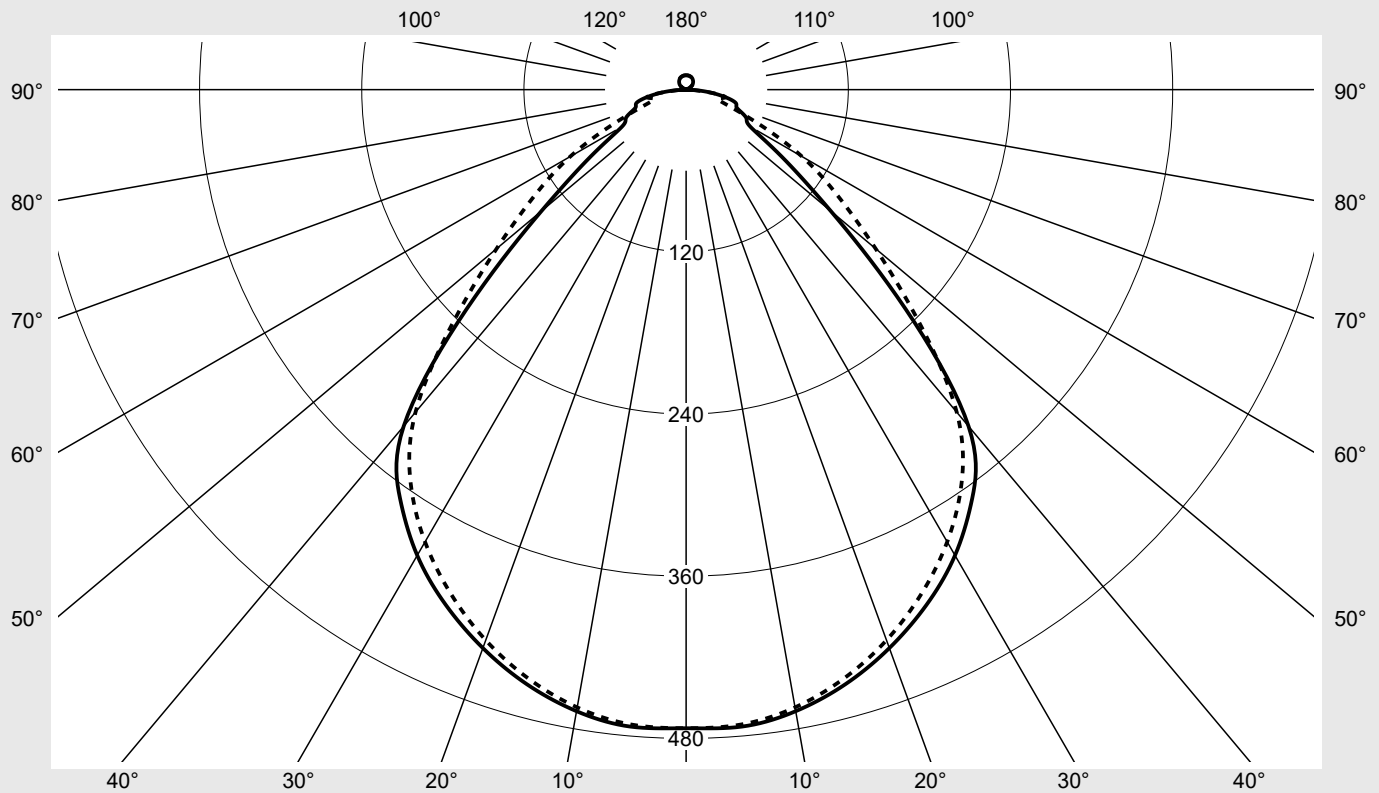
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 473 cd/klm



Classifications

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

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 97.2%
 ϕ_o 2.8%

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°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	2.8	2.8
5°	473.1	470.6	467.9	469.6	471.8	471.5	471.4	22.5	25.3
10°	467.0	464.4	461.3	462.6	464.5	464.1	464.1	44.1	69.4
15°	455.4	452.9	449.6	450.4	451.7	451.2	451.0	64.1	133.5
20°	439.7	437.1	433.3	433.5	434.4	433.7	433.5	81.5	215.0
25°	420.7	417.7	413.1	412.9	413.8	412.5	411.7	96.0	311.0
30°	397.9	394.4	388.9	388.6	389.9	387.9	386.4	107.0	418.0
35°	369.1	365.7	359.1	359.5	360.4	358.3	355.3	113.4	531.4
40°	325.1	325.2	319.3	318.9	313.7	315.1	311.5	112.2	643.6
45°	229.9	244.7	248.2	243.4	222.2	243.0	244.1	92.9	736.5
50°	139.7	160.3	187.1	160.2	138.8	157.7	183.1	67.6	804.1
55°	86.1	98.4	139.4	97.9	85.3	95.8	137.1	47.0	851.1
60°	54.9	66.5	97.8	67.2	54.7	65.6	99.0	33.9	885.0
65°	49.0	56.8	60.6	58.2	50.2	58.3	57.3	27.9	913.0
70°	40.2	49.0	31.0	49.9	40.4	50.0	30.7	22.0	934.9
75°	38.0	34.2	27.1	34.9	38.5	34.7	24.9	17.7	952.6
80°	27.3	20.6	26.9	20.0	27.6	21.0	28.7	13.0	965.6
85°	12.7	11.9	10.0	11.9	12.7	12.2	10.1	6.4	972.0
90°	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	972.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	972.2
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	972.5
105°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	973.0
110°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	973.8
115°	2.4	2.4	2.5	2.5	2.5	2.5	2.5	1.2	975.0
120°	3.8	3.7	3.7	3.7	3.7	3.7	3.7	1.8	976.8
125°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	2.4	979.2
130°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	2.7	981.9
135°	7.2	7.2	7.3	7.3	7.3	7.3	7.3	2.8	984.7
140°	8.0	8.0	8.0	8.1	8.1	8.0	8.0	2.8	987.5
145°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	2.7	990.2
150°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	2.6	992.8
155°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	2.3	995.1
160°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	1.9	997.0
165°	10.4	10.4	10.3	10.4	10.4	10.3	10.4	1.5	998.4
170°	10.6	10.6	10.6	10.5	10.5	10.5	10.5	1.0	999.4
175°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	0.5	999.9
180°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	0.1	1000.0

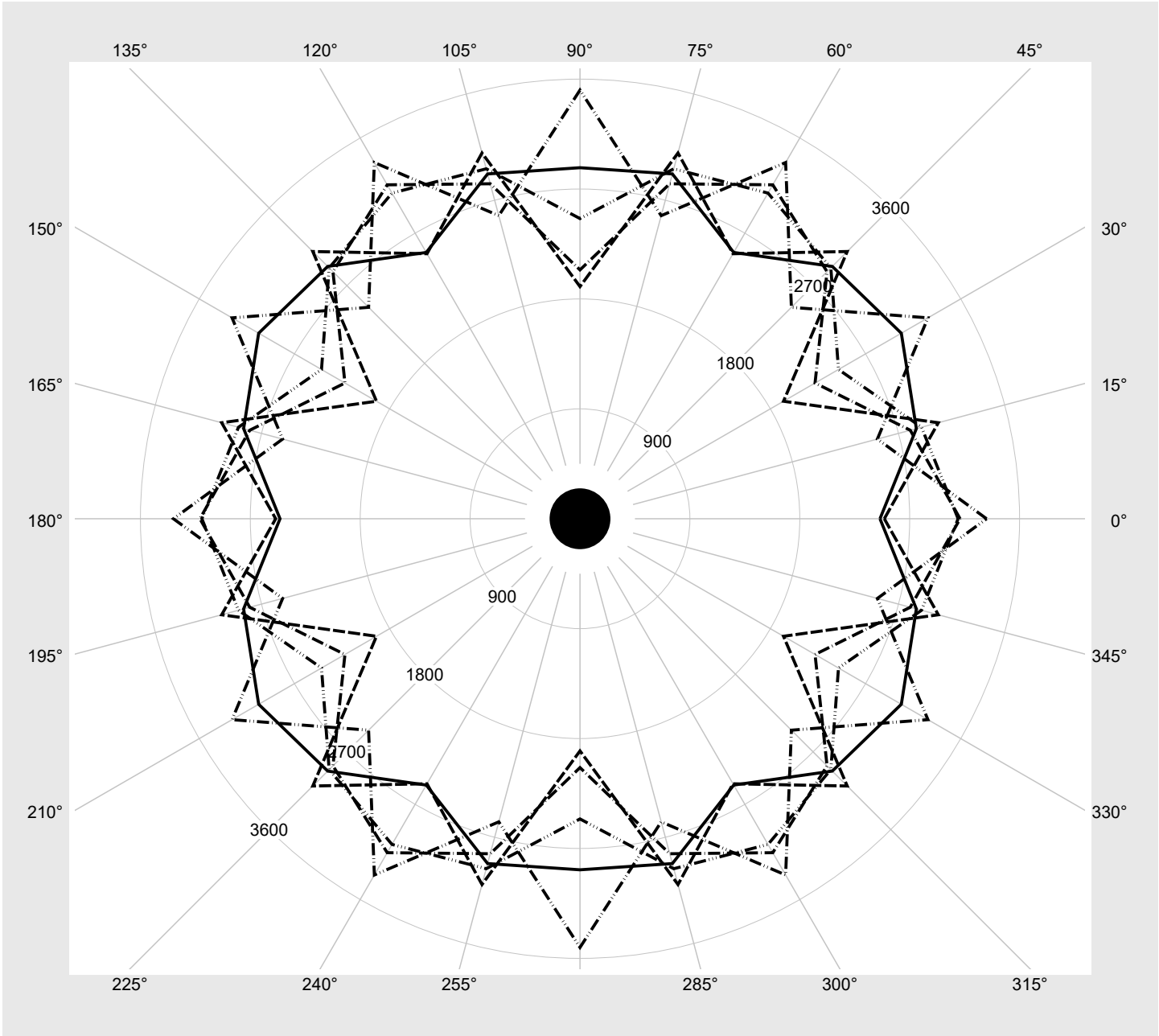
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UGR-Table			Standard room							siteco	
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	16.9	18.4	17.3	18.7	19.1	16.7	18.2	17.1	18.5	18.9
	3H	17.6	19.0	18.0	19.3	19.7	17.5	18.8	17.9	19.2	19.5
	4H	18.1	19.4	18.5	19.7	20.1	17.8	19.1	18.2	19.4	19.8
	6H	18.6	19.7	19.0	20.1	20.5	18.3	19.4	18.7	19.8	20.2
	8H	18.8	19.9	19.2	20.3	20.7	18.6	19.6	19.0	20.0	20.4
	12H	19.0	20.0	19.4	20.4	20.8	18.7	19.7	19.1	20.1	20.5
4H	2H	17.2	18.4	17.6	18.8	19.2	17.0	18.3	17.4	18.6	19.0
	3H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5	19.9
	4H	18.6	19.5	19.0	19.9	20.4	18.5	19.5	19.0	19.9	20.3
	6H	19.2	20.0	19.6	20.4	20.9	19.1	20.0	19.6	20.4	20.8
	8H	19.4	20.2	19.9	20.6	21.1	19.4	20.2	19.9	20.6	21.1
	12H	19.7	20.3	20.2	20.8	21.3	19.6	20.3	20.1	20.7	21.2
8H	4H	18.8	19.6	19.3	20.0	20.5	18.8	19.6	19.3	20.0	20.5
	6H	19.6	20.2	20.1	20.7	21.2	19.6	20.2	20.1	20.7	21.2
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	12H	20.3	20.7	20.8	21.2	21.8	20.3	20.7	20.8	21.2	21.8
12H	4H	18.9	19.5	19.4	20.0	20.5	18.9	19.5	19.4	20.0	20.5
	6H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
	8H	20.1	20.5	20.6	21.0	21.6	20.1	20.6	20.6	21.1	21.6

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°	6895.6	7339.1	7445.0	7301.9	6663.8	7287.6	7321.9
50°	4609.3	5287.9	6173.9	5284.7	4578.7	5204.0	6040.2
55°	3183.7	3637.2	5154.3	3621.4	3154.5	3542.7	5068.8
60°	2326.7	2818.9	4150.4	2849.9	2319.6	2781.9	4199.3
65°	2456.8	2852.0	3038.8	2922.2	2518.2	2923.4	2874.8
70°	2492.2	3038.2	1924.6	3095.0	2506.1	3100.9	1901.2
75°	3112.8	2800.4	2222.8	2861.5	3157.7	2840.0	2037.9
80°	3329.9	2521.4	3290.4	2448.6	3368.4	2569.7	3510.5
85°	3096.8	2895.8	2444.6	2905.2	3079.5	2966.8	2458.2

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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

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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	5720	36.8
95	241	252	5437	35.0
90	228	250	5155	33.0
85	215	248	4870	31.2
80	202	246	4586	29.4
75	189	243	4299	27.4
70	176	241	4011	25.6
65	163	238	3722	23.9
60	150	235	3431	22.1
55	137	231	3139	20.2
50	125	228	2868	18.6
45	112	224	2574	16.8
40	99	219	2279	14.9
35	87	215	2005	13.4
30	74	209	1706	11.7
25	62	202	1430	10.1
20	50	194	1153	8.6
15	37	183	853	6.5
10	25	169	573	4.7
5	13	145	293	3.1
2	6	117	129	2.1