

Photometric test report

Family
Silica® 21 round M

Order number: 51MF23DB3MSA
EAN: 4069025806710

LP number
60072_46

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 ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 5720 lm
Power consumption = 35.0 W
Luminous efficacy = 163.4 lm/W

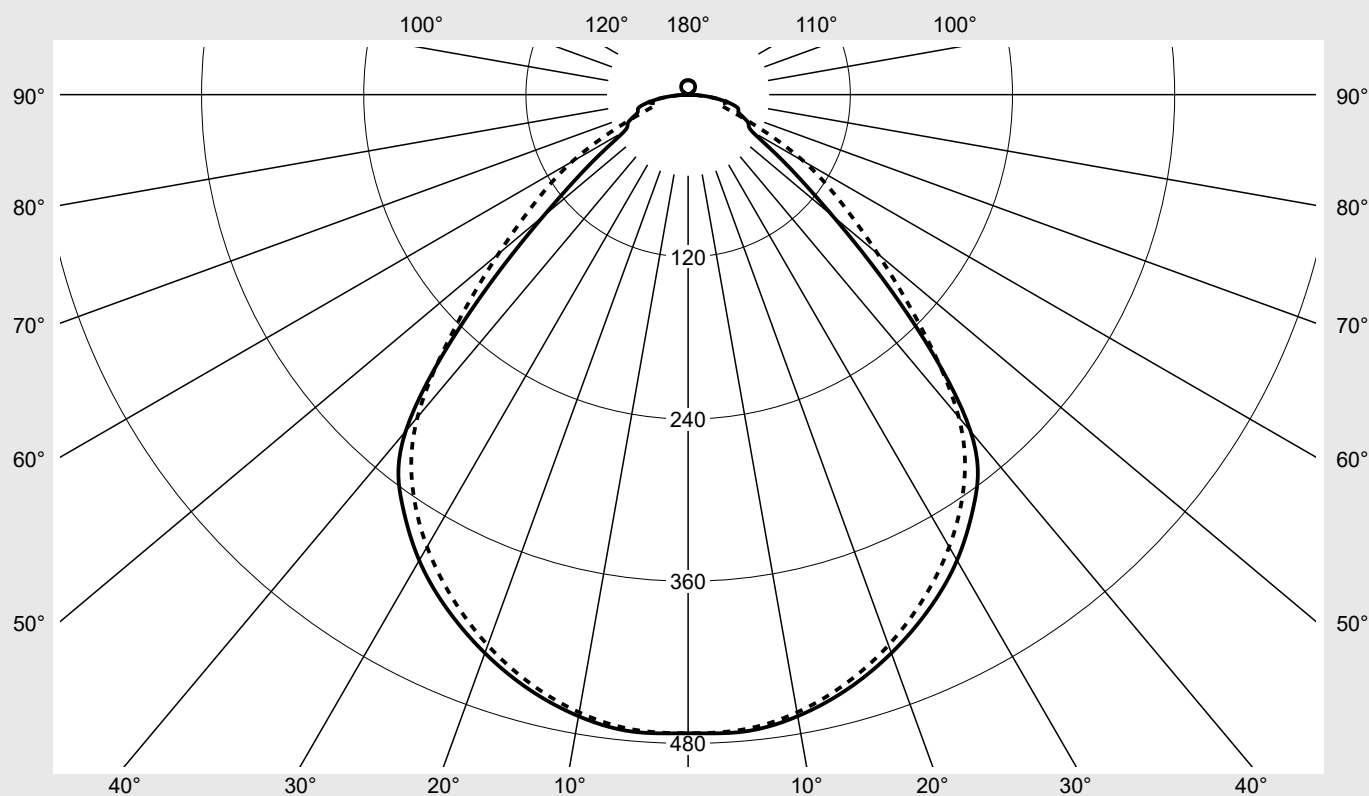
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Luminous intensity in cd/klm

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
	3H	17.6	19.0	18.0	19.3	19.7	17.5	18.8	17.9	19.2
	4H	18.1	19.4	18.5	19.7	20.1	17.8	19.1	18.2	19.4
	6H	18.6	19.7	19.0	20.1	20.5	18.3	19.4	18.7	19.8
	8H	18.8	19.9	19.2	20.3	20.7	18.6	19.6	19.0	20.0
	12H	19.0	20.0	19.4	20.4	20.8	18.7	19.7	19.1	20.1
4H	2H	17.2	18.4	17.6	18.8	19.2	17.0	18.3	17.4	18.6
	3H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5
	4H	18.6	19.5	19.0	19.9	20.4	18.5	19.5	19.0	19.9
	6H	19.2	20.0	19.6	20.4	20.9	19.1	20.0	19.6	20.4
	8H	19.4	20.2	19.9	20.6	21.1	19.4	20.2	19.9	20.6
	12H	19.7	20.3	20.2	20.8	21.3	19.6	20.3	20.1	20.7
8H	4H	18.8	19.6	19.3	20.0	20.5	18.8	19.6	19.3	20.0
	6H	19.6	20.2	20.1	20.7	21.2	19.6	20.2	20.1	20.7
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0
	12H	20.3	20.7	20.8	21.2	21.8	20.3	20.7	20.8	21.2
12H	4H	18.9	19.5	19.4	20.0	20.5	18.9	19.5	19.4	20.0
	6H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7
	8H	20.1	20.5	20.6	21.0	21.6	20.1	20.6	20.6	21.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 586	
C-planes		15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
	γ	0° 180°	Luminance in cd/m²				
45°		6895.6	7339.1	7445.0	7301.9	6663.8	7287.6
50°		4609.3	5287.9	6173.9	5284.7	4578.7	5204.0
55°		3183.7	3637.2	5154.3	3621.4	3154.5	3542.7
60°		2326.7	2818.9	4150.4	2849.9	2319.6	2781.9
65°		2456.8	2852.0	3038.8	2922.2	2518.2	2923.4
70°		2492.2	3038.2	1924.6	3095.0	2506.1	3100.9
75°		3112.8	2800.4	2222.8	2861.5	3157.7	2840.0
80°		3329.9	2521.4	3290.4	2448.6	3368.4	2569.7
85°		3096.8	2895.8	2444.6	2905.2	3079.5	2966.8

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Luminance values in cd/m²

γ 65°

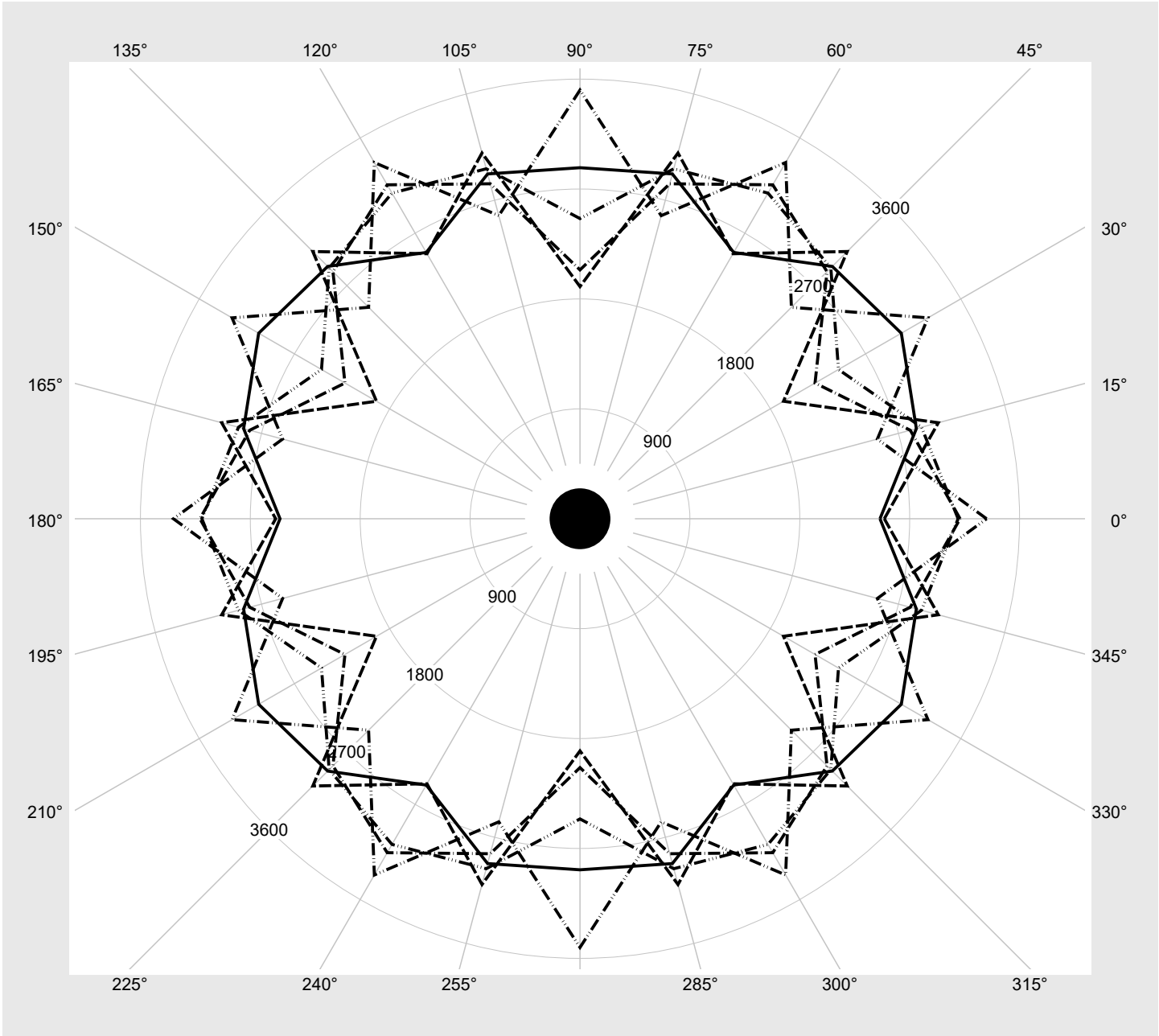
γ 70°

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	5720	35.0
95	241	252	5433	33.2
90	228	250	5145	31.4
85	215	248	4856	29.7
80	202	246	4566	27.9
75	190	243	4299	26.4
70	177	241	4007	24.6
65	164	238	3715	22.9
60	151	235	3421	21.2
55	139	232	3149	19.6
50	126	228	2854	17.8
45	114	225	2581	16.3
40	101	220	2283	14.7
35	89	216	2009	13.2
30	76	210	1710	11.5
25	64	204	1433	10.0
20	51	195	1133	8.4
15	39	185	855	6.6
10	27	172	577	4.9
5	15	150	297	3.3
2	6	117	87	2.1