

Photometric test report

Family
Silica® 21 round M

Order number: 51MF23DBEMBA
EAN: 4069025806871

LP number
60072_31

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 5720 lm
Power consumption = 37.3 W
Luminous efficacy = 153.4 lm/W

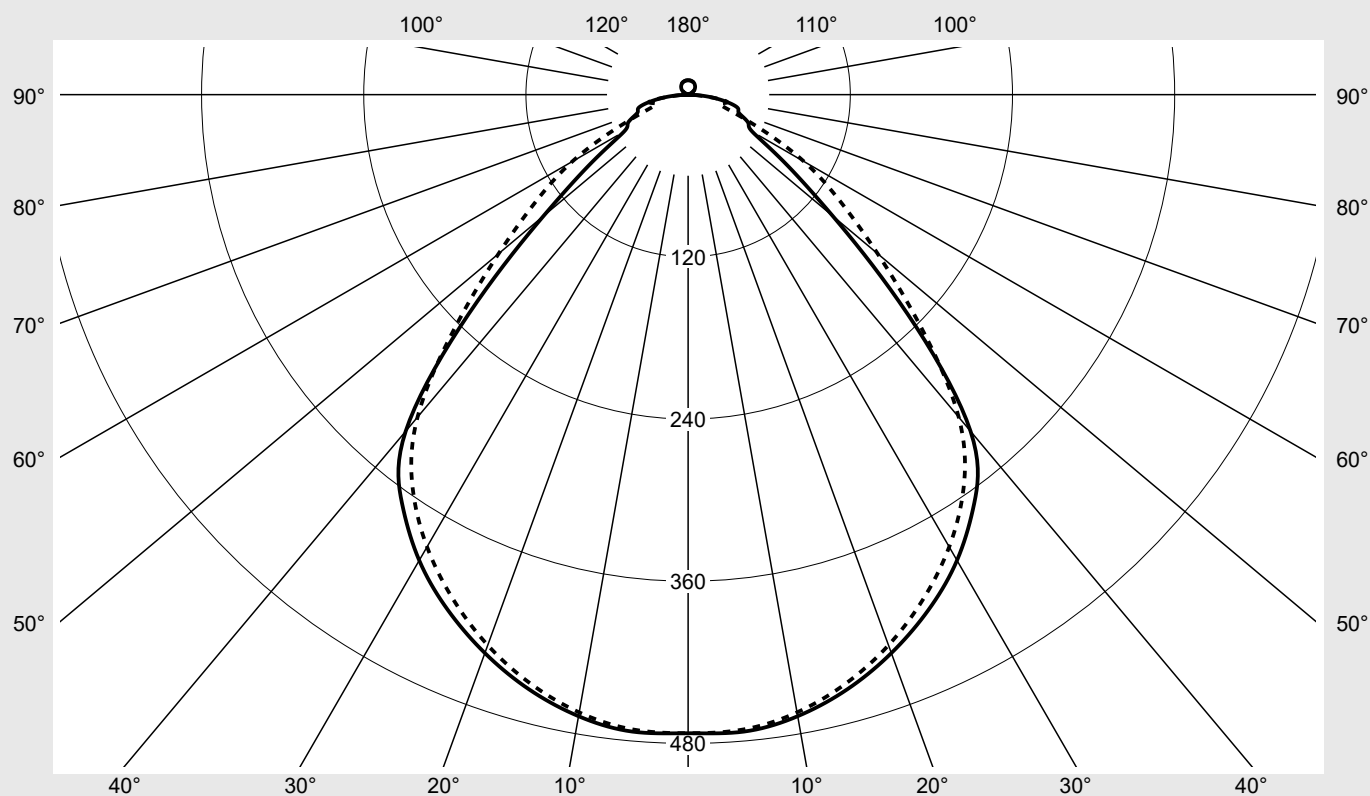
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Luminous intensity in cd/klm

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	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		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	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°

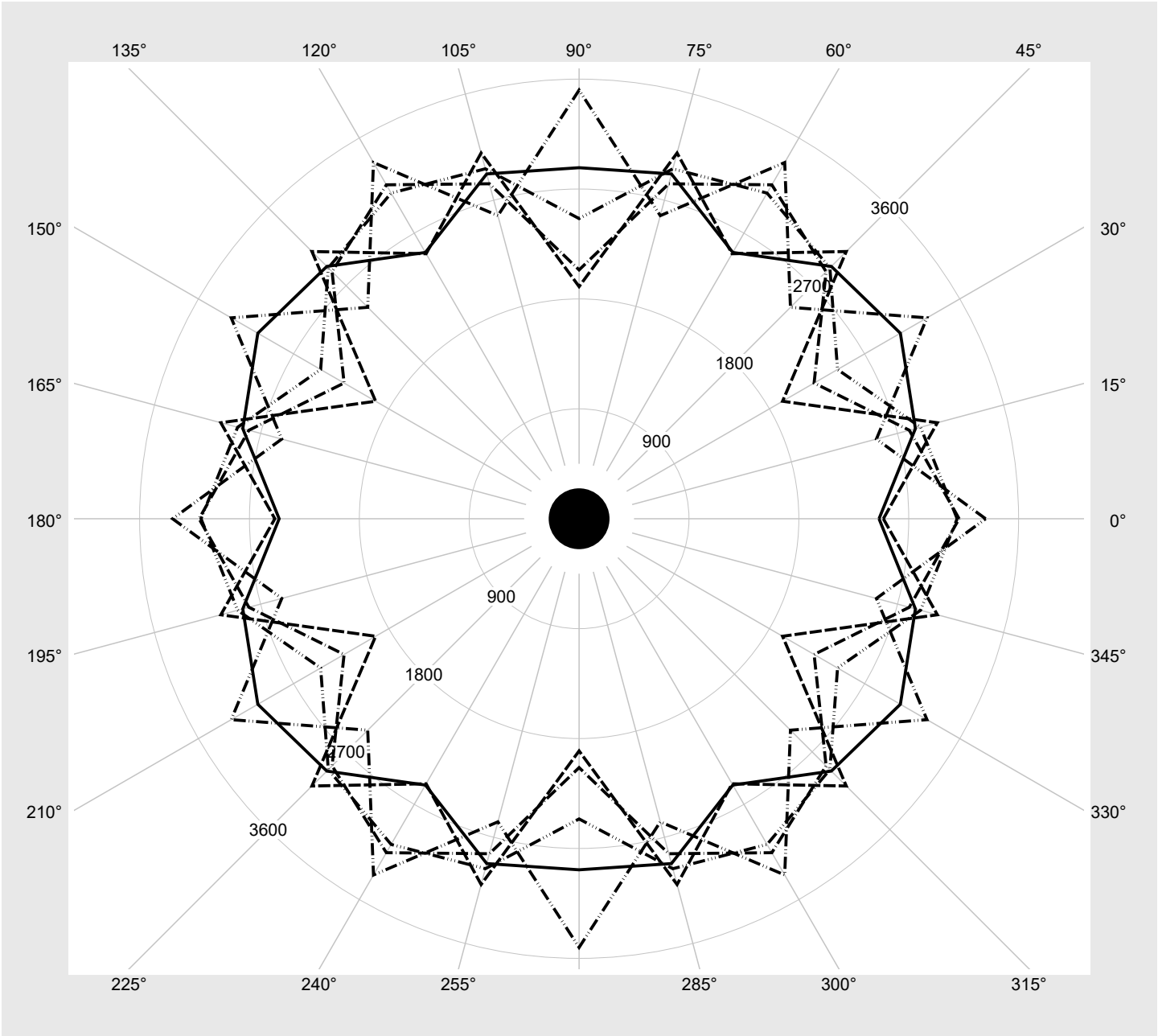
γ 70°

γ 75°

γ 80°

γ 85°

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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	37.3
95	241	252	5438	35.5
90	228	250	5155	33.5
85	215	248	4871	31.7
80	202	246	4586	29.8
75	189	243	4299	27.8
70	176	241	4012	26.1
65	163	238	3724	24.1
60	150	235	3432	22.3
55	137	231	3140	20.5
50	125	228	2870	18.8
45	112	224	2576	17.0
40	99	219	2280	15.2
35	87	215	2006	13.6
30	74	209	1708	11.9
25	62	202	1432	10.3
20	50	194	1154	8.7
15	37	183	853	6.6
10	25	169	574	4.8
5	13	145	294	3.1
2	6	117	130	2.1