

Photometric test report

Family
Silica® 21 round M

Order number: 51MF23DBEMWA
EAN: 4069025806918

LP number
60072_13

serial
documentation
20.05.2026

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

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG-DALI

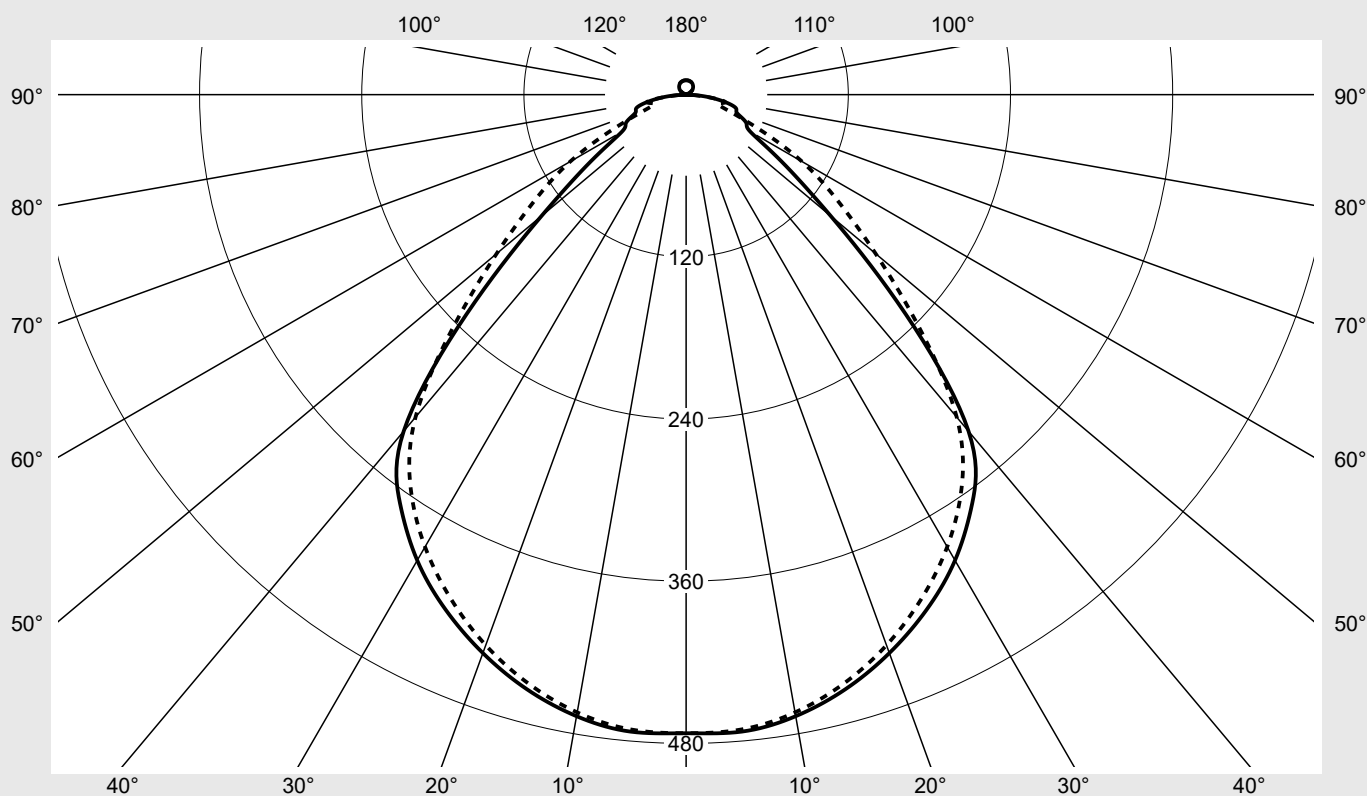
Rated values Net luminous flux = 5720 lm
Power consumption = 35.7 W
Luminous efficacy = 160.2 lm/W

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°

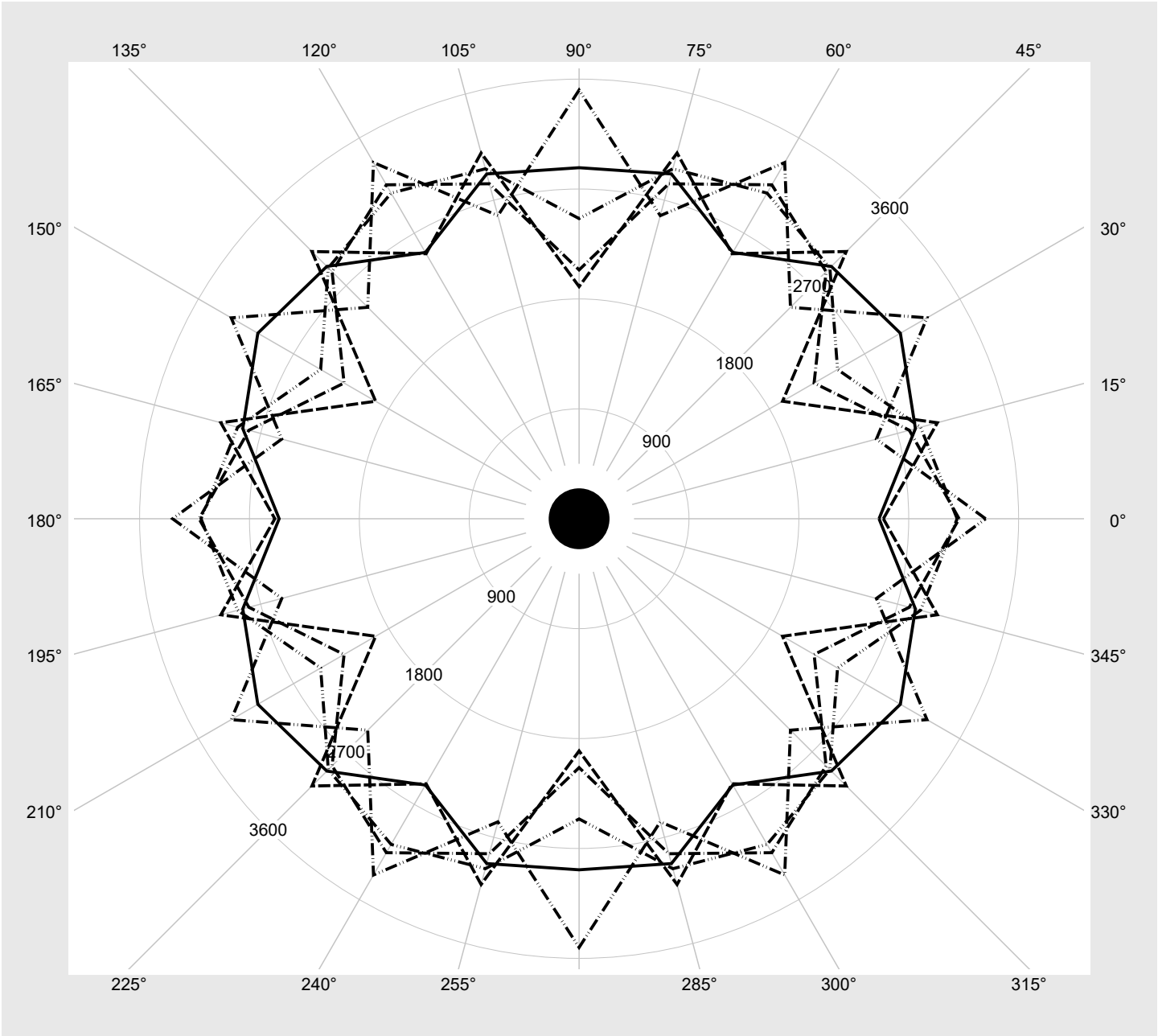
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	5720	35.7
95	241	252	5439	33.9
90	228	250	5155	32.1
85	215	248	4871	30.3
80	202	246	4585	28.4
75	189	243	4299	26.7
70	176	241	4011	24.9
65	163	238	3721	23.1
60	150	235	3430	21.4
55	137	231	3138	19.6
50	125	228	2868	18.0
45	112	224	2573	16.3
40	99	219	2277	14.5
35	87	215	2004	13.0
30	74	209	1706	11.4
25	62	202	1429	9.9
20	50	194	1152	8.4
15	37	183	852	6.3
10	25	169	573	4.6
5	13	145	293	3.0
2	6	117	129	2.1