

Photometric test report

Family
Silica® 21 round S

Order number: 51MF31DADNSA
EAN: 4069025807311

LP number
60079_6

serial
documentation
20.05.2026



Version Suspended luminaire, housing, silver, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤22

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

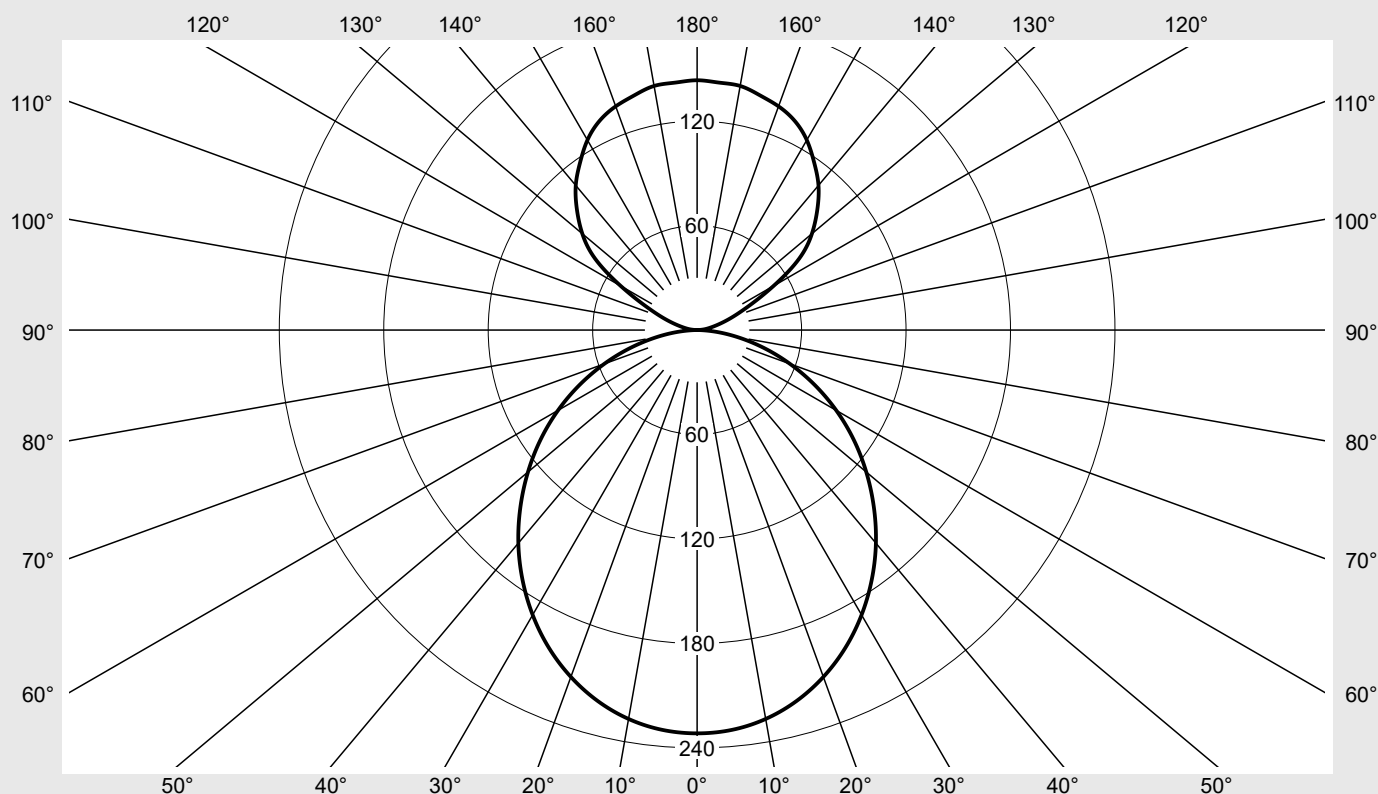
Rated values Net luminous flux = 3510 lm
Power consumption = 25.1 W
Luminous efficacy = 139.8 lm/W

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Luminous intensity in cd/klm

C180-0

Imax: 232 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=62 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 62.3%
 ϕ_o 37.7%

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°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	231.6	1.4	1.4
5°	230.5	11.0	12.4
10°	226.8	21.6	34.0
15°	220.6	31.3	65.3
20°	212.0	39.7	105.0
25°	201.4	46.7	151.7
30°	188.9	51.8	203.5
35°	174.9	55.0	258.5
40°	159.8	56.3	314.7
45°	143.5	55.6	370.4
50°	126.8	53.3	423.6
55°	109.8	49.3	472.9
60°	92.3	43.8	516.7
65°	74.5	37.0	553.7
70°	56.7	29.2	582.9
75°	39.7	21.0	604.0
80°	23.9	12.9	616.9
85°	10.3	5.6	622.5
90°	0.8	0.4	622.9
95°	3.3	1.8	624.7
100°	7.4	4.0	628.7
105°	13.0	6.9	635.6
110°	21.3	11.0	646.5
115°	32.8	16.3	662.8
120°	50.7	24.1	686.9
125°	71.6	32.1	719.0
130°	86.1	36.1	755.2
135°	97.6	37.8	793.0
140°	108.5	38.2	831.2
145°	117.3	36.9	868.1
150°	126.0	34.5	902.6
155°	132.6	30.7	933.3
160°	136.7	25.6	959.0
165°	139.6	19.8	978.8
170°	142.4	13.6	992.3
175°	142.7	6.8	999.1
180°	143.5	0.9	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	15.9	17.0	16.7	17.8	18.8	15.9	17.0	16.7	17.8	18.8
	3H	17.3	18.3	18.2	19.1	20.2	17.3	18.3	18.2	19.1	20.2
	4H	18.0	18.9	18.8	19.7	20.8	18.0	18.9	18.8	19.7	20.8
	6H	18.4	19.2	19.3	20.1	21.2	18.4	19.2	19.3	20.1	21.2
	8H	18.5	19.2	19.4	20.1	21.2	18.5	19.2	19.4	20.1	21.2
	12H	18.6	19.3	19.5	20.2	21.3	18.6	19.3	19.5	20.2	21.3
4H	2H	16.5	17.4	17.4	18.3	19.3	16.5	17.4	17.4	18.3	19.3
	3H	18.2	18.9	19.0	19.8	20.9	18.2	18.9	19.0	19.8	20.9
	4H	18.9	19.5	19.8	20.4	21.6	18.9	19.5	19.8	20.4	21.6
	6H	19.4	20.0	20.3	20.9	22.1	19.4	20.0	20.3	20.9	22.1
	8H	19.5	20.1	20.5	21.0	22.2	19.5	20.1	20.5	21.0	22.2
	12H	19.7	20.2	20.6	21.1	22.3	19.7	20.2	20.6	21.1	22.3
8H	4H	19.1	19.6	20.0	20.5	21.7	19.1	19.6	20.0	20.5	21.7
	6H	19.7	20.2	20.7	21.1	22.3	19.7	20.2	20.7	21.1	22.3
	8H	20.0	20.4	20.9	21.3	22.5	20.0	20.4	20.9	21.3	22.5
	12H	20.2	20.6	21.2	21.5	22.7	20.2	20.6	21.2	21.5	22.7
12H	4H	19.1	19.6	20.1	20.5	21.7	19.1	19.6	20.1	20.5	21.7
	6H	19.8	20.2	20.8	21.2	22.4	19.8	20.2	20.8	21.2	22.4
	8H	20.1	20.5	21.1	21.4	22.6	20.1	20.5	21.1	21.4	22.6

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 386
C-planes	0°		
γ	Luminance in cd/m²		
45°	6088.0		
50°	5918.1		
55°	5742.2		
60°	5535.6		
65°	5284.5		
70°	4975.6		
75°	4604.7		
80°	4132.8		
85°	3530.6		

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Luminance values in cd/m²

γ 65°

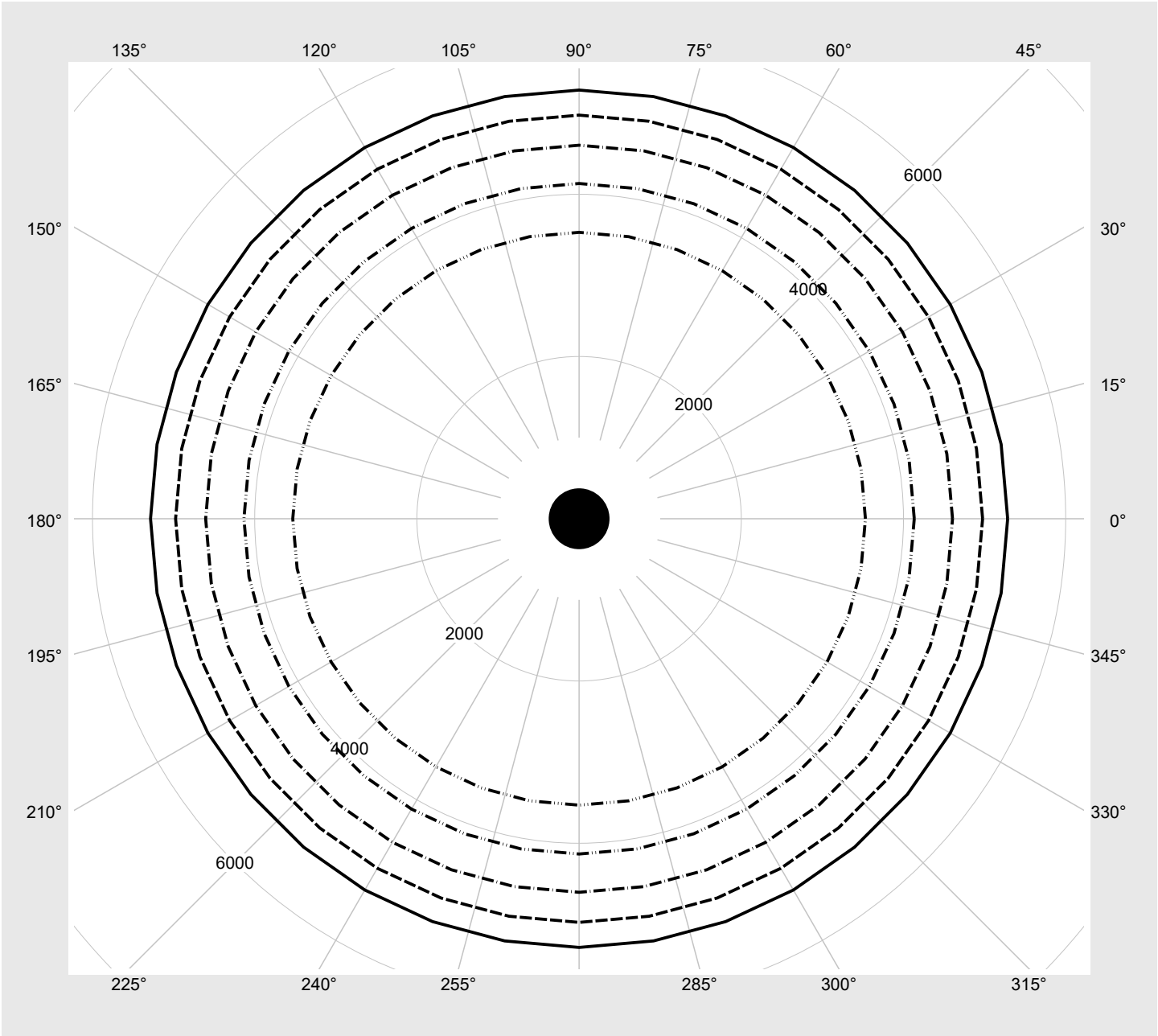
γ 70°

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	3510	25.1
95	241	252	3338	23.9
90	228	250	3165	22.6
85	214	248	2977	21.3
80	201	245	2803	20.0
75	188	243	2627	18.7
70	175	240	2451	17.5
65	163	238	2287	16.4
60	150	235	2109	15.1
55	137	231	1930	13.9
50	124	228	1750	12.6
45	112	224	1583	11.5
40	99	219	1401	10.3
35	87	215	1233	9.1
30	74	209	1050	7.9
25	62	202	881	6.8
20	49	194	697	5.5
15	37	183	526	4.3
10	25	169	354	3.1
5	13	145	181	1.8
3	8	127	109	1.2