

Photometric test report

Family
Silica® 21 round S

Order number: 51MF21DADNBA
EAN: 4069025805867

LP number
60073_24

serial
documentation
20.05.2026



Version surface-mounted luminaire, housing, black, cover, opal, direct extremely wide distribution with ceiling illumination, UGR≤22

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

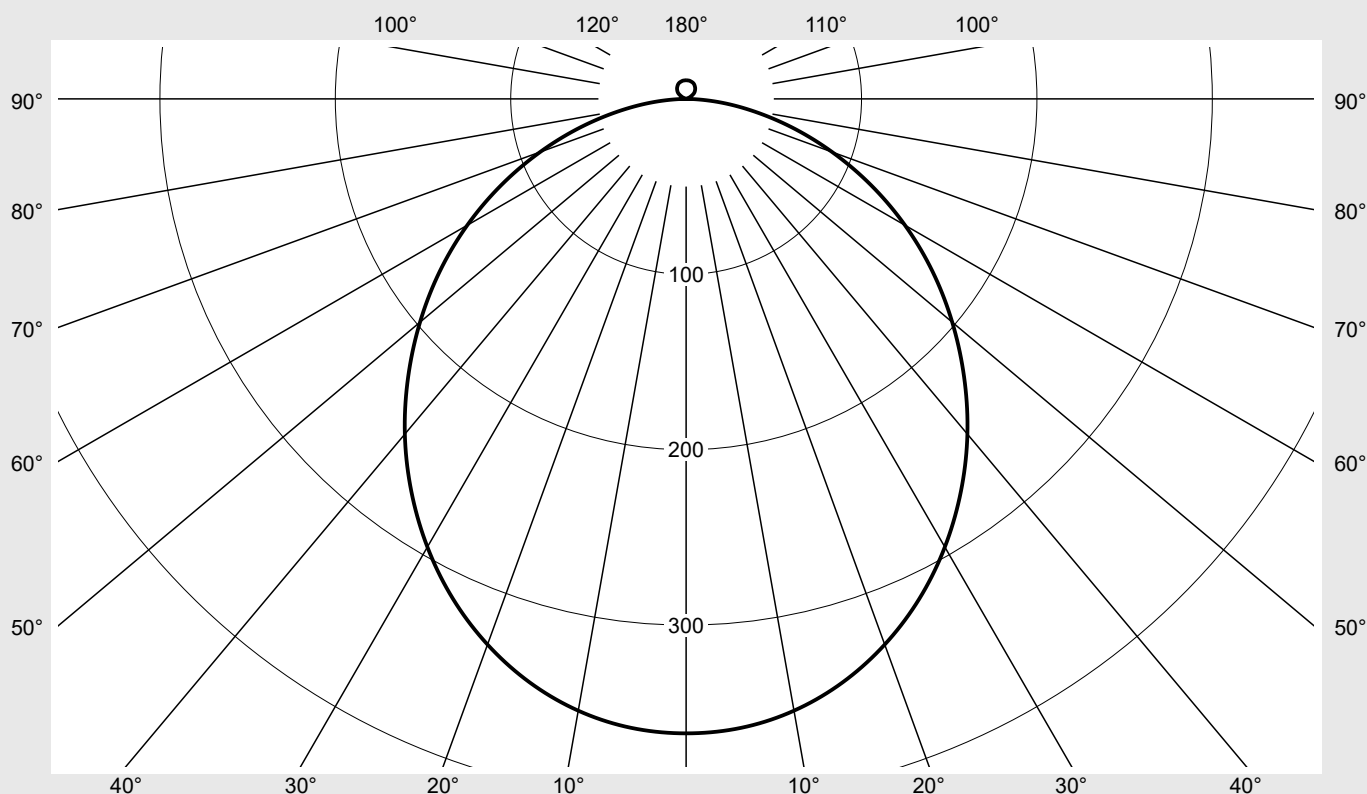
Rated values Net luminous flux = 2250 lm
Power consumption = 17.1 W
Luminous efficacy = 131.6 lm/W

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Luminous intensity in cd/klm

C180-0

Imax: 362 cd/klm



Classifications

DIN 5040 A 4 3
CIE N1=49 N2=79 N3=96
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°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	361.7	2.2	2.2
5°	359.9	17.2	19.4
10°	354.2	33.7	53.1
15°	344.4	48.9	101.9
20°	331.1	62.1	164.0
25°	314.5	72.9	236.9
30°	295.0	80.9	317.7
35°	273.1	85.9	403.6
40°	249.5	87.9	491.5
45°	224.1	86.9	578.4
50°	198.0	83.2	661.5
55°	171.5	77.0	738.5
60°	144.1	68.4	806.9
65°	116.3	57.8	864.7
70°	88.6	45.6	910.3
75°	62.0	32.8	943.1
80°	37.4	20.2	963.3
85°	16.0	8.7	972.1
90°	0.1	0.0	972.1
95°	0.2	0.1	972.2
100°	0.5	0.3	972.5
105°	1.0	0.5	973.0
110°	1.6	0.8	973.8
115°	2.4	1.2	975.0
120°	3.8	1.8	976.8
125°	5.3	2.4	979.2
130°	6.4	2.7	981.9
135°	7.2	2.8	984.7
140°	8.0	2.8	987.5
145°	8.7	2.7	990.2
150°	9.3	2.6	992.8
155°	9.8	2.3	995.1
160°	10.1	1.9	997.0
165°	10.3	1.5	998.4
170°	10.5	1.0	999.4
175°	10.6	0.5	999.9
180°	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	18.4	20.1	18.7	20.4	20.7	18.4	20.1	18.7	20.4	20.7		
	3H	19.9	21.5	20.3	21.8	22.1	19.9	21.5	20.3	21.8	22.1		
	4H	20.6	22.0	21.0	22.4	22.7	20.6	22.0	21.0	22.4	22.7		
	6H	21.1	22.4	21.5	22.7	23.1	21.1	22.4	21.5	22.7	23.1		
	8H	21.3	22.5	21.7	22.9	23.3	21.3	22.5	21.7	22.9	23.3		
	12H	21.4	22.5	21.8	22.9	23.3	21.4	22.5	21.8	22.9	23.3		
4H	2H	19.1	20.5	19.5	20.9	21.3	19.1	20.5	19.5	20.9	21.3		
	3H	20.9	22.1	21.3	22.5	22.9	20.9	22.1	21.3	22.5	22.9		
	4H	21.6	22.7	22.1	23.1	23.6	21.6	22.7	22.1	23.1	23.6		
	6H	22.2	23.2	22.7	23.6	24.1	22.2	23.2	22.7	23.6	24.1		
	8H	22.4	23.3	22.9	23.7	24.2	22.4	23.3	22.9	23.7	24.2		
	12H	22.6	23.4	23.1	23.8	24.3	22.6	23.4	23.1	23.8	24.3		
8H	4H	22.0	22.8	22.4	23.3	23.7	22.0	22.8	22.4	23.3	23.7		
	6H	22.7	23.4	23.2	23.9	24.4	22.7	23.4	23.2	23.9	24.4		
	8H	23.0	23.6	23.5	24.1	24.6	23.0	23.6	23.5	24.1	24.6		
	12H	23.2	23.7	23.7	24.2	24.8	23.2	23.7	23.7	24.2	24.8		
12H	4H	22.0	22.8	22.5	23.2	23.7	22.0	22.8	22.5	23.2	23.7		
	6H	22.8	23.4	23.3	23.9	24.4	22.8	23.4	23.3	23.9	24.4		
	8H	23.1	23.6	23.6	24.1	24.7	23.1	23.6	23.6	24.1	24.7		

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 386
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C-planes	0°
γ	Luminance in cd/m²
45°	6094.0
50°	5923.9
55°	5747.9
60°	5541.0
65°	5289.7
70°	4980.4
75°	4609.2
80°	4136.9
85°	3533.7

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Luminance values in cd/m²

γ 65°

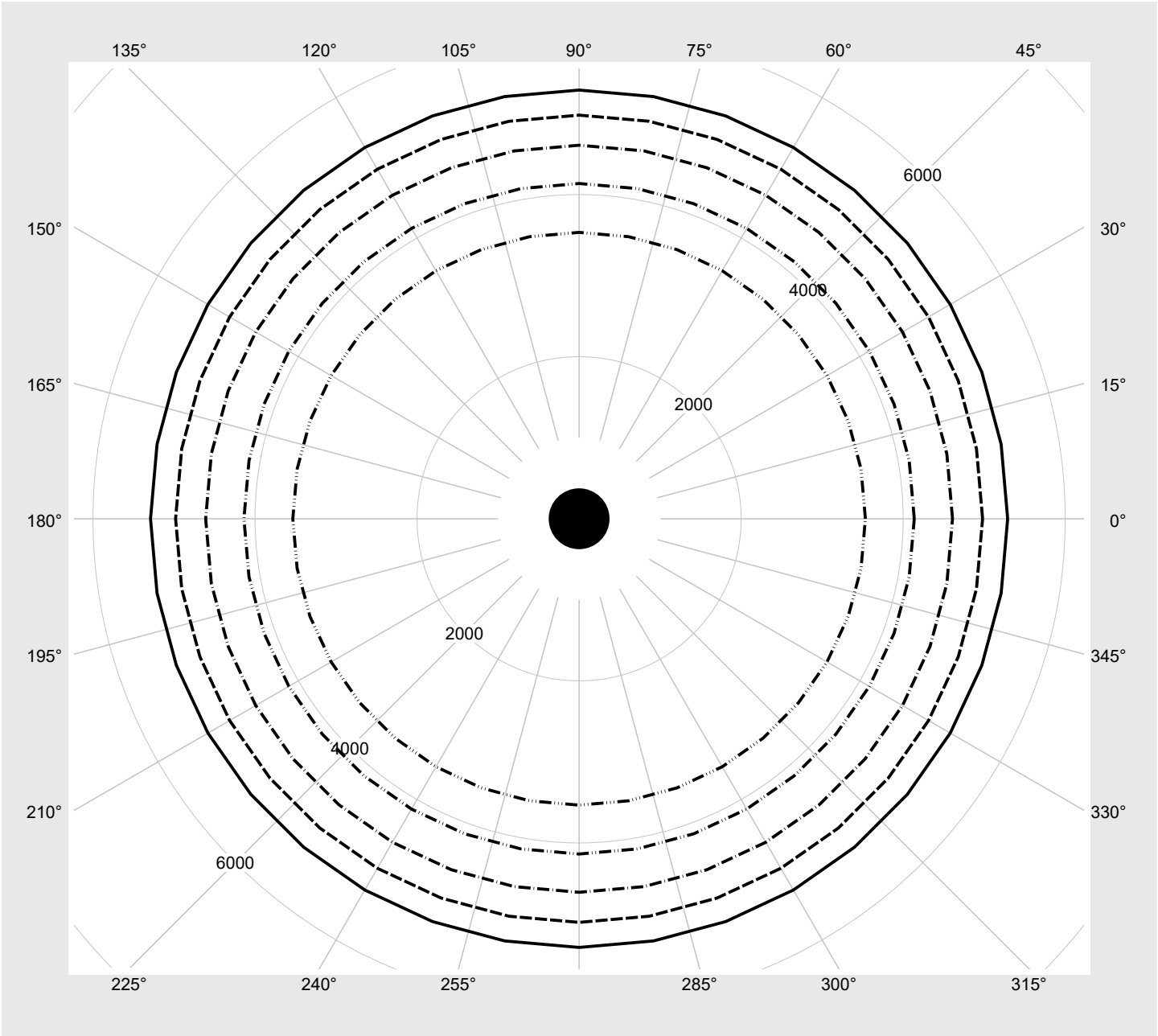
γ 70°

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	2250	17.1
95	241	252	2139	16.3
90	228	250	2027	15.4
85	215	248	1915	14.5
80	202	246	1802	13.7
75	189	243	1689	12.9
70	176	241	1575	12.1
65	163	238	1461	11.3
60	150	235	1347	10.5
55	138	232	1241	9.7
50	125	228	1126	8.9
45	112	224	1010	8.0
40	100	220	903	7.3
35	87	215	787	6.4
30	75	209	679	5.7
25	62	202	561	4.8
20	50	194	453	4.0
15	37	183	335	3.1
10	25	169	225	2.2
5	13	145	115	1.3
5	12	142	106	1.2