

Photometric test report

Family
Silica® 21 round M

Order number: 51MF21DB4NSA
EAN: 4069025806055

LP number
60073_47

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

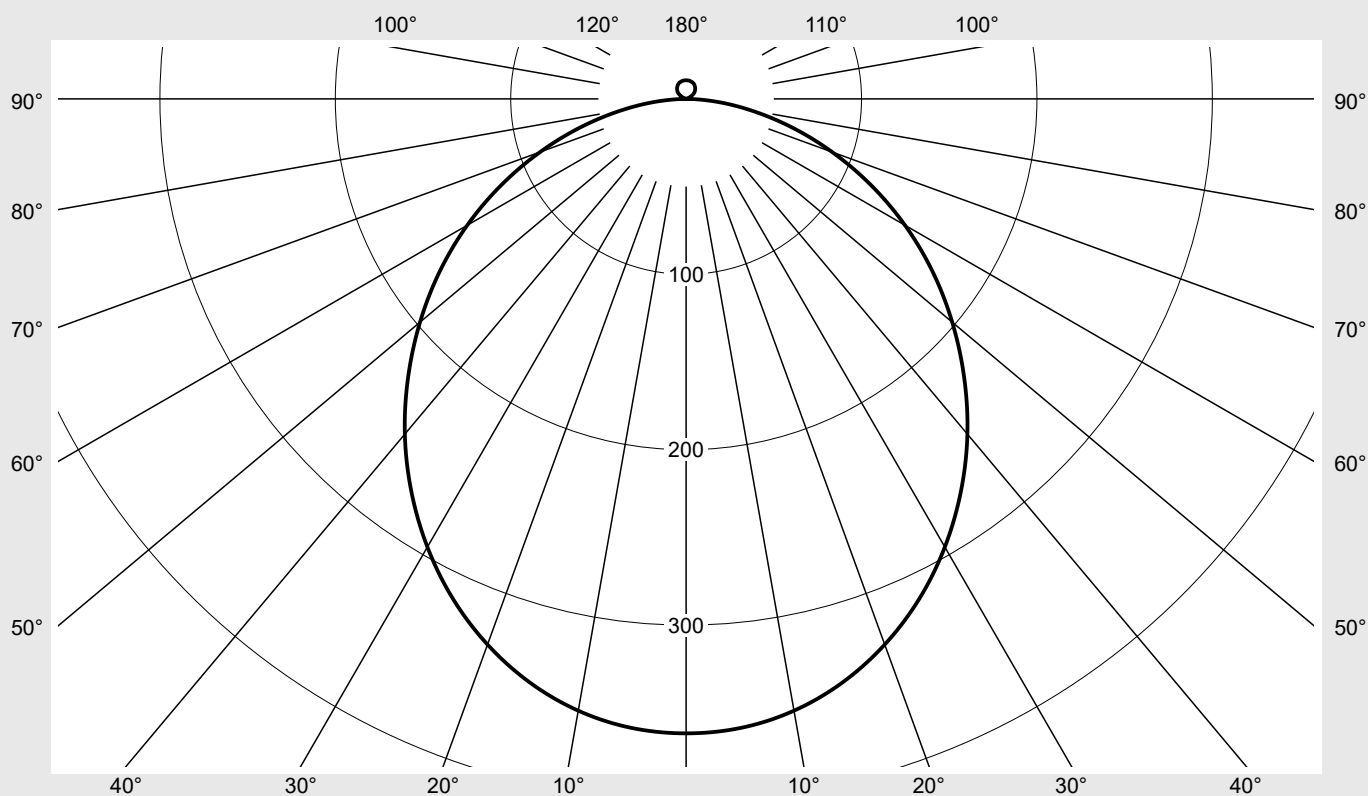
Rated values Net luminous flux = 5210 lm
Power consumption = 30.6 W
Luminous efficacy = 170.3 lm/W

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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

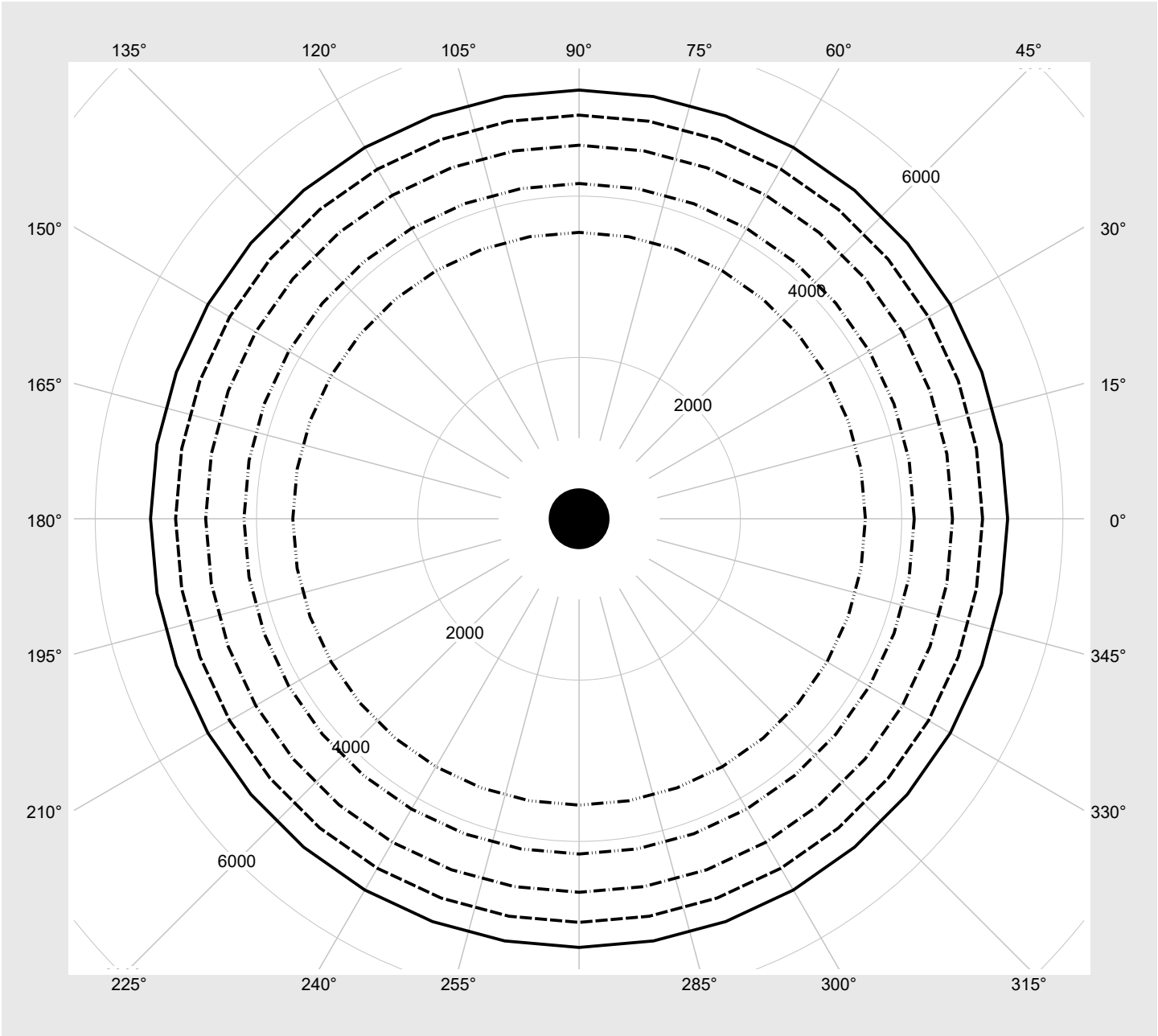
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UGR-Table			Standard room							siteco	
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room 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	20.0	21.5	20.3	21.8	22.2	20.0	21.5	20.3	21.8	22.2
	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	22.8	23.1	21.1	22.4	21.5	22.8	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	20.6	19.5	20.9	21.3	19.1	20.6	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	22.5	23.3	22.9	23.8	24.2	22.5	23.3	22.9	23.8	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	22.9	22.4	23.3	23.8	22.0	22.9	22.4	23.3	23.8
	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	23.3	23.8	22.0	22.8	22.5	23.3	23.8
	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 = 586
C- planes		0°		
γ	Luminance in cd/m²			
45°	6122.6			
50°	5951.7			
55°	5774.9			
60°	5567.1			
65°	5314.6			
70°	5003.7			
75°	4630.8			
80°	4156.4			
85°	3550.3			

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°			siteco



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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	5210	30.6
95	241	252	4947	29.1
90	228	250	4682	27.5
85	216	248	4438	26.1
80	203	246	4172	24.6
75	190	243	3906	23.2
70	177	241	3638	21.7
65	165	238	3391	20.3
60	152	235	3122	18.8
55	140	232	2873	17.4
50	127	229	2602	15.9
45	115	225	2352	14.6
40	102	221	2080	13.1
35	90	216	1828	11.9
30	77	210	1555	10.5
25	65	204	1302	9.1
20	53	197	1048	7.7
15	40	186	773	6.0
10	28	173	518	4.5
5	16	153	262	3.1
1	7	122	70	2.1