

Photometric test report

Family
Silica® 21 round S

Order number: 51MF21DA4NBA
EAN: 4069025805799

LP number
60073_23

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

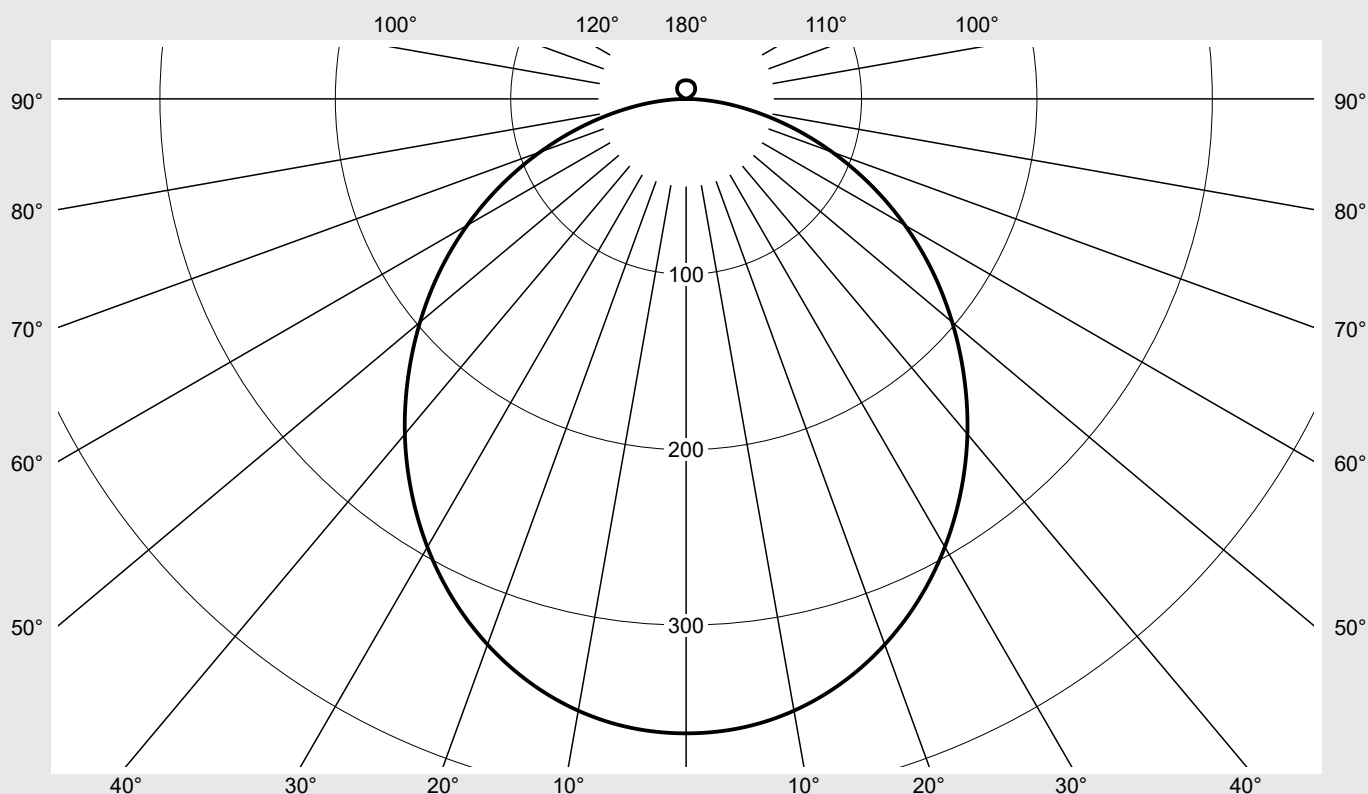
Rated values Net luminous flux = 2250 lm
Power consumption = 15.6 W
Luminous efficacy = 144.2 lm/W

siteco

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		siteco

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
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°

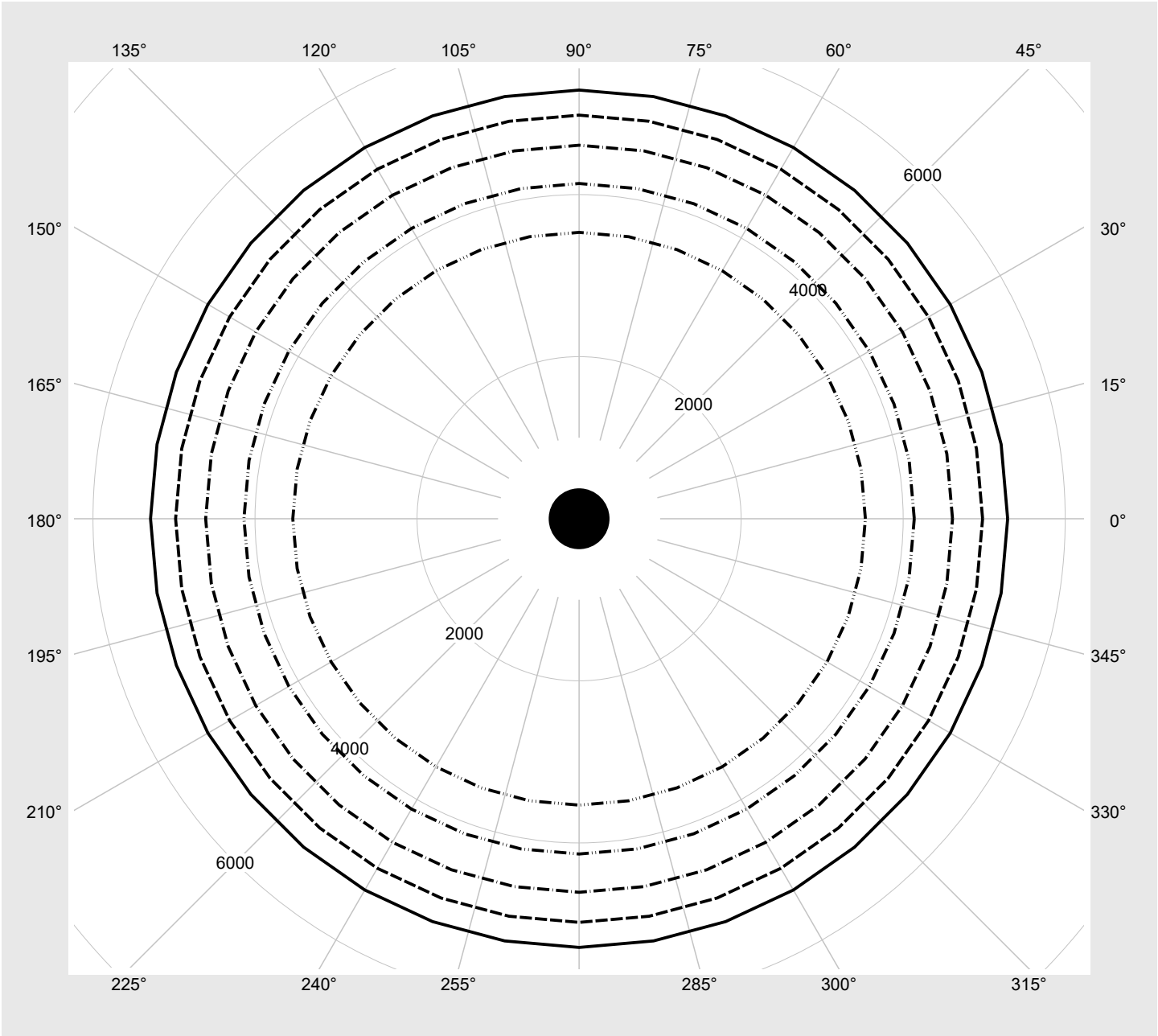
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2250	15.6
95	241	252	2136	14.8
90	228	250	2022	14.0
85	216	248	1916	13.3
80	203	246	1801	12.6
75	190	243	1687	11.9
70	177	241	1571	11.1
65	165	238	1465	10.5
60	152	235	1349	9.7
55	140	232	1242	9.0
50	127	229	1125	8.3
45	114	225	1009	7.5
40	102	221	900	6.8
35	90	216	792	6.1
30	77	210	674	5.3
25	65	204	565	4.6
20	52	196	447	3.8
15	40	186	337	3.1
10	28	173	227	2.3
5	16	153	116	1.4
4	13	145	89	1.2