

Photometric test report

Family
Silica® 21 round M

Order number: 51MF21DBDNSA
EAN: 4069025806116

LP number
60073_48

serial
documentation
20.05.2026



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

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

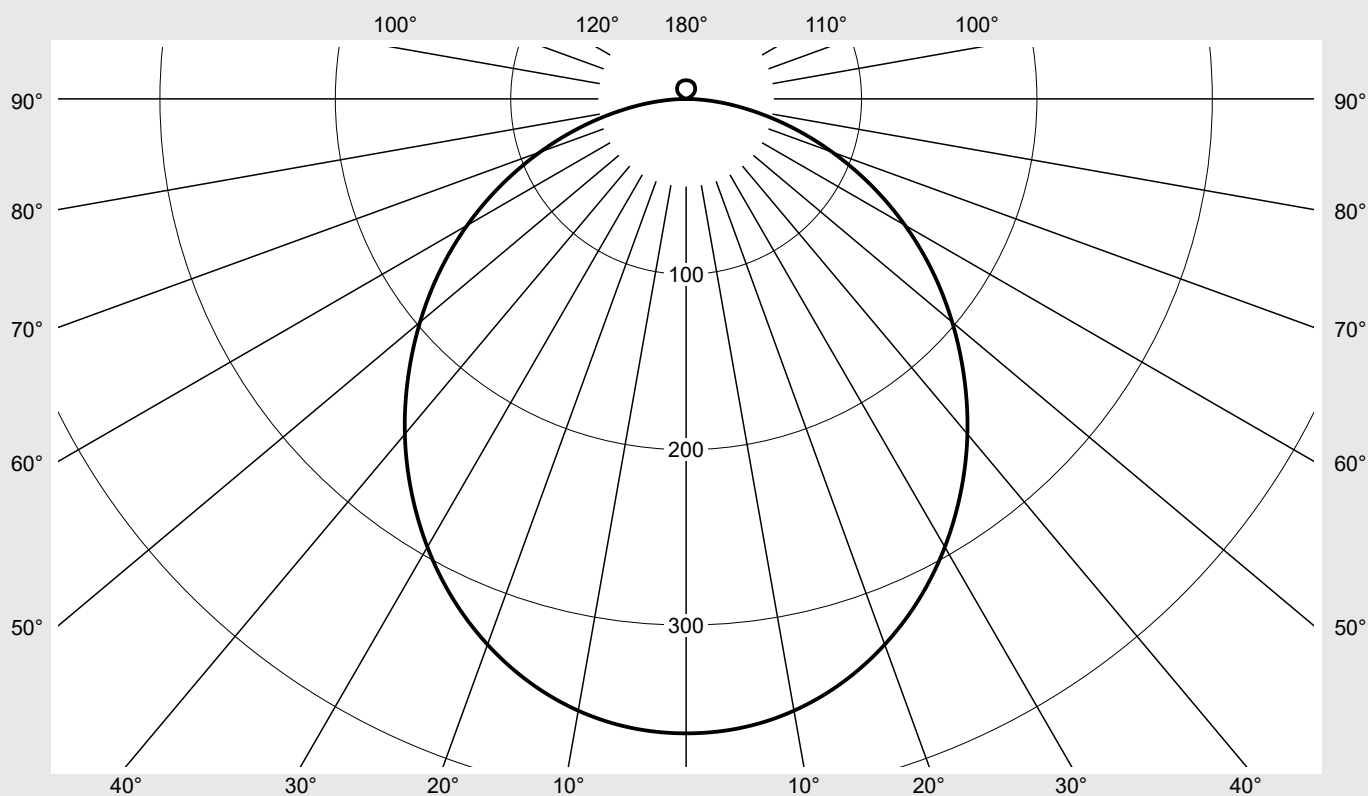
Rated values Net luminous flux = 5210 lm
Power consumption = 33.6 W
Luminous efficacy = 155.1 lm/W

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	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°

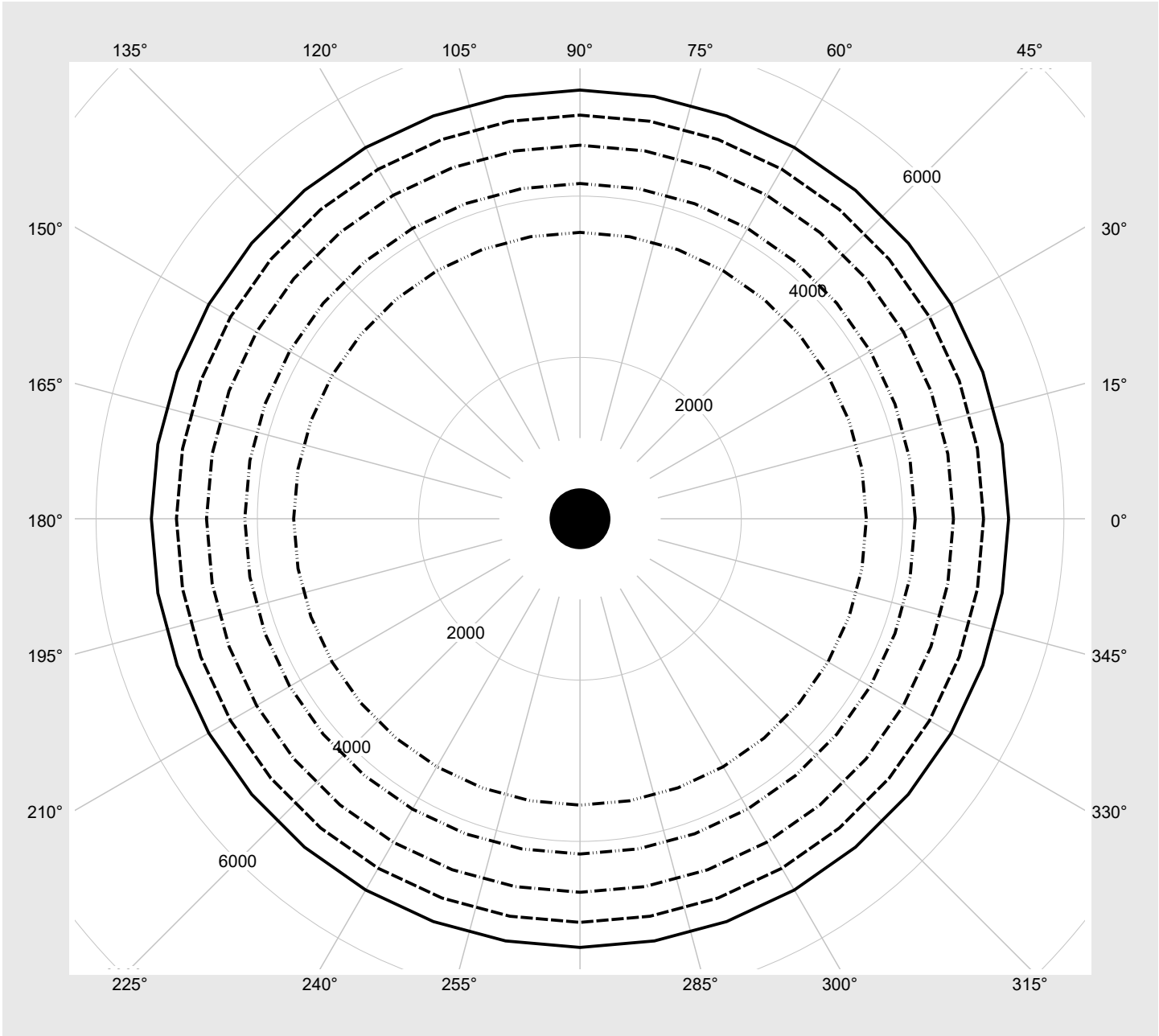
γ 70°

γ 75°

γ 80°

γ 85°

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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	5210	33.6
95	241	252	4952	31.9
90	228	250	4694	30.2
85	215	248	4434	28.5
80	202	246	4174	26.9
75	189	243	3912	25.2
70	176	241	3649	23.6
65	163	238	3385	21.9
60	150	235	3120	20.2
55	138	232	2874	18.7
50	125	228	2608	17.0
45	112	224	2339	15.5
40	100	220	2091	14.0
35	87	215	1820	12.5
30	75	209	1570	11.0
25	62	202	1299	9.4
20	50	194	1047	7.9
15	37	183	773	6.0
10	25	169	520	4.4
5	13	145	265	2.9
2	6	117	117	2.0