

Photometric test report

Family
Silica® 21 round M

Order number: 51MF21DBDNWA
EAN: 4069025806130

LP number
60073_12

serial
documentation
20.05.2026

siteco

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

Lamps LED 3000 K | CRI ≥ 90

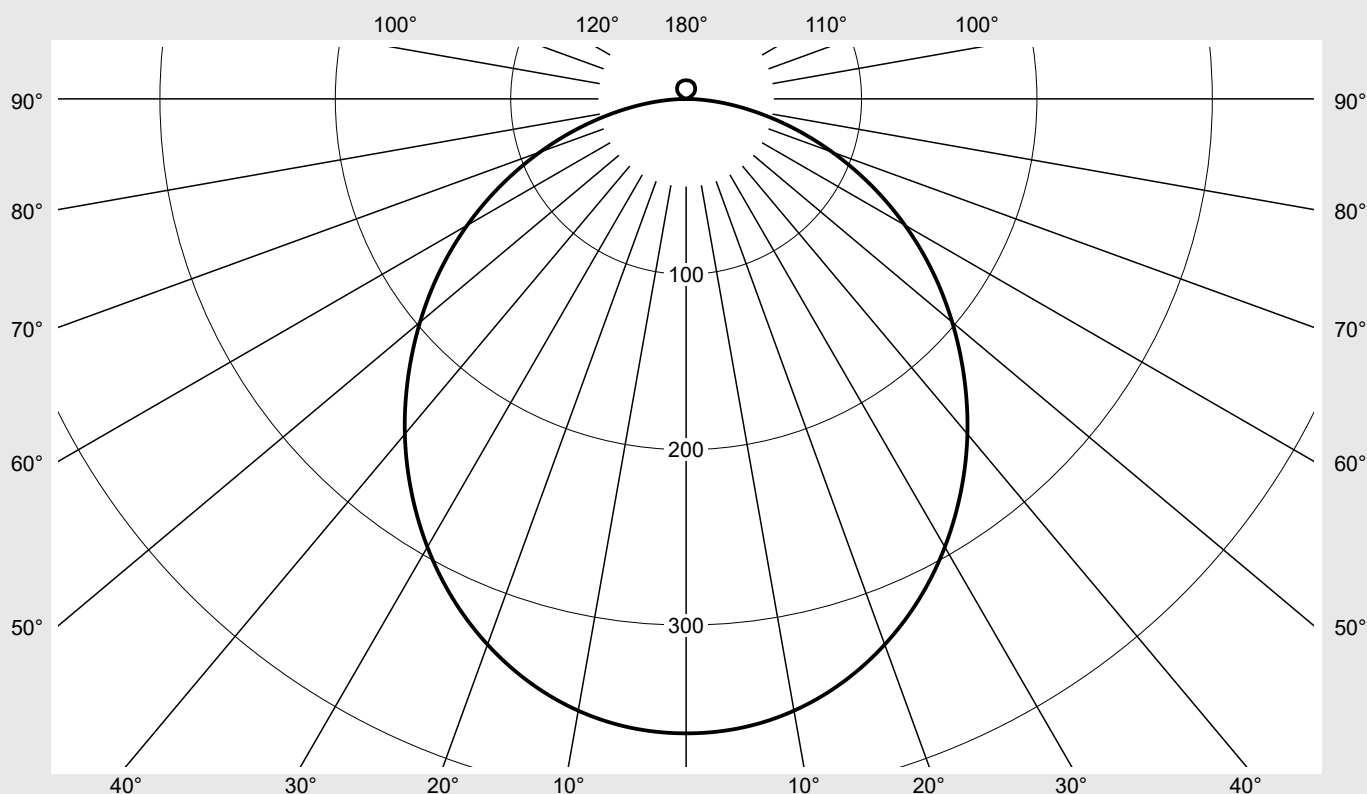
Controlgear ECG-DALI

Rated values Net luminous flux = 5210 lm
Power consumption = 32.8 W
Luminous efficacy = 158.8 lm/W

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°

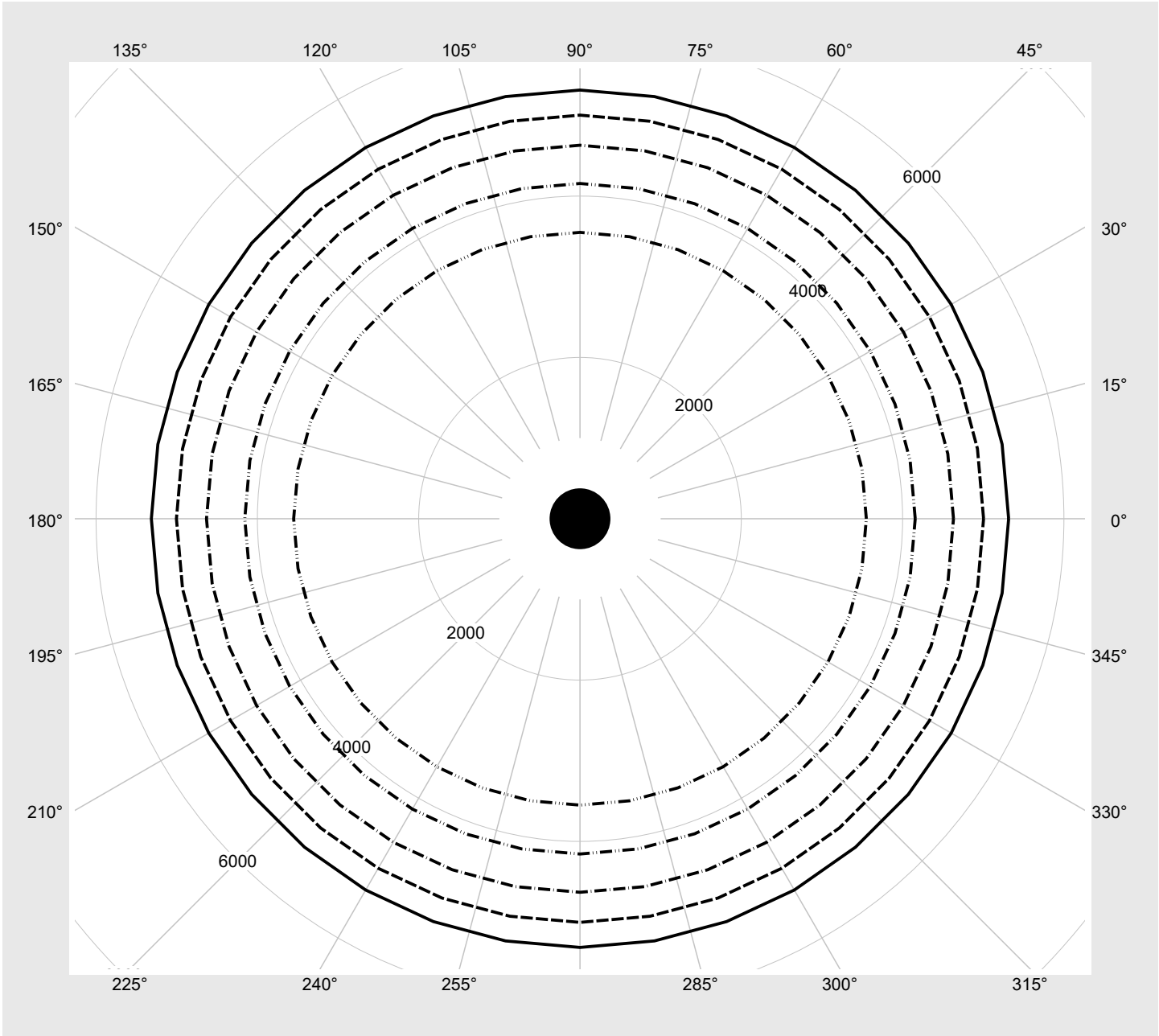
γ 70°

γ 75°

γ 80°

γ 85°

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Family Silica® 21 round M	Order number: 51MF21DBDNEW EAN: 4069025806130	LP number 60073_12
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	32.8
95	241	252	4952	31.2
90	228	250	4693	29.6
85	215	248	4434	27.8
80	202	246	4173	26.3
75	189	243	3912	24.6
70	176	241	3648	23.0
65	163	238	3384	21.4
60	150	235	3119	19.8
55	138	232	2873	18.3
50	125	228	2606	16.7
45	112	224	2338	15.1
40	100	220	2090	13.7
35	87	215	1819	12.3
30	75	209	1569	10.8
25	62	202	1298	9.2
20	50	194	1046	7.7
15	37	183	773	5.9
10	25	169	519	4.3
5	13	145	265	2.9
3	7	122	137	2.1