

Photometric test report

Family
Silica® 21 round L

Order number: 51MF21DCDNWA
EAN: 4069025806376

LP number
60073_18

serial
documentation
20.05.2026

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

Lamps LED 3000 K | CRI ≥ 90

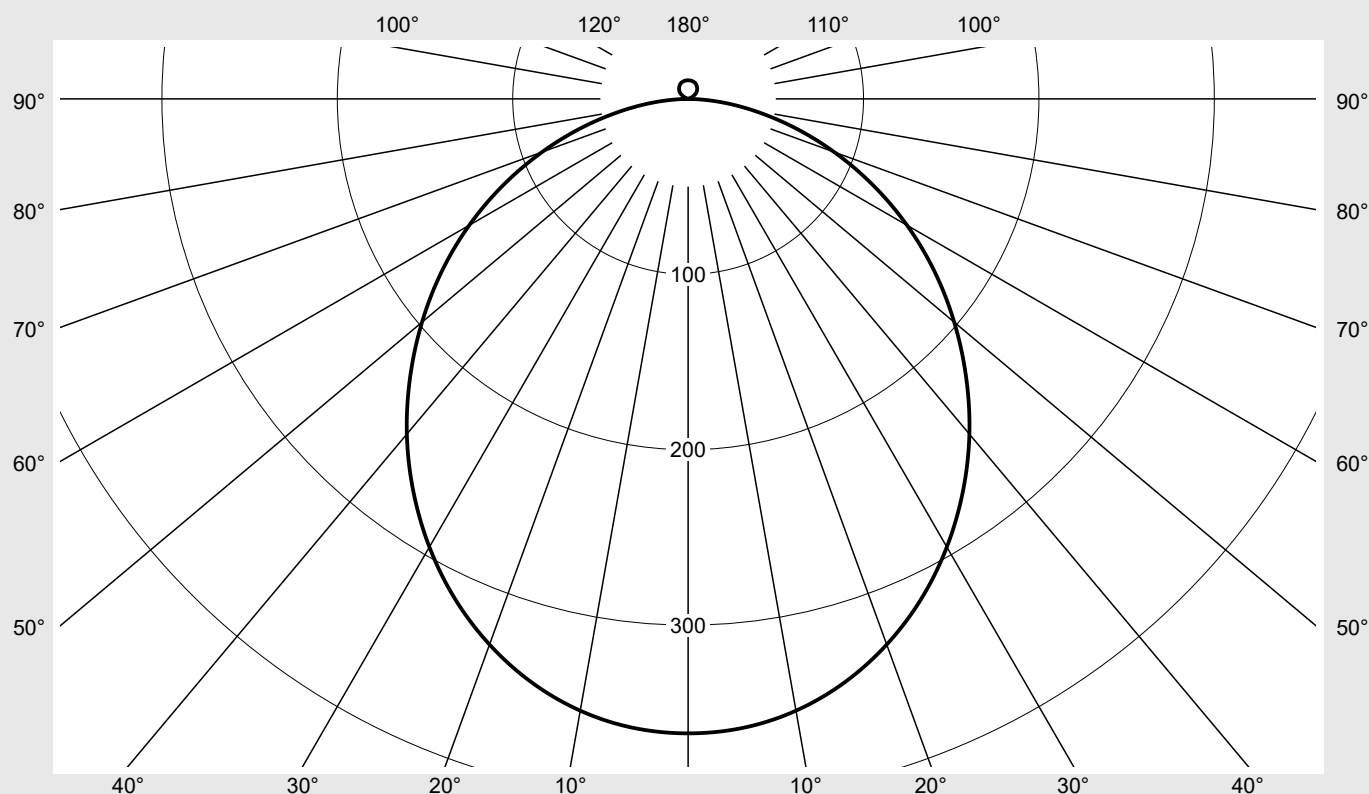
Controlgear ECG-DALI

Rated values Net luminous flux = 11880 lm
Power consumption = 73.4 W
Luminous efficacy = 161.9 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

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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	22.7	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	20.6	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	22.4	23.3	22.9	23.8	24.2	22.4	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	22.8	22.4	23.3	23.8	22.0	22.8	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	23.7	22.0	22.8	22.5	23.3	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 = 886
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C-planes	0°
γ	Luminance in cd/m²
45°	6107.2
50°	5936.7
55°	5760.4
60°	5553.1
65°	5301.2
70°	4991.2
75°	4619.2
80°	4145.9
85°	3541.4

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Luminance values in cd/m²

γ 65°

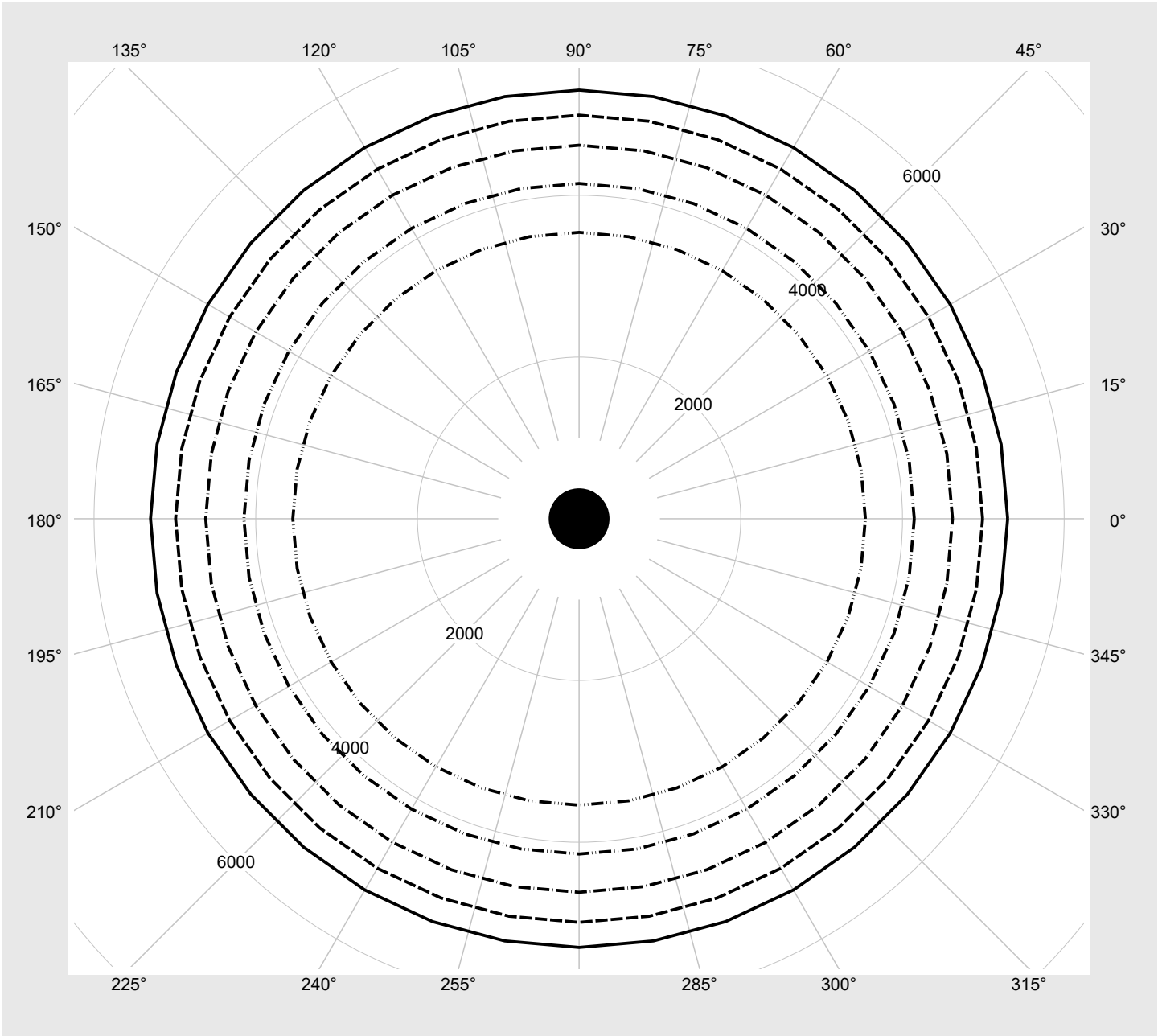
γ 70°

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	11880	73.4
95	241	252	11296	69.6
90	228	250	10708	65.8
85	215	248	10119	62.0
80	202	246	9525	58.4
75	189	243	8930	54.6
70	176	241	8331	51.0
65	163	238	7730	47.3
60	150	235	7127	43.7
55	137	231	6521	40.0
50	125	228	5960	36.6
45	112	224	5350	33.1
40	99	219	4736	29.4
35	87	215	4167	26.1
30	74	209	3548	22.6
25	62	202	2974	19.3
20	50	194	2398	16.1
15	37	183	1772	12.8
10	25	169	1191	9.6
5	13	145	608	6.4
1	3	91	122	3.4