

Photometric test report

Family
Silica® 21 round L

Order number: 51MF31DCDNSA
EAN: 4069025807793

LP number
60085_12

serial
documentation
20.05.2026

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Version Suspended luminaire, housing, silver, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤22

Lamps LED 3000 K | CRI ≥ 90

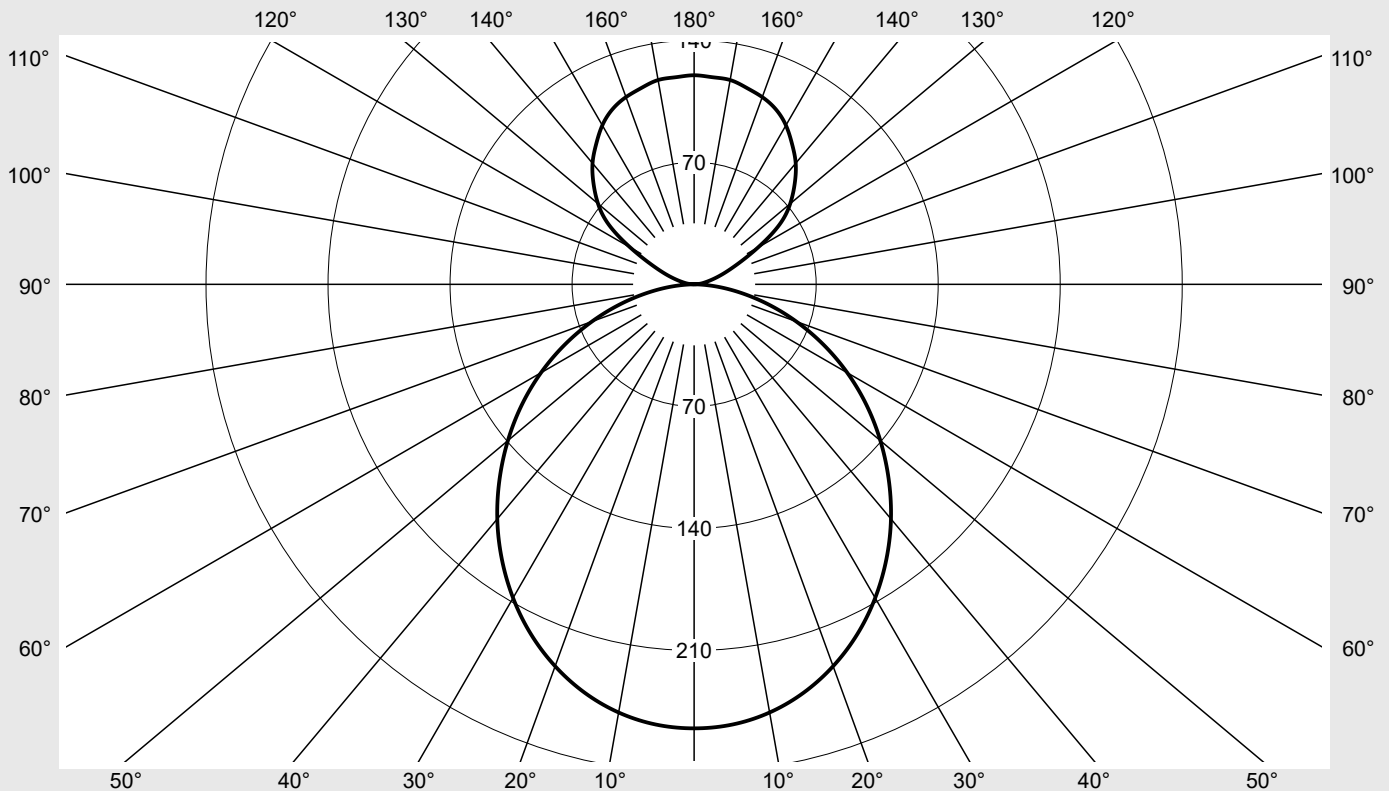
Controlgear ECG-DALI

Rated values Net luminous flux = 14520 lm
Power consumption = 90.2 W
Luminous efficacy = 161 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 255 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=68 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 68.5%
 ϕ_o 31.5%

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°	254.7	1.5	1.5
5°	253.4	12.1	13.6
10°	249.4	23.7	37.4
15°	242.5	34.4	71.8
20°	233.1	43.7	115.5
25°	221.5	51.3	166.8
30°	207.7	56.9	223.7
35°	192.3	60.5	284.2
40°	175.7	61.9	346.1
45°	157.8	61.2	407.2
50°	139.4	58.6	465.8
55°	120.7	54.2	520.0
60°	101.5	48.2	568.2
65°	81.9	40.7	608.8
70°	62.4	32.1	641.0
75°	43.7	23.1	664.1
80°	26.3	14.2	678.3
85°	11.3	6.2	684.5
90°	0.7	0.4	684.8
95°	2.7	1.5	686.3
100°	6.1	3.3	689.6
105°	10.8	5.7	695.4
110°	17.8	9.2	704.5
115°	27.5	13.6	718.2
120°	42.4	20.1	738.3
125°	59.8	26.9	765.2
130°	71.9	30.2	795.4
135°	81.6	31.6	827.0
140°	90.7	31.9	858.9
145°	98.0	30.8	889.7
150°	105.3	28.9	918.6
155°	110.8	25.7	944.3
160°	114.3	21.4	965.7
165°	116.6	16.5	982.3
170°	119.0	11.3	993.6
175°	119.3	5.7	999.3
180°	119.9	0.7	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	15.9	17.0	16.6	17.8	18.7	15.9	17.0	16.6	17.8	18.7
	3H	17.3	18.3	18.1	19.1	20.1	17.3	18.3	18.1	19.1	20.1
	4H	17.9	18.9	18.7	19.7	20.7	17.9	18.9	18.7	19.7	20.7
	6H	18.4	19.3	19.2	20.1	21.1	18.4	19.3	19.2	20.1	21.1
	8H	18.5	19.3	19.3	20.1	21.1	18.5	19.3	19.3	20.1	21.1
	12H	18.6	19.3	19.4	20.2	21.2	18.6	19.3	19.4	20.2	21.2
4H	2H	16.5	17.4	17.3	18.2	19.2	16.5	17.4	17.3	18.2	19.2
	3H	18.1	18.9	19.0	19.8	20.8	18.1	18.9	19.0	19.8	20.8
	4H	18.9	19.6	19.7	20.4	21.4	18.9	19.6	19.7	20.4	21.4
	6H	19.4	20.1	20.3	20.9	22.0	19.4	20.1	20.3	20.9	22.0
	8H	19.5	20.1	20.4	21.0	22.1	19.5	20.1	20.4	21.0	22.1
	12H	19.7	20.2	20.6	21.1	22.2	19.7	20.2	20.6	21.1	22.2
8H	4H	19.1	19.6	19.9	20.5	21.6	19.1	19.6	19.9	20.5	21.6
	6H	19.7	20.2	20.6	21.1	22.2	19.7	20.2	20.6	21.1	22.2
	8H	20.0	20.4	20.9	21.3	22.4	20.0	20.4	20.9	21.3	22.4
	12H	20.2	20.6	21.1	21.5	22.6	20.2	20.6	21.1	21.5	22.6
12H	4H	19.1	19.6	20.0	20.5	21.6	19.1	19.6	20.0	20.5	21.6
	6H	19.8	20.3	20.7	21.1	22.2	19.8	20.3	20.7	21.1	22.2
	8H	20.1	20.5	21.0	21.4	22.5	20.1	20.5	21.0	21.4	22.5

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 886
C-planes	0°		
γ	Luminance in cd/m²		
45°	5255.9		
50°	5109.3		
55°	4957.5		
60°	4779.0		
65°	4562.3		
70°	4295.5		
75°	3975.3		
80°	3568.0		
85°	3048.1		

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Luminance values in cd/m²

γ 65°

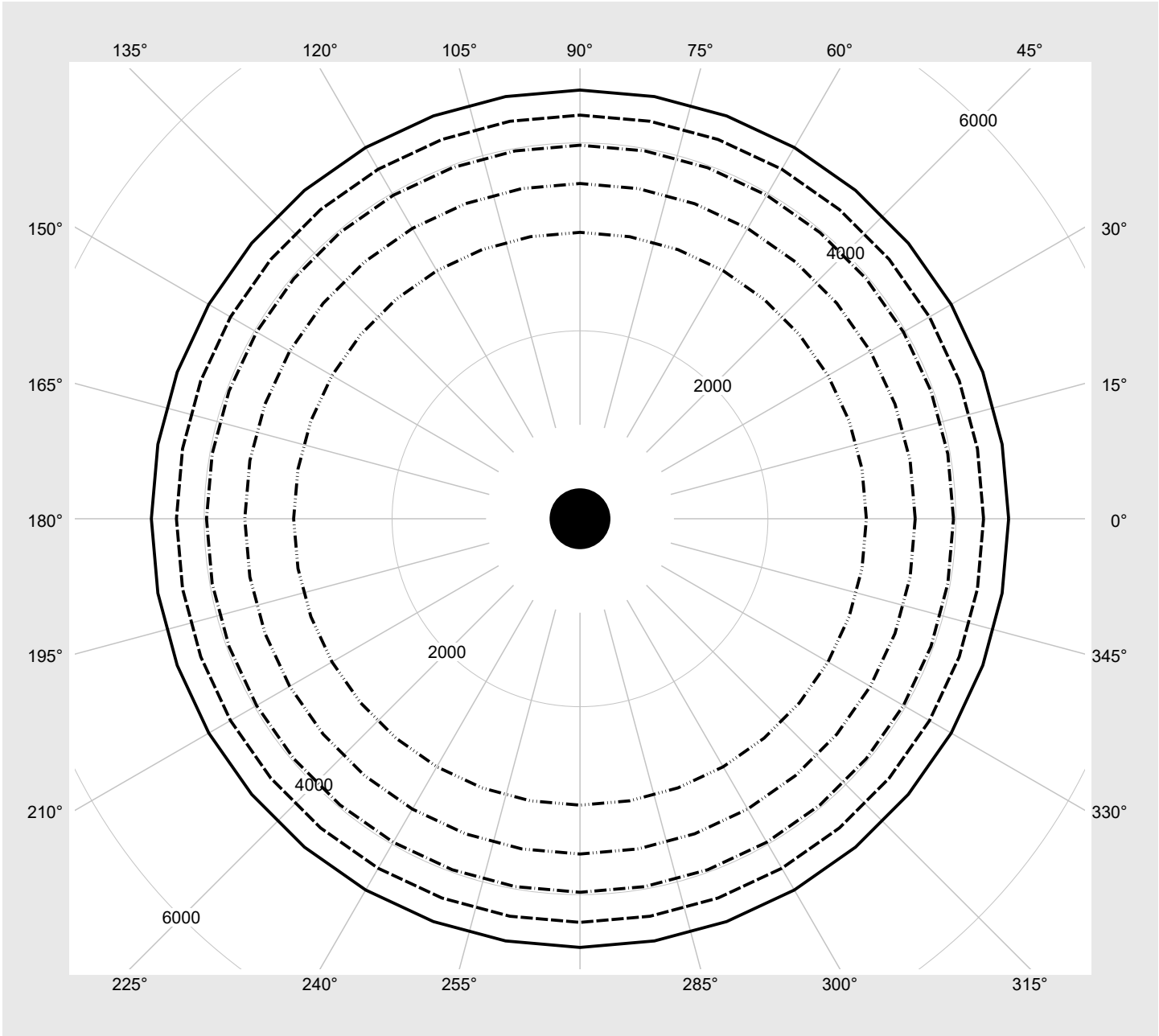
γ 70°

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	14520	90.2
95	241	252	13801	85.6
90	228	250	13082	81.0
85	215	248	12358	76.3
80	202	246	11633	71.7
75	189	243	10902	67.0
70	176	241	10170	62.4
65	163	238	9434	57.9
60	150	235	8695	53.4
55	138	232	8011	49.2
50	125	228	7268	44.8
45	112	224	6519	40.4
40	100	220	5827	36.2
35	87	215	5074	31.9
30	75	209	4377	28.0
25	62	202	3620	23.7
20	50	194	2917	19.5
15	37	183	2154	14.8
10	25	169	1446	10.4
5	13	145	737	6.1
3	8	127	441	4.3