

Photometric test report

Family
Silica® 21 round L

Order number: 51ME31DC3NSA
EAN: 4069025804532

LP number
60085_8

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 ≥ 80

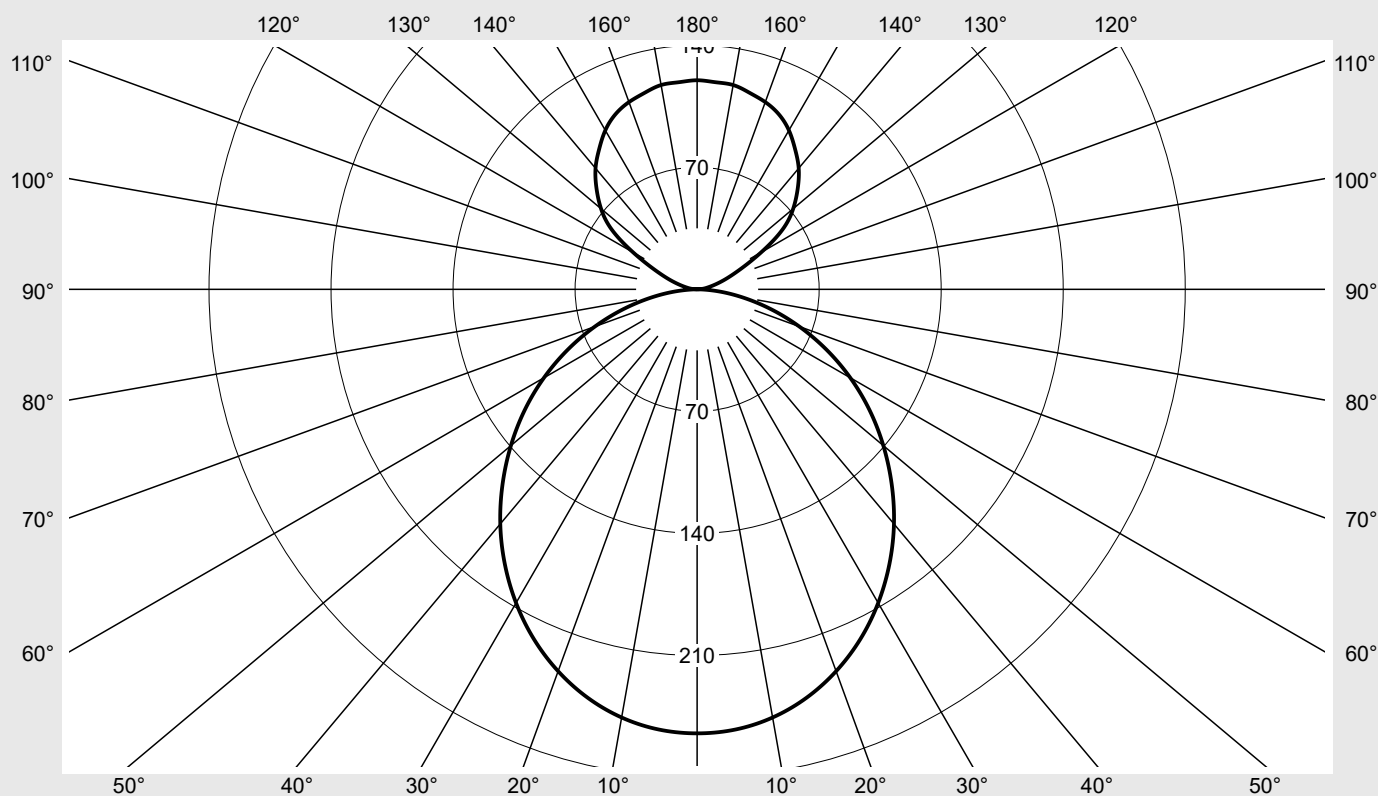
Controlgear ECG-DALI

Rated values Net luminous flux = 13720 lm
Power consumption = 89.0 W
Luminous efficacy = 154.2 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	15.7	16.8	16.4	17.6	18.5	15.7	16.8	16.4	17.6	18.5
	3H	17.1	18.1	17.9	18.9	19.9	17.1	18.1	17.9	18.9	19.9
	4H	17.7	18.7	18.5	19.5	20.5	17.7	18.7	18.5	19.5	20.5
	6H	18.2	19.1	19.0	19.9	20.9	18.2	19.1	19.0	19.9	20.9
	8H	18.3	19.1	19.1	19.9	20.9	18.3	19.1	19.1	19.9	20.9
	12H	18.4	19.1	19.2	20.0	21.0	18.4	19.1	19.2	20.0	21.0
4H	2H	16.3	17.2	17.1	18.0	19.0	16.3	17.2	17.1	18.0	19.0
	3H	17.9	18.7	18.8	19.6	20.6	17.9	18.7	18.8	19.6	20.6
	4H	18.7	19.4	19.5	20.2	21.2	18.7	19.4	19.5	20.2	21.2
	6H	19.2	19.9	20.1	20.7	21.8	19.2	19.9	20.1	20.7	21.8
	8H	19.3	19.9	20.2	20.8	21.9	19.3	19.9	20.2	20.8	21.9
	12H	19.5	20.0	20.4	20.9	22.0	19.5	20.0	20.4	20.9	22.0
8H	4H	18.9	19.4	19.7	20.3	21.4	18.9	19.4	19.7	20.3	21.4
	6H	19.5	20.0	20.4	20.9	22.0	19.5	20.0	20.4	20.9	22.0
	8H	19.8	20.2	20.7	21.1	22.2	19.8	20.2	20.7	21.1	22.2
	12H	20.0	20.4	20.9	21.3	22.4	20.0	20.4	20.9	21.3	22.4
12H	4H	18.9	19.4	19.8	20.3	21.4	18.9	19.4	19.8	20.3	21.4
	6H	19.7	20.1	20.5	20.9	22.0	19.7	20.1	20.5	20.9	22.0
	8H	19.9	20.3	20.8	21.2	22.3	19.9	20.3	20.8	21.2	22.3

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°	4966.3
50°	4827.7
55°	4684.3
60°	4515.7
65°	4310.9
70°	4058.8
75°	3756.3
80°	3371.4
85°	2880.1

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Luminance values in cd/m²

γ 65°

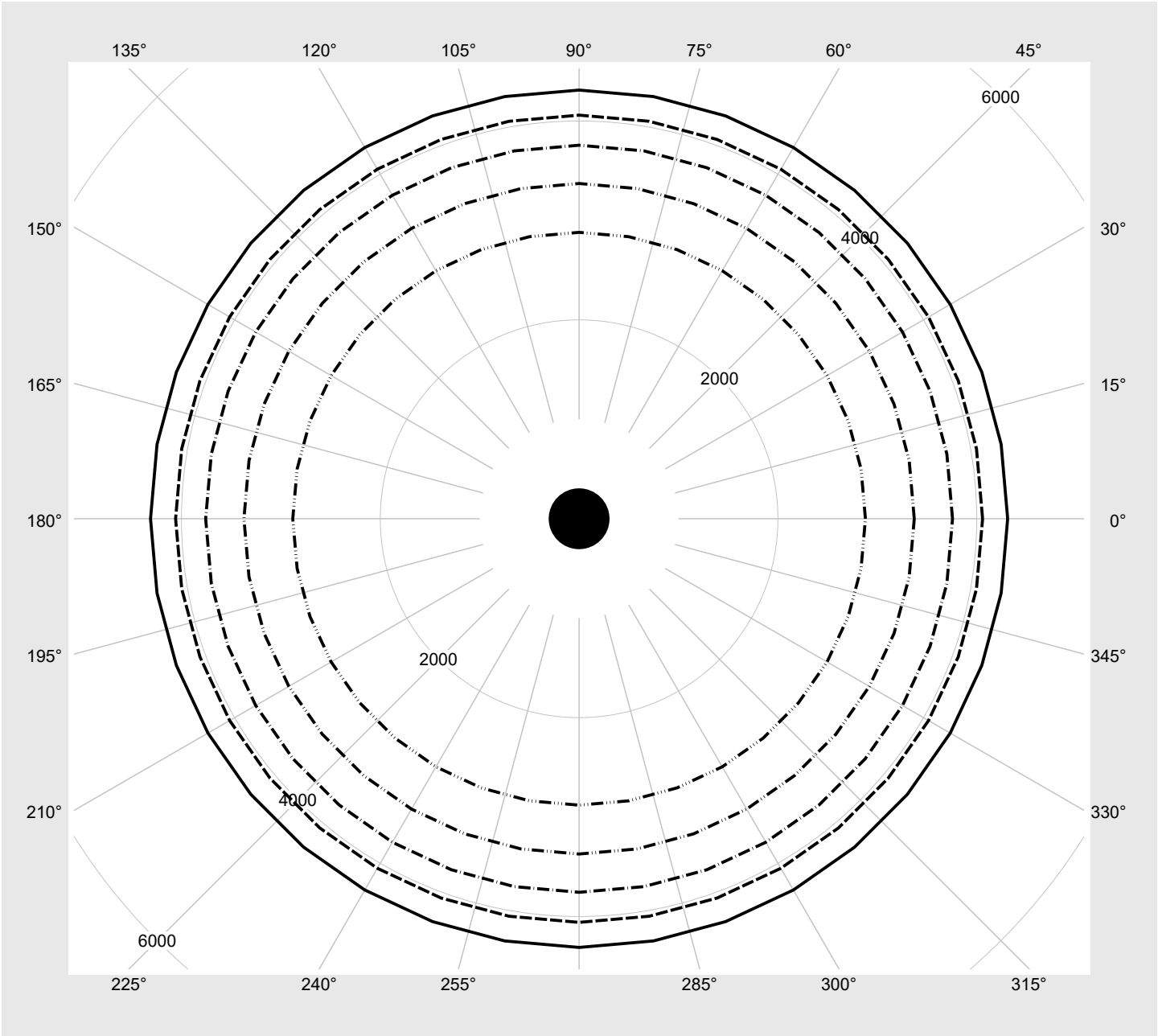
γ 70°

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	13720	89.0
95	241	252	13024	84.6
90	228	250	12327	80.1
85	216	248	11682	75.9
80	203	246	10982	71.4
75	190	243	10279	66.9
70	178	241	9629	62.8
65	165	238	8924	58.4
60	152	235	8216	53.9
55	140	232	7563	49.8
50	127	229	6854	45.5
45	115	225	6196	41.4
40	102	221	5484	37.0
35	90	216	4825	33.0
30	77	210	4111	28.9
25	65	204	3449	25.0
20	52	196	2732	20.5
15	40	186	2068	16.2
10	27	172	1348	11.4
5	15	150	682	7.0
2	8	127	292	4.5