

Photometric test report

Family
Silica® 21 round M

Order number: 51ME31DB3NSA
EAN: 4069025802811

LP number
60085_2

serial
documentation
20.05.2026



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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

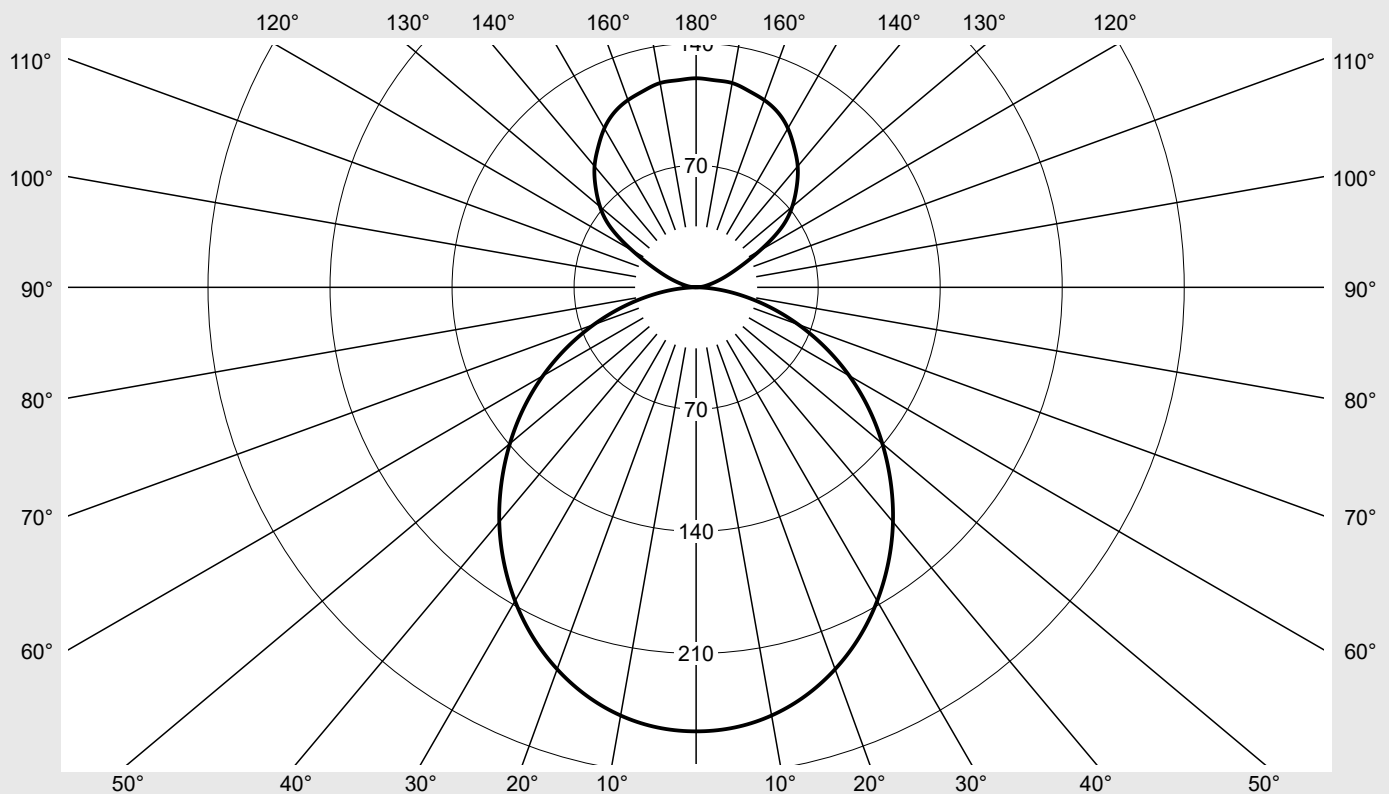
Rated values Net luminous flux = 7390 lm
Power consumption = 48.4 W
Luminous efficacy = 152.7 lm/W

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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	16.4	17.5	17.1	18.3	19.2	16.4	17.5	17.1	18.3	19.2
	3H	17.8	18.8	18.6	19.6	20.6	17.8	18.8	18.6	19.6	20.6
	4H	18.5	19.4	19.2	20.2	21.2	18.5	19.4	19.2	20.2	21.2
	6H	18.9	19.8	19.7	20.6	21.6	18.9	19.8	19.7	20.6	21.6
	8H	19.0	19.8	19.8	20.6	21.6	19.0	19.8	19.8	20.6	21.6
	12H	19.1	19.9	19.9	20.7	21.7	19.1	19.9	19.9	20.7	21.7
4H	2H	17.0	17.9	17.8	18.7	19.7	17.0	17.9	17.8	18.7	19.7
	3H	18.7	19.5	19.5	20.3	21.3	18.7	19.5	19.5	20.3	21.3
	4H	19.4	20.1	20.2	20.9	22.0	19.4	20.1	20.2	20.9	22.0
	6H	20.0	20.6	20.8	21.4	22.5	20.0	20.6	20.8	21.4	22.5
	8H	20.1	20.6	20.9	21.5	22.6	20.1	20.6	20.9	21.5	22.6
	12H	20.2	20.7	21.1	21.6	22.7	20.2	20.7	21.1	21.6	22.7
8H	4H	19.6	20.2	20.5	21.0	22.1	19.6	20.2	20.5	21.0	22.1
	6H	20.2	20.7	21.1	21.6	22.7	20.2	20.7	21.1	21.6	22.7
	8H	20.5	21.0	21.4	21.8	23.0	20.5	21.0	21.4	21.8	23.0
	12H	20.8	21.1	21.7	22.0	23.1	20.8	21.1	21.7	22.0	23.1
12H	4H	19.6	20.2	20.5	21.0	22.1	19.6	20.2	20.5	21.0	22.1
	6H	20.4	20.8	21.3	21.7	22.8	20.4	20.8	21.3	21.7	22.8
	8H	20.7	21.0	21.6	21.9	23.0	20.7	21.0	21.6	21.9	23.0

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 586
C-planes	0°		
γ	Luminance in cd/m²		
45°	6115.0		
50°	5944.4		
55°	5767.8		
60°	5560.2		
65°	5308.0		
70°	4997.6		
75°	4625.1		
80°	4151.2		
85°	3546.3		

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Luminance values in cd/m²

γ 65°

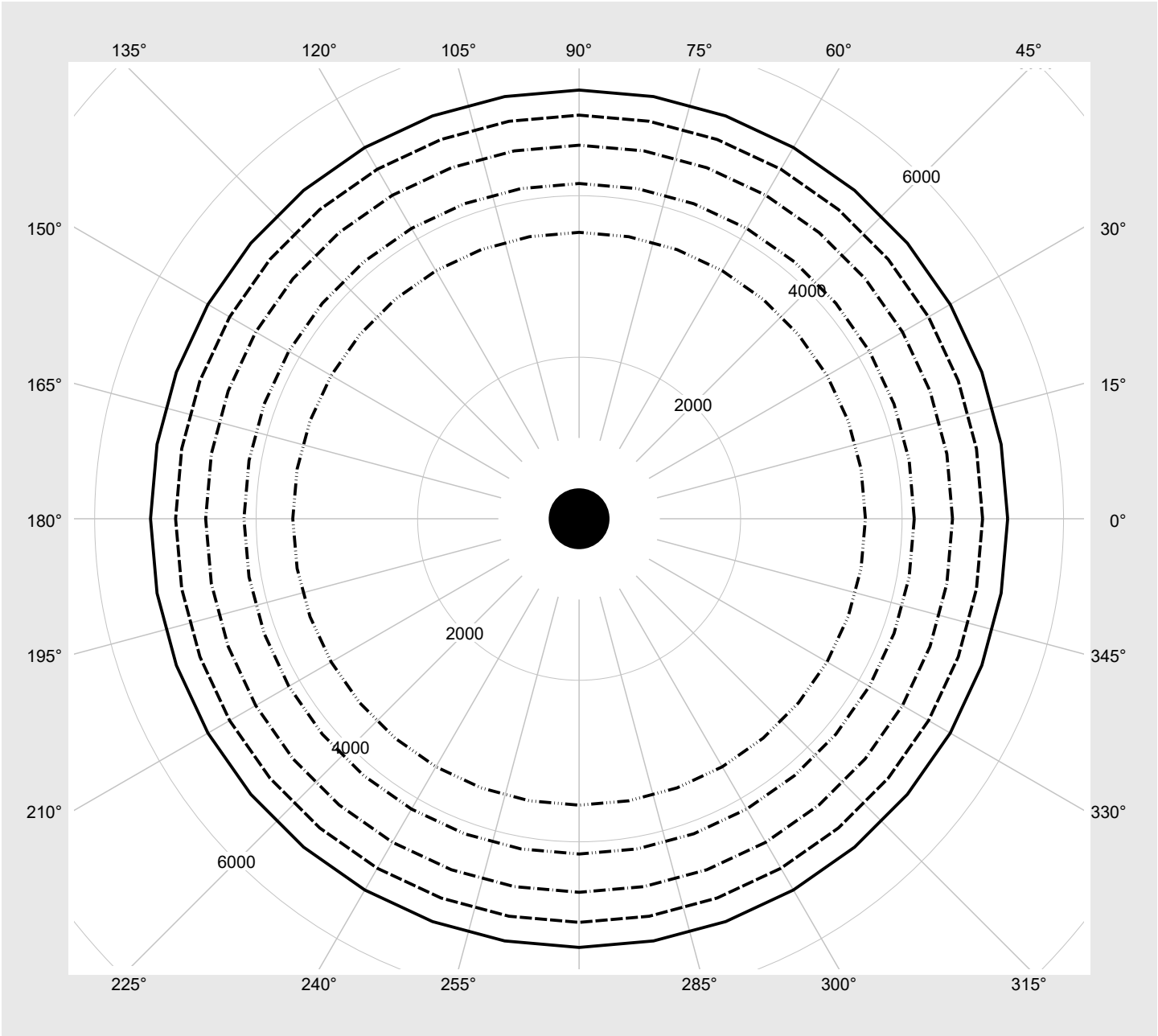
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table environmental temperature: 25°C		

Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	7390	48.4
95	241	252	7016	45.9
90	228	250	6640	43.5
85	216	248	6293	41.2
80	203	246	5917	38.9
75	190	243	5540	36.6
70	177	241	5162	34.3
65	165	238	4812	32.2
60	152	235	4432	29.8
55	139	232	4051	27.3
50	127	229	3698	25.1
45	114	225	3316	22.6
40	102	221	2962	20.4
35	89	216	2578	18.0
30	77	210	2222	15.7
25	64	204	1837	13.4
20	52	196	1480	11.2
15	40	186	1123	8.9
10	27	172	735	6.0
5	15	150	377	2.9
2	7	122	137	1.0