

Photometric test report

Family
Silica® 21 round M

Order number: 51MF31DB3NSA
EAN: 4069025807434

LP number
60085_4

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

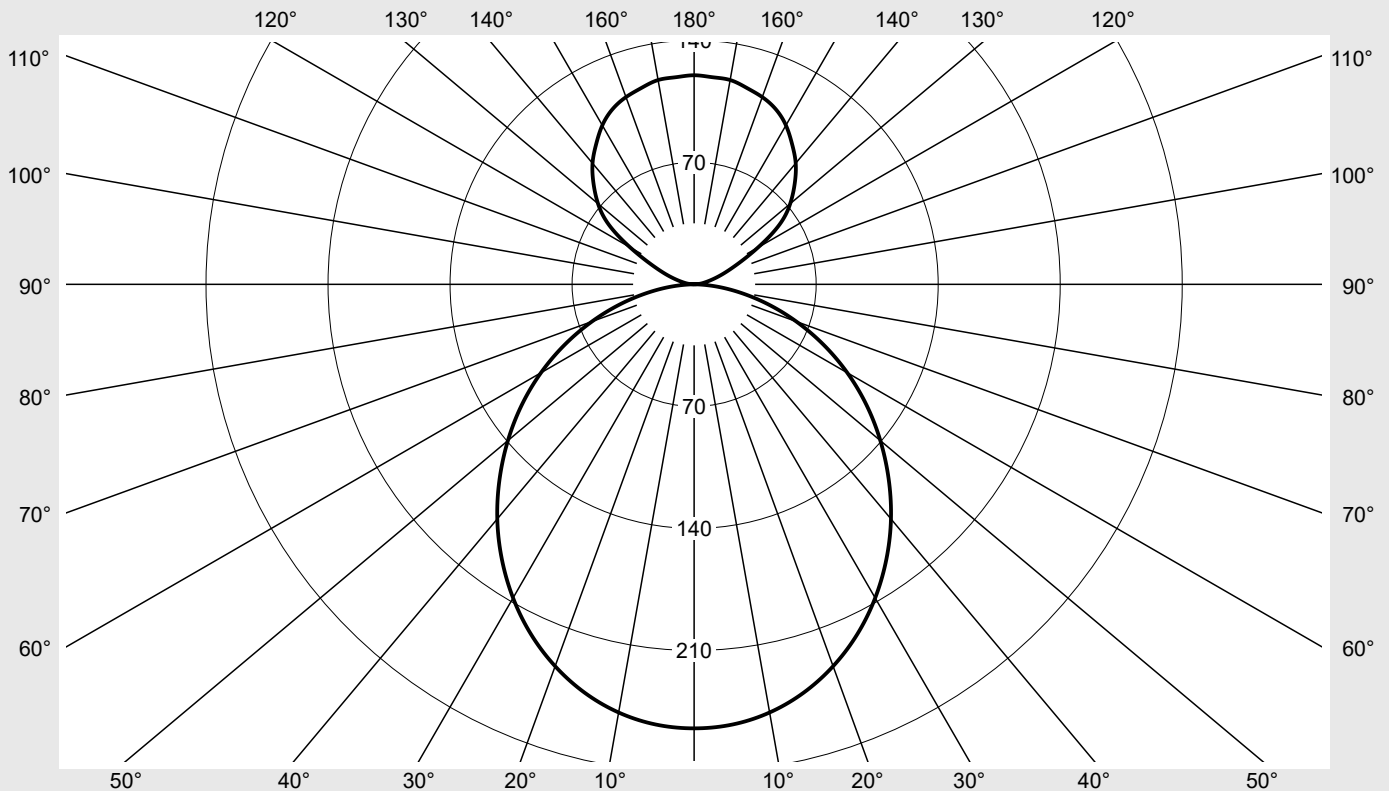
Rated values Net luminous flux = 7390 lm
Power consumption = 44.3 W
Luminous efficacy = 166.8 lm/W

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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
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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°

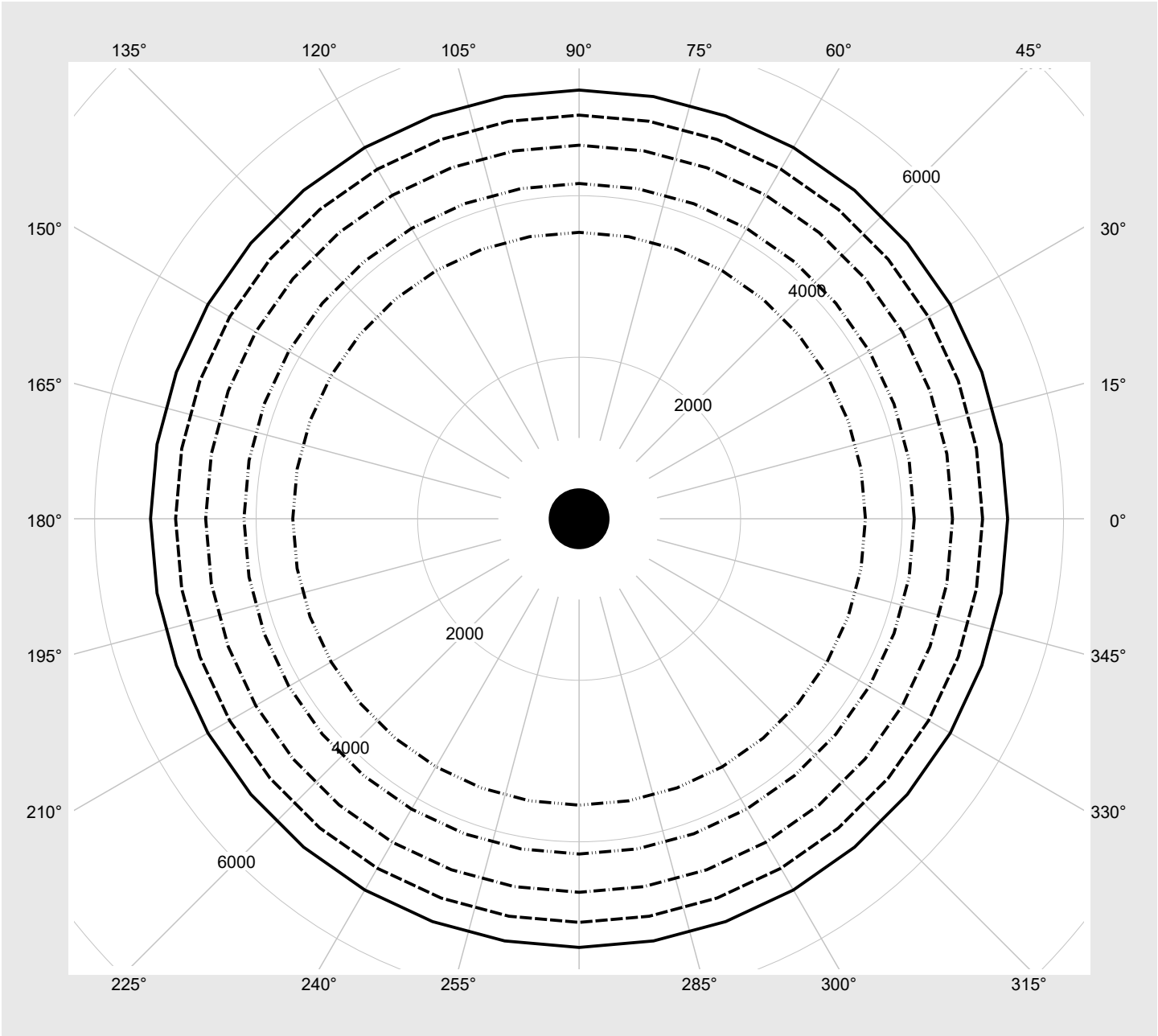
γ 70°

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	44.3
95	241	252	7018	42.0
90	228	250	6645	39.8
85	215	248	6271	37.7
80	203	246	5925	35.7
75	190	243	5550	33.6
70	177	241	5172	31.4
65	164	238	4794	29.2
60	152	235	4443	27.1
55	139	232	4062	24.9
50	127	229	3710	22.9
45	114	225	3326	20.6
40	101	220	2943	18.4
35	89	216	2587	16.3
30	77	210	2231	14.3
25	64	204	1844	12.2
20	52	196	1486	10.2
15	39	185	1097	7.9
10	27	172	736	5.3
5	15	150	375	2.5
2	7	122	134	0.9