

Photometric test report

Family
Silica® 21 round M

Order number: 51MF31DB4NSA
EAN: 4069025807496

LP number
60085_5

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

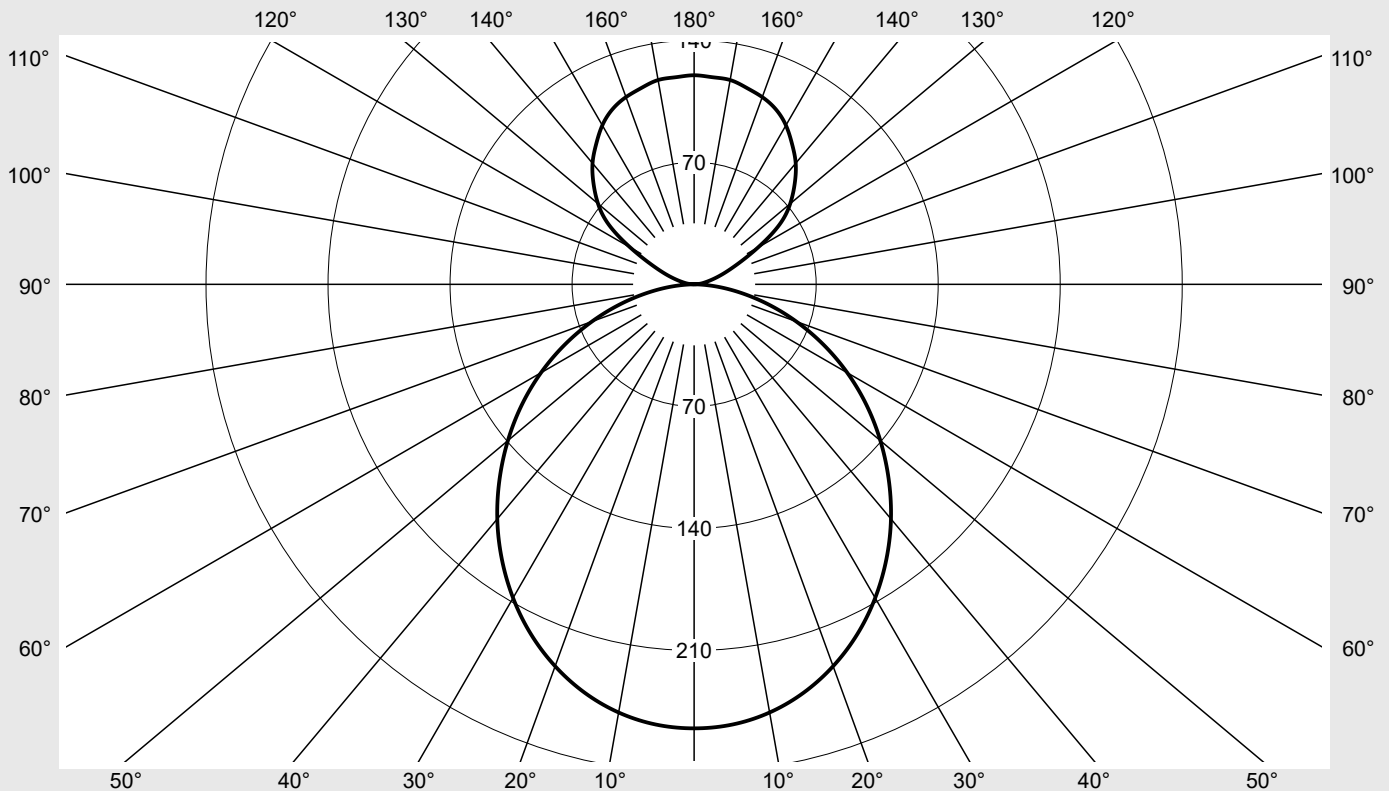
Rated values Net luminous flux = 7390 lm
Power consumption = 42.3 W
Luminous efficacy = 174.7 lm/W

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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
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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°

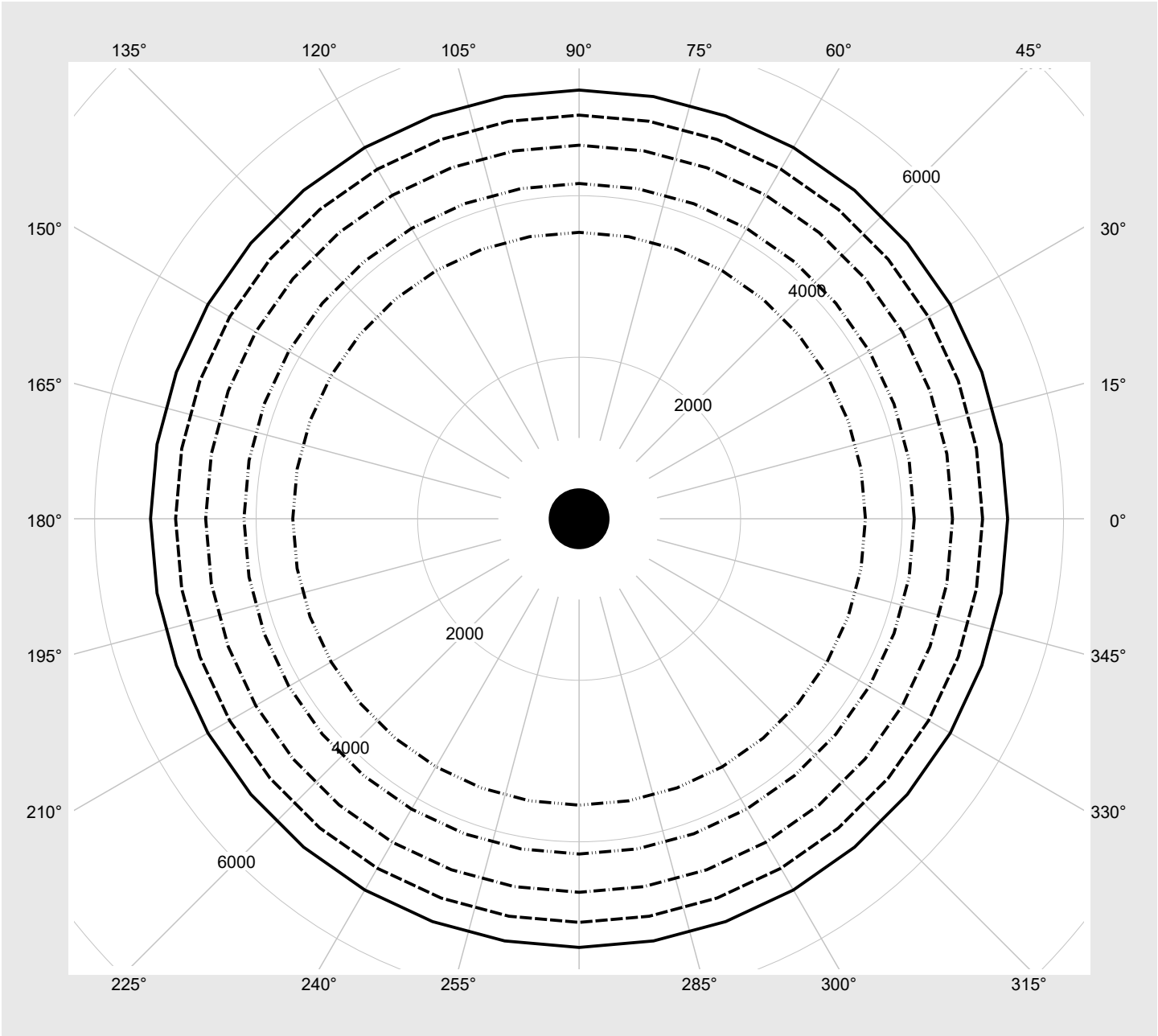
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	7390	42.3
95	241	252	7016	40.2
90	228	250	6641	38.2
85	216	248	6294	36.3
80	203	246	5918	34.3
75	190	243	5539	32.1
70	177	241	5160	30.1
65	165	238	4809	28.1
60	152	235	4428	26.0
55	140	232	4075	24.0
50	127	229	3691	21.8
45	115	225	3336	19.9
40	102	221	2950	17.8
35	90	216	2593	15.8
30	77	210	2205	13.8
25	65	204	1846	11.9
20	53	197	1486	10.0
15	40	186	1095	7.7
10	28	173	732	5.2
5	16	153	369	2.6
2	8	127	127	1.0