

Photometric test report

Family
Silica® 21 round M

Order number: 51MF31DBDNSA
EAN: 4069025807557

LP number
60085_6

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 ≥ 90

Controlgear ECG-DALI

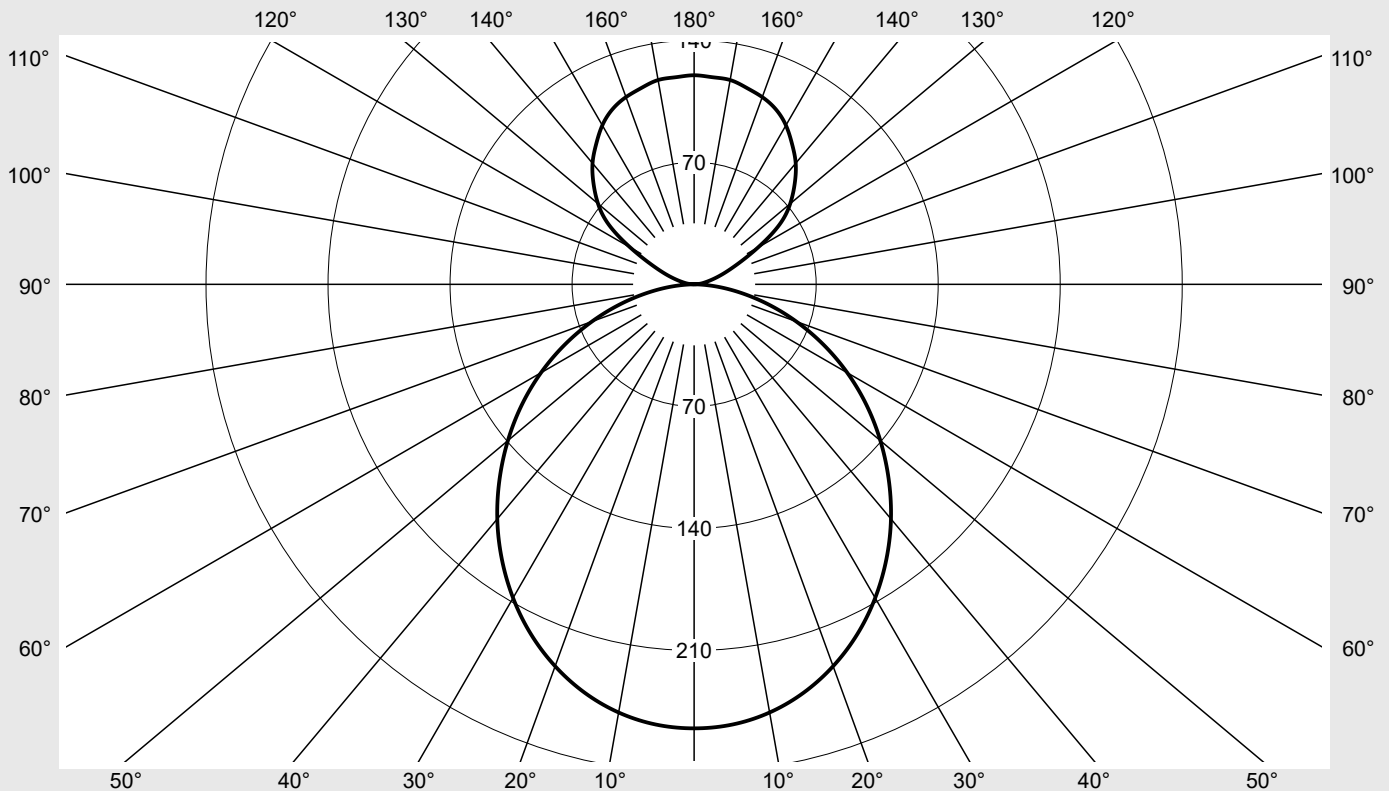
Rated values Net luminous flux = 7390 lm
Power consumption = 46.5 W
Luminous efficacy = 158.9 lm/W

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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°

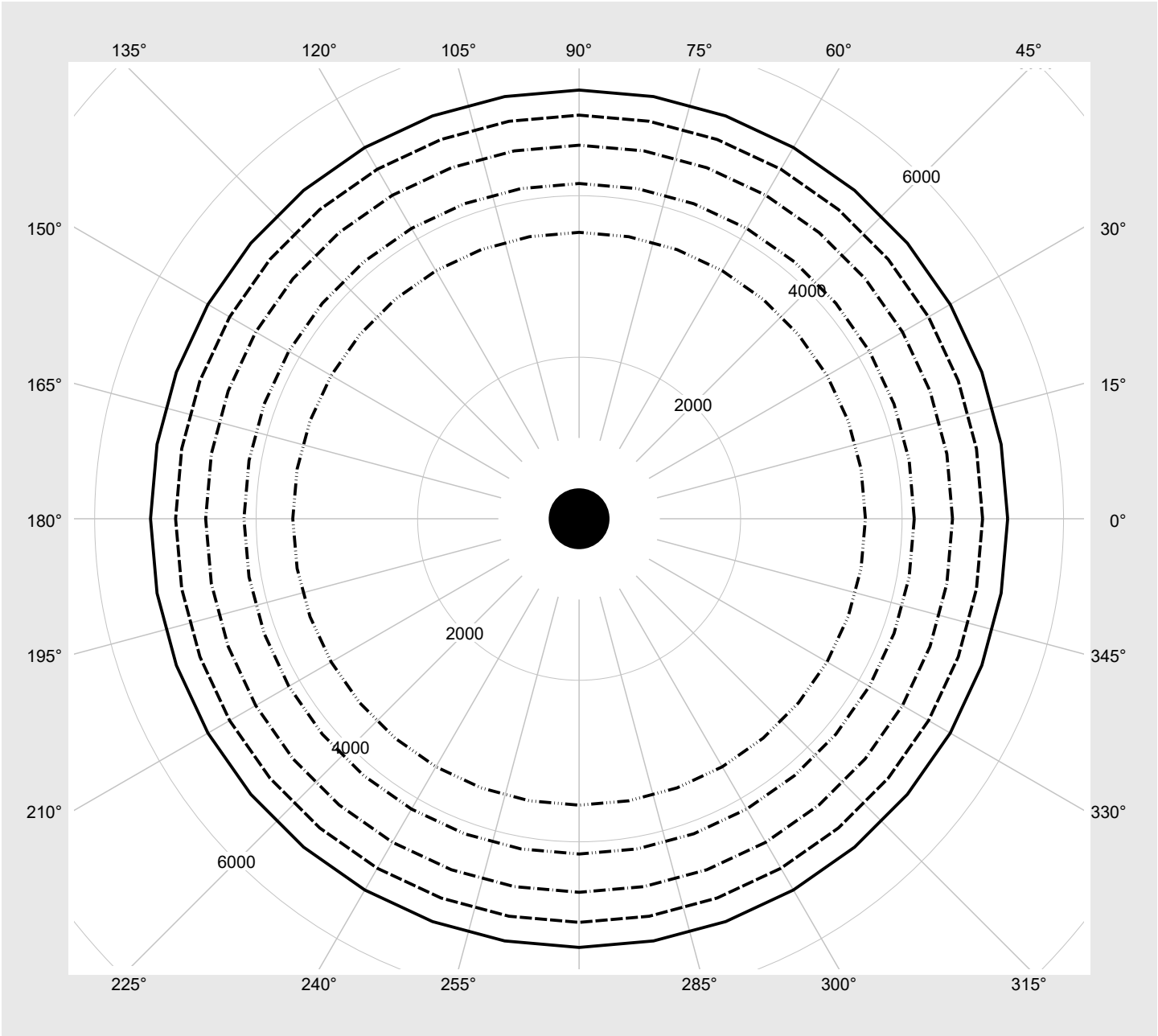
γ 70°

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	46.5
95	241	252	7024	44.1
90	228	250	6657	41.7
85	215	248	6290	39.5
80	202	246	5921	37.2
75	189	243	5550	34.9
70	176	241	5178	32.6
65	163	238	4803	30.3
60	150	235	4427	28.0
55	137	231	4050	25.7
50	125	228	3700	23.5
45	112	224	3320	21.1
40	100	220	2968	19.0
35	87	215	2585	16.6
30	75	209	2230	14.5
25	62	202	1844	12.2
20	50	194	1487	10.2
15	37	183	1098	7.8
10	25	169	738	5.0
5	13	145	376	2.2
3	7	122	196	1.0