

Photometric test report

Family
Silica® 21 round M

Order number: 51ME31DB4NSA
EAN: 4069025802873

LP number
60085_3

serial
documentation
20.05.2026

siteco



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

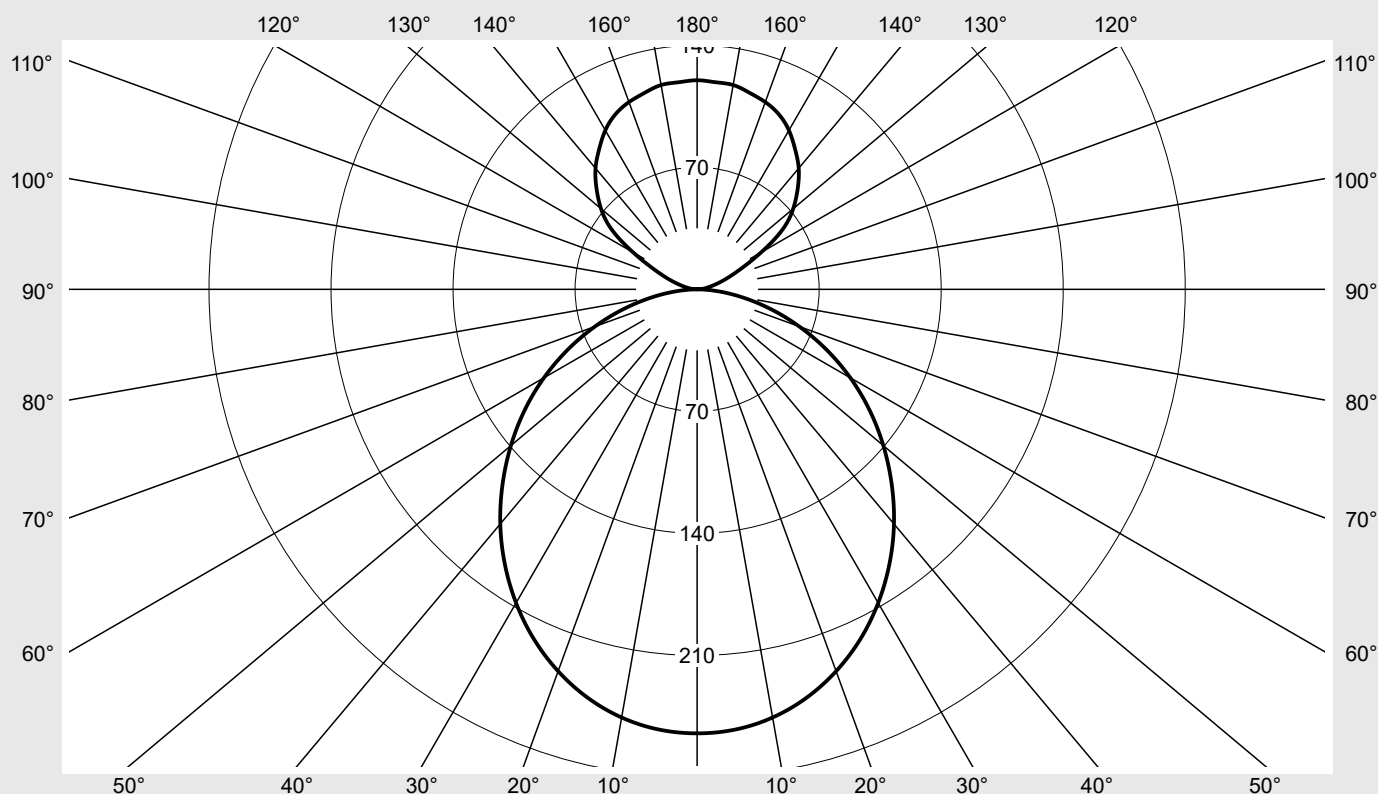
Power consumption = 46.2 W

Luminous efficacy = 160 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									sīTeco	
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°

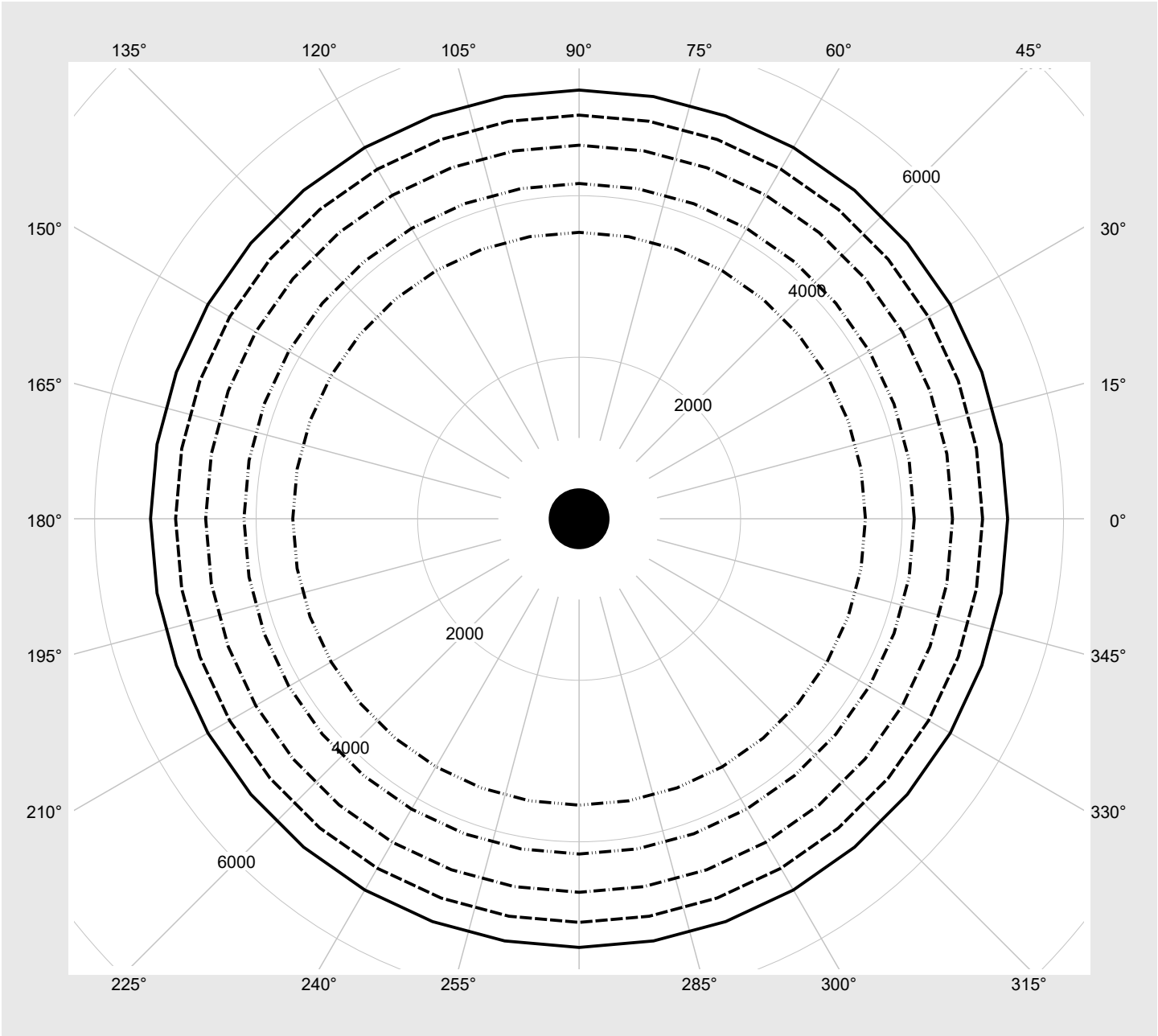
γ 70°

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	46.2
95	241	252	7014	43.9
90	228	250	6637	41.5
85	216	248	6291	39.5
80	203	246	5913	37.3
75	190	243	5535	35.1
70	178	241	5185	33.0
65	165	238	4805	30.7
60	152	235	4424	28.5
55	140	232	4073	26.3
50	127	229	3690	24.0
45	115	225	3337	21.9
40	102	221	2954	19.6
35	90	216	2600	17.4
30	77	210	2215	15.1
25	65	204	1859	13.1
20	52	196	1474	10.8
15	40	186	1117	8.6
10	27	172	730	5.7
5	15	150	372	2.8
2	7	122	133	1.0