

Photometric test report

Family
Silica® 21 round S

Order number: 51ME31DA4NBA
EAN: 4069025800435

LP number
60078_3

serial
documentation
20.05.2026

siteco



Version

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

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 3630 lm

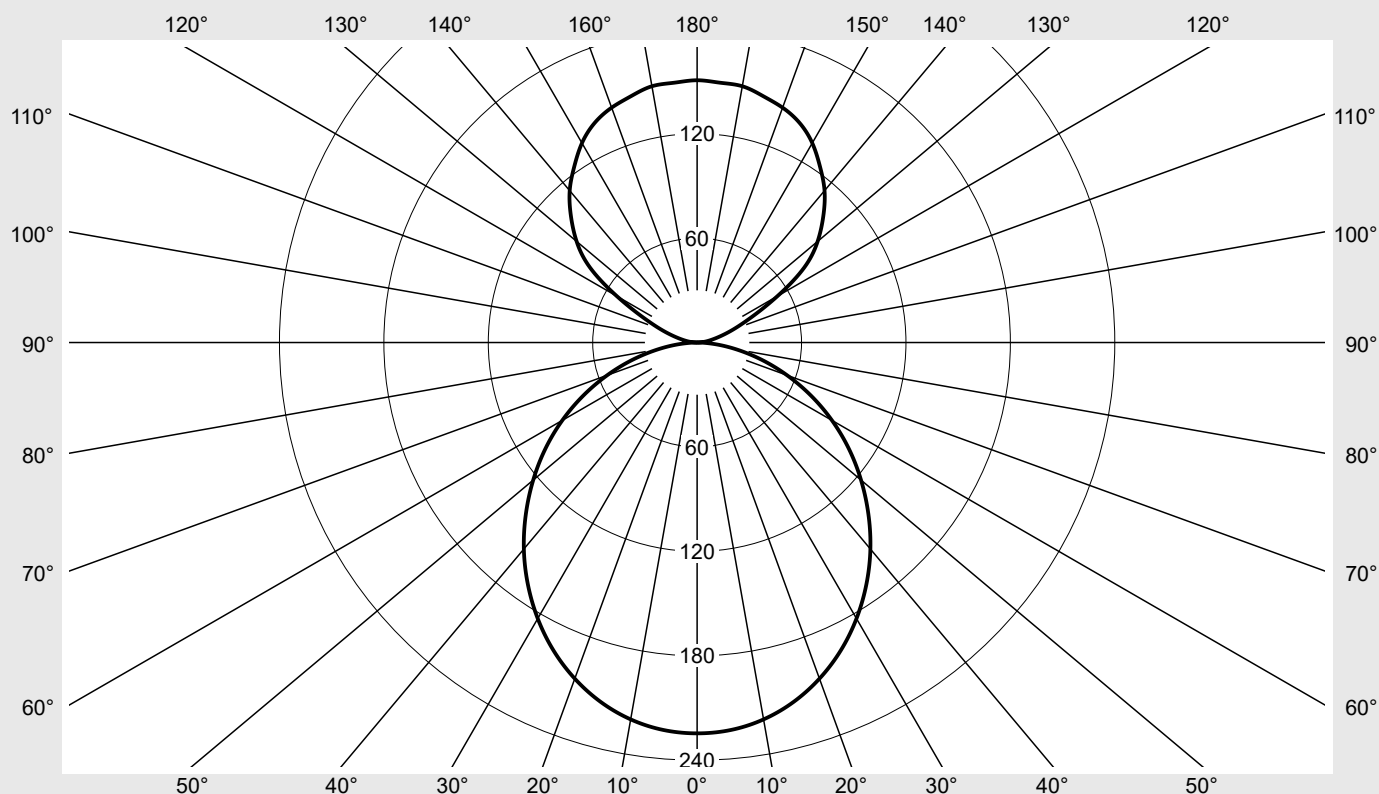
Power consumption = 26.3 W

Luminous efficacy = 138 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 225 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=60 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 60.4%
 ϕ_o 39.6%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities Maximum luminous intensity		sITeco

C- planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	224.6	1.3	1.3
5°	223.5	10.7	12.0
10°	219.9	20.9	32.9
15°	213.9	30.3	63.3
20°	205.5	38.5	101.8
25°	195.3	45.2	147.1
30°	183.2	50.2	197.3
35°	169.6	53.3	250.6
40°	154.9	54.6	305.1
45°	139.1	53.9	359.1
50°	123.0	51.6	410.7
55°	106.5	47.8	458.5
60°	89.5	42.5	501.0
65°	72.2	35.9	536.8
70°	55.0	28.3	565.2
75°	38.5	20.4	585.6
80°	23.2	12.5	598.1
85°	9.9	5.4	603.5
90°	0.8	0.5	604.0
95°	3.4	1.9	605.8
100°	7.7	4.2	610.0
105°	13.6	7.2	617.2
110°	22.3	11.5	628.7
115°	34.5	17.1	645.9
120°	53.3	25.3	671.1
125°	75.2	33.8	704.9
130°	90.4	38.0	742.9
135°	102.5	39.7	782.6
140°	113.9	40.1	822.7
145°	123.2	38.7	861.5
150°	132.3	36.3	897.7
155°	139.3	32.3	930.0
160°	143.6	26.9	956.9
165°	146.6	20.8	977.7
170°	149.5	14.2	991.9
175°	149.9	7.2	999.1
180°	150.7	0.9	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	15.8	16.8	16.6	17.7	18.7	15.8	16.8	16.6	17.7	18.7	
	3H	17.2	18.1	18.1	19.0	20.1	17.2	18.1	18.1	19.0	20.1	
	4H	17.8	18.7	18.7	19.6	20.7	17.8	18.7	18.7	19.6	20.7	
	6H	18.3	19.1	19.2	20.0	21.1	18.3	19.1	19.2	20.0	21.1	
	8H	18.3	19.1	19.2	20.0	21.1	18.3	19.1	19.2	20.0	21.1	
	12H	18.4	19.1	19.3	20.0	21.2	18.4	19.1	19.3	20.0	21.2	
4H	2H	16.4	17.2	17.2	18.1	19.2	16.4	17.2	17.2	18.1	19.2	
	3H	18.0	18.8	18.9	19.7	20.8	18.0	18.8	18.9	19.7	20.8	
	4H	18.7	19.4	19.6	20.3	21.5	18.7	19.4	19.6	20.3	21.5	
	6H	19.3	19.9	20.2	20.8	22.0	19.3	19.9	20.2	20.8	22.0	
	8H	19.4	19.9	20.3	20.9	22.1	19.4	19.9	20.3	20.9	22.1	
	12H	19.6	20.0	20.5	21.0	22.2	19.6	20.0	20.5	21.0	22.2	
8H	4H	18.9	19.4	19.9	20.4	21.6	18.9	19.4	19.9	20.4	21.6	
	6H	19.6	20.0	20.5	20.9	22.2	19.6	20.0	20.5	20.9	22.2	
	8H	19.9	20.2	20.8	21.2	22.4	19.9	20.2	20.8	21.2	22.4	
	12H	20.1	20.4	21.1	21.4	22.6	20.1	20.4	21.1	21.4	22.6	
12H	4H	19.0	19.4	19.9	20.4	21.6	19.0	19.4	19.9	20.4	21.6	
	6H	19.7	20.1	20.7	21.0	22.2	19.7	20.1	20.7	21.0	22.2	
	8H	20.0	20.3	21.0	21.3	22.5	20.0	20.3	21.0	21.3	22.5	

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 386
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C-planes		0°
γ	Luminance in cd/m²	
45°	6104.0	
50°	5933.7	
55°	5757.4	
60°	5550.2	
65°	5298.5	
70°	4988.7	
75°	4616.8	
80°	4143.7	
85°	3539.9	

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Luminance values in cd/m²

γ 65°

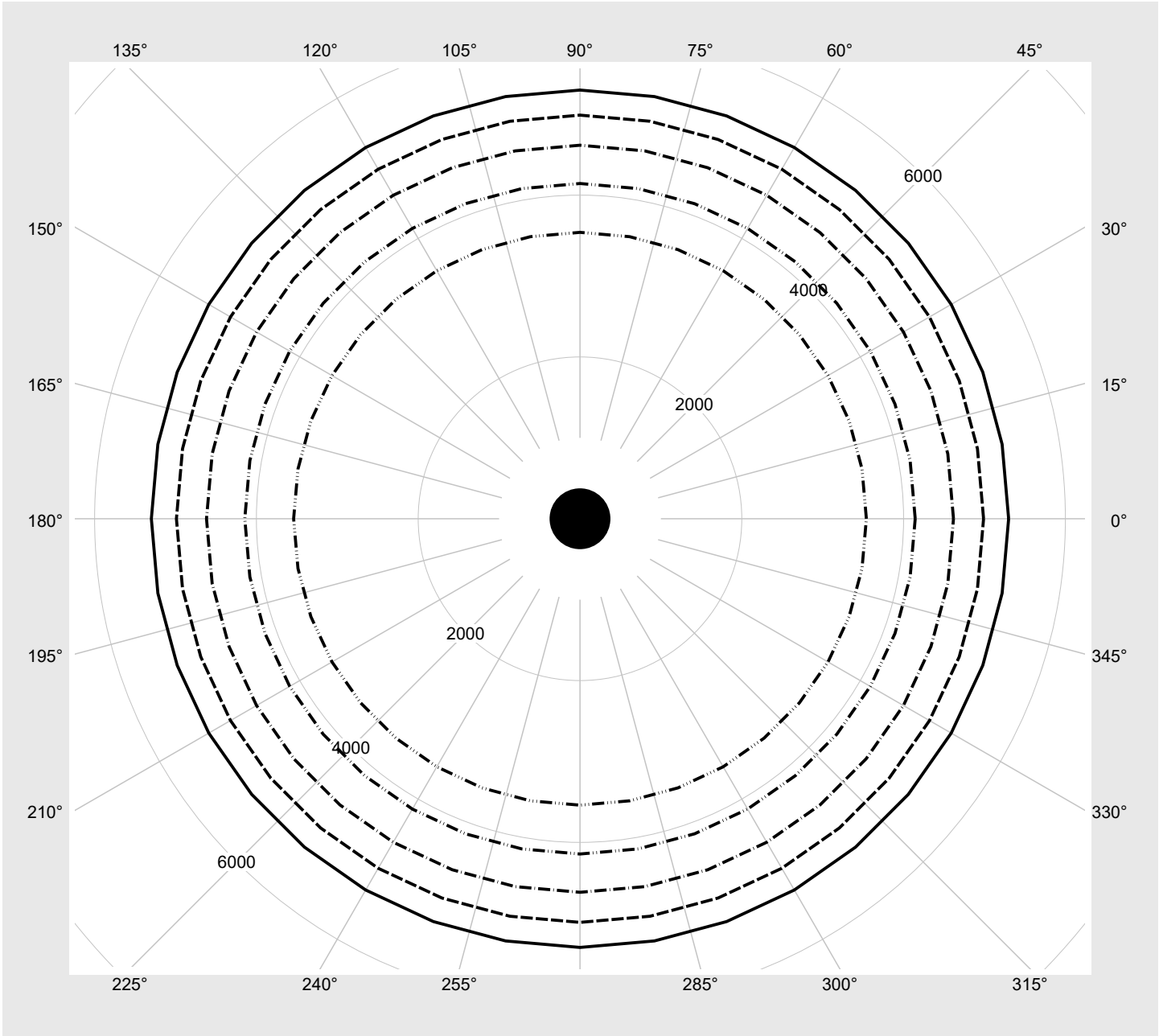
γ 70°

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	3630	26.3
95	241	252	3446	25.0
90	228	250	3263	23.7
85	215	248	3079	22.3
80	203	246	2909	21.1
75	190	243	2724	19.9
70	177	241	2538	18.6
65	165	238	2367	17.4
60	152	235	2180	16.1
55	139	232	1993	14.8
50	127	229	1820	13.6
45	114	225	1632	12.4
40	102	221	1458	11.2
35	89	216	1270	9.9
30	77	210	1096	8.6
25	64	204	907	7.3
20	52	196	732	6.2
15	39	185	542	4.8
10	27	172	367	3.6
5	14	148	176	2.1
2	8	127	88	1.3