

Photometric test report

Family
Silica® 21 round S

Order number: 51ME31DA3NWA
EAN: 4069025800404

LP number
60077_2

serial
documentation
20.05.2026

siteco



Version

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

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 3290 lm

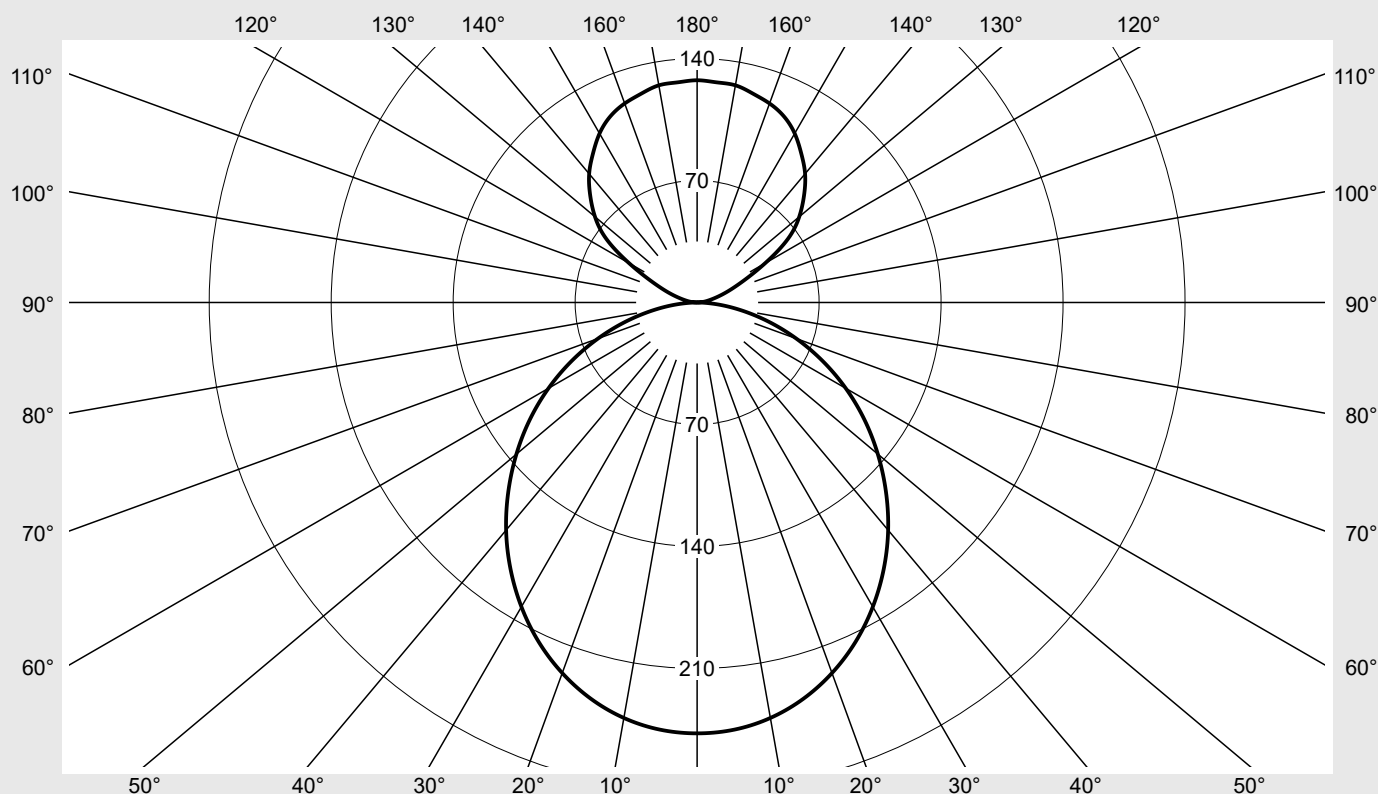
Power consumption = 22.7 W

Luminous efficacy = 144.9 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 247 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=66 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 66.5%
 ϕ_o 33.5%

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°	247.3	1.5	1.5
5°	246.0	11.8	13.2
10°	242.1	23.0	36.3
15°	235.5	33.4	69.7
20°	226.3	42.4	112.1
25°	215.0	49.8	161.9
30°	201.7	55.3	217.2
35°	186.7	58.7	275.9
40°	170.5	60.1	336.0
45°	153.2	59.4	395.3
50°	135.4	56.8	452.2
55°	117.2	52.6	504.8
60°	98.5	46.8	551.6
65°	79.5	39.5	591.1
70°	60.6	31.2	622.3
75°	42.4	22.5	644.7
80°	25.5	13.8	658.5
85°	11.0	6.0	664.5
90°	0.7	0.4	664.9
95°	2.9	1.6	666.5
100°	6.5	3.5	670.0
105°	11.5	6.1	676.1
110°	18.9	9.7	685.8
115°	29.2	14.5	700.3
120°	45.1	21.4	721.7
125°	63.6	28.6	750.3
130°	76.5	32.1	782.4
135°	86.8	33.6	816.0
140°	96.4	34.0	850.0
145°	104.2	32.8	882.8
150°	112.0	30.7	913.5
155°	117.8	27.3	940.8
160°	121.5	22.8	963.5
165°	124.0	17.6	981.1
170°	126.5	12.0	993.2
175°	126.8	6.1	999.2
180°	127.5	0.8	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	16.2	17.4	17.0	18.1	19.1	16.2	17.4	17.0	18.1	19.1
	3H	17.7	18.7	18.5	19.5	20.5	17.7	18.7	18.5	19.5	20.5
	4H	18.3	19.2	19.1	20.0	21.1	18.3	19.2	19.1	20.0	21.1
	6H	18.7	19.6	19.6	20.4	21.5	18.7	19.6	19.6	20.4	21.5
	8H	18.8	19.6	19.6	20.4	21.5	18.8	19.6	19.6	20.4	21.5
	12H	18.9	19.7	19.8	20.5	21.6	18.9	19.7	19.8	20.5	21.6
4H	2H	16.8	17.8	17.6	18.6	19.6	16.8	17.8	17.6	18.6	19.6
	3H	18.5	19.3	19.3	20.1	21.2	18.5	19.3	19.3	20.1	21.2
	4H	19.2	19.9	20.1	20.8	21.8	19.2	19.9	20.1	20.8	21.8
	6H	19.8	20.4	20.6	21.3	22.3	19.8	20.4	20.6	21.3	22.3
	8H	19.9	20.4	20.8	21.3	22.4	19.9	20.4	20.8	21.3	22.4
	12H	20.1	20.5	20.9	21.4	22.6	20.1	20.5	20.9	21.4	22.6
8H	4H	19.4	20.0	20.3	20.9	22.0	19.4	20.0	20.3	20.9	22.0
	6H	20.1	20.5	21.0	21.4	22.6	20.1	20.5	21.0	21.4	22.6
	8H	20.4	20.8	21.3	21.7	22.8	20.4	20.8	21.3	21.7	22.8
	12H	20.6	20.9	21.5	21.9	23.0	20.6	20.9	21.5	21.9	23.0
12H	4H	19.5	20.0	20.4	20.9	22.0	19.5	20.0	20.4	20.9	22.0
	6H	20.2	20.6	21.1	21.5	22.6	20.2	20.6	21.1	21.5	22.6
	8H	20.5	20.8	21.4	21.8	22.9	20.5	20.8	21.4	21.8	22.9

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°	6091.2
50°	5921.2
55°	5745.2
60°	5538.5
65°	5287.3
70°	4978.1
75°	4607.2
80°	4135.1
85°	3532.2

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Luminance values in cd/m²

γ 65°

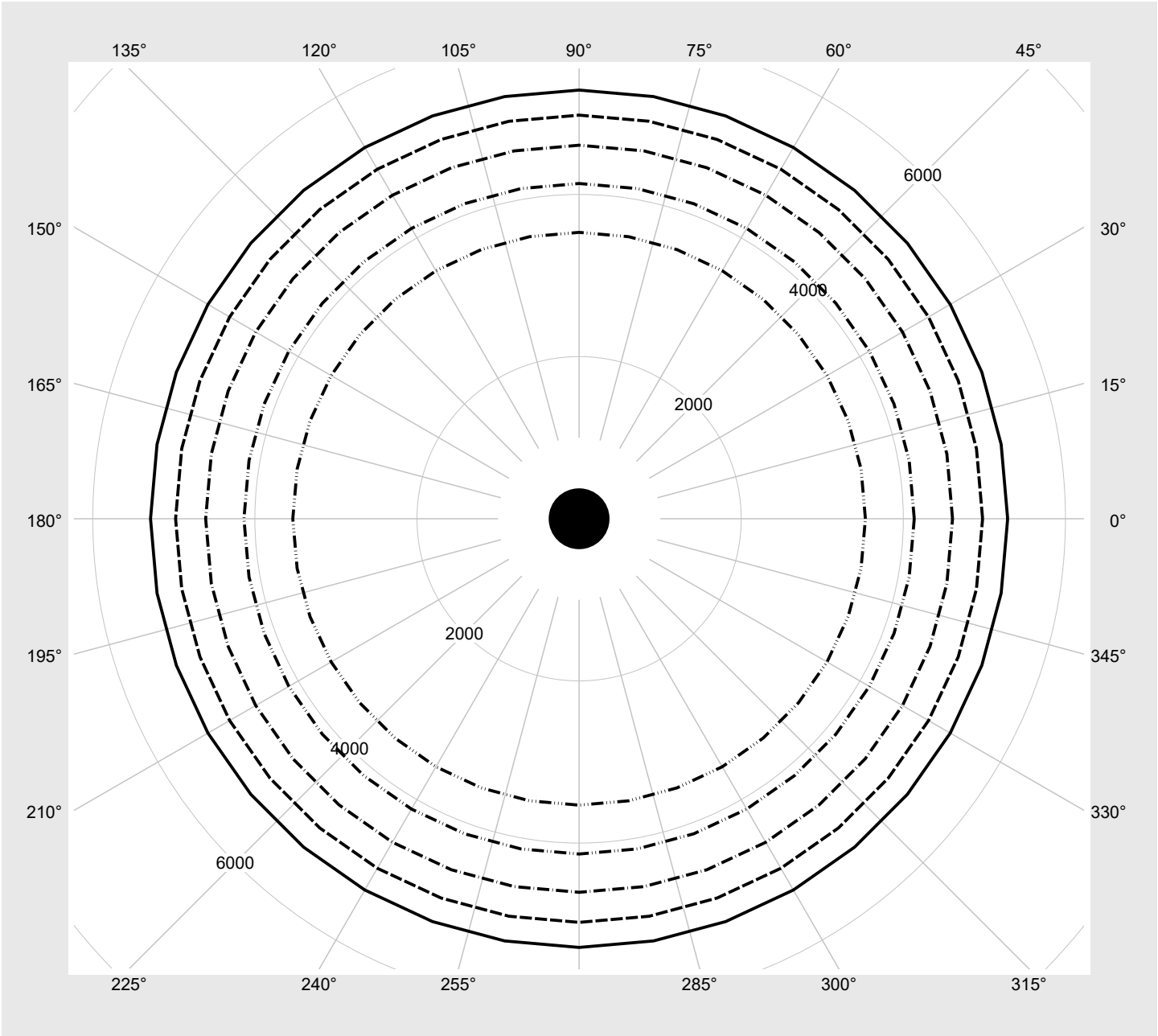
γ 70°

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	3290	22.7
95	241	252	3123	21.6
90	228	250	2957	20.5
85	216	248	2802	19.5
80	203	246	2634	18.4
75	190	243	2467	17.3
70	177	241	2298	16.2
65	165	238	2142	15.2
60	152	235	1973	14.1
55	139	232	1803	13.0
50	127	229	1646	12.0
45	114	225	1476	10.8
40	102	221	1319	9.8
35	89	216	1148	8.6
30	77	210	990	7.6
25	64	204	819	6.5
20	52	196	660	5.5
15	39	185	488	4.3
10	27	172	328	3.2
5	15	150	168	1.9
3	9	132	89	1.3