

Photometric test report

Family
Silica® 21 round S

Order number: 51MF31DAENWA
EAN: 4069025807397

LP number
60077_7



Version

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

Lamps

LED 4000 K | CRI ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 3290 lm

Power consumption = 21.7 W

Luminous efficacy = 151.6 lm/W

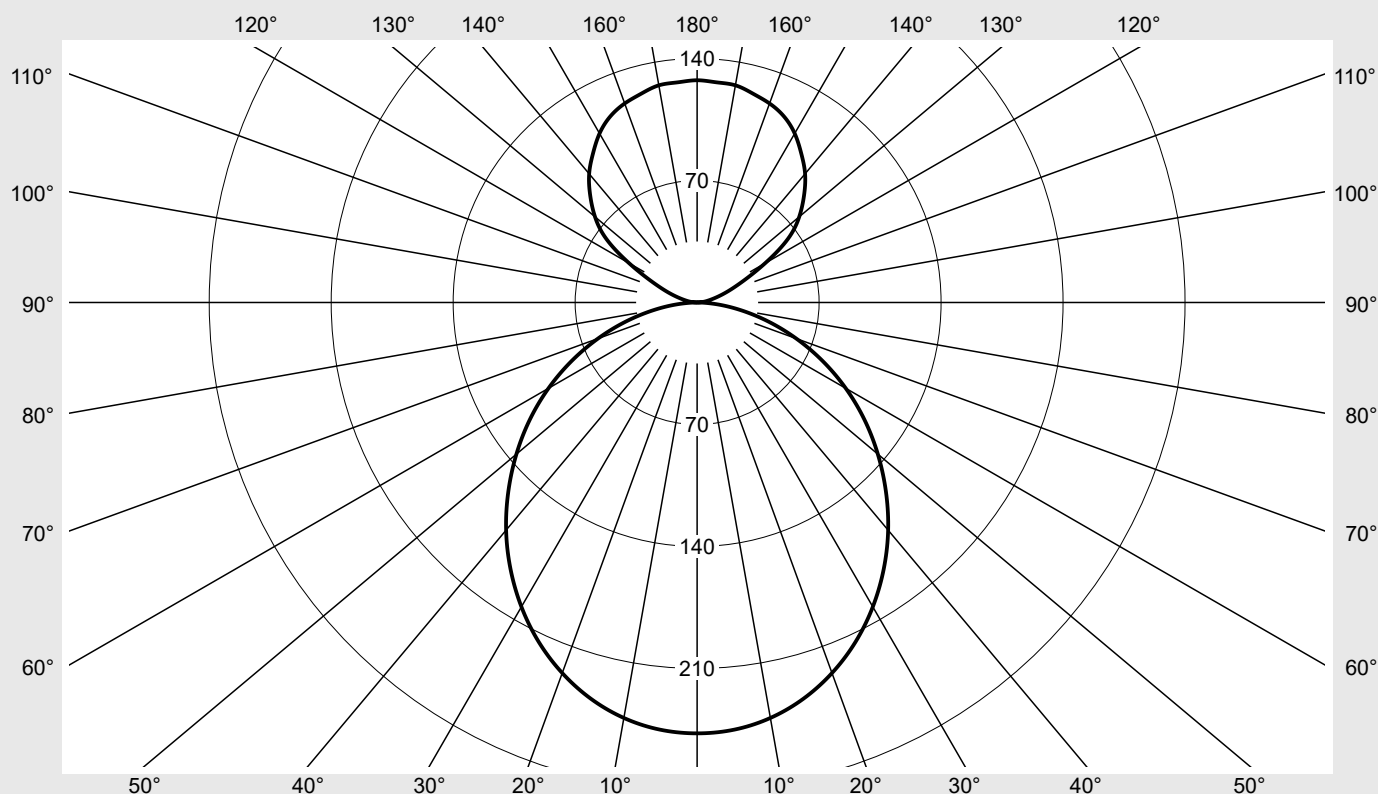
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documentation
20.05.2026

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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

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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°

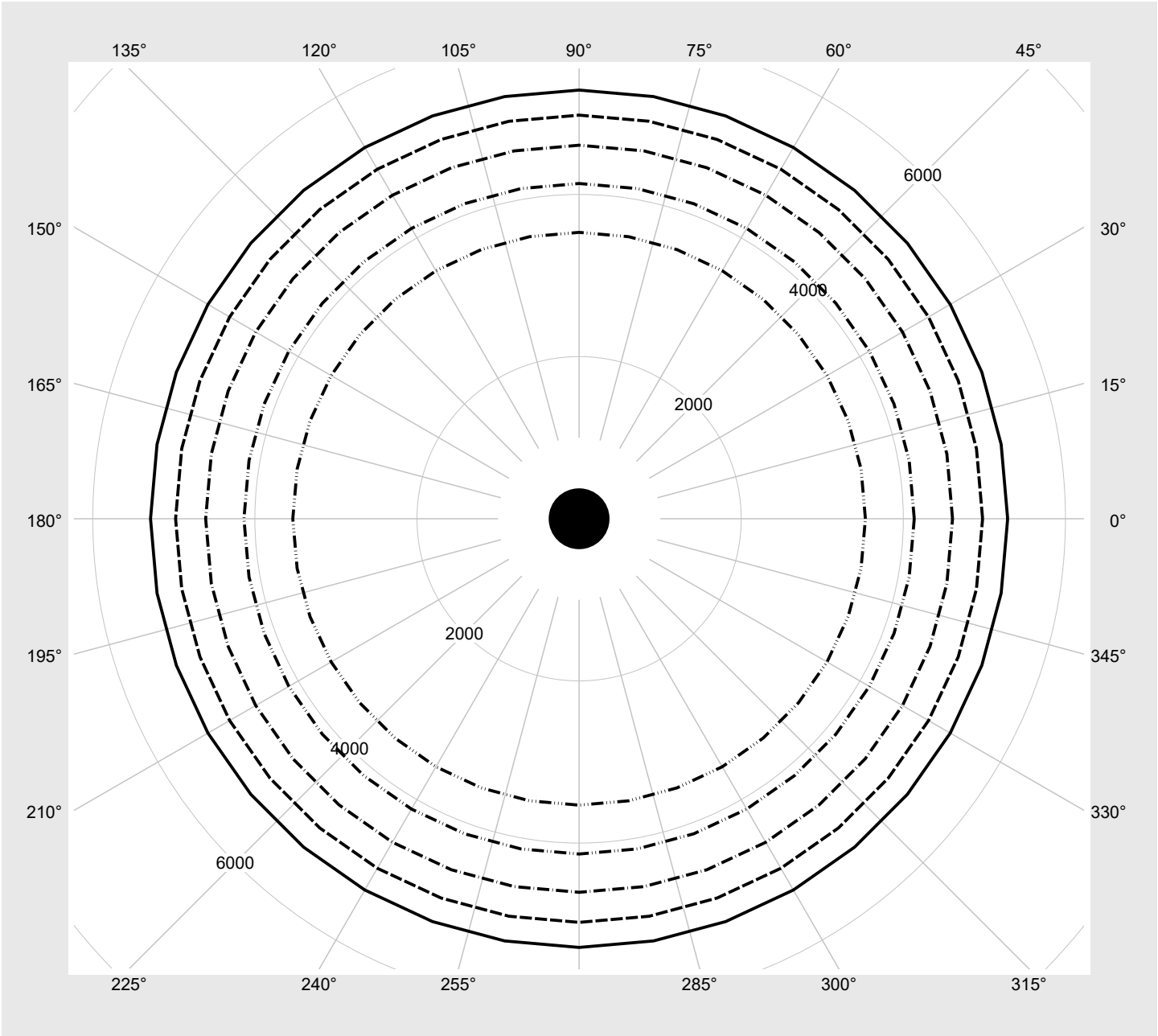
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	3290	21.7
95	241	252	3128	20.6
90	228	250	2965	19.5
85	215	248	2801	18.5
80	202	246	2637	17.4
75	189	243	2471	16.4
70	176	241	2305	15.3
65	163	238	2139	14.3
60	150	235	1971	13.1
55	138	232	1816	12.1
50	125	228	1647	11.1
45	112	224	1478	10.0
40	100	220	1321	9.1
35	87	215	1151	8.0
30	74	209	980	6.9
25	62	202	822	5.9
20	50	194	663	4.9
15	37	183	489	3.8
10	25	169	329	2.7
5	13	145	168	1.6
4	10	136	127	1.3