

Photometric test report

Family
Silica® 21 round S

Order number: 51MF31DAENSA
EAN: 4069025807373

LP number
60079_7

serial
documentation
20.05.2026

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Version

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

Lamps

LED 4000 K | CRI ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 3520 lm

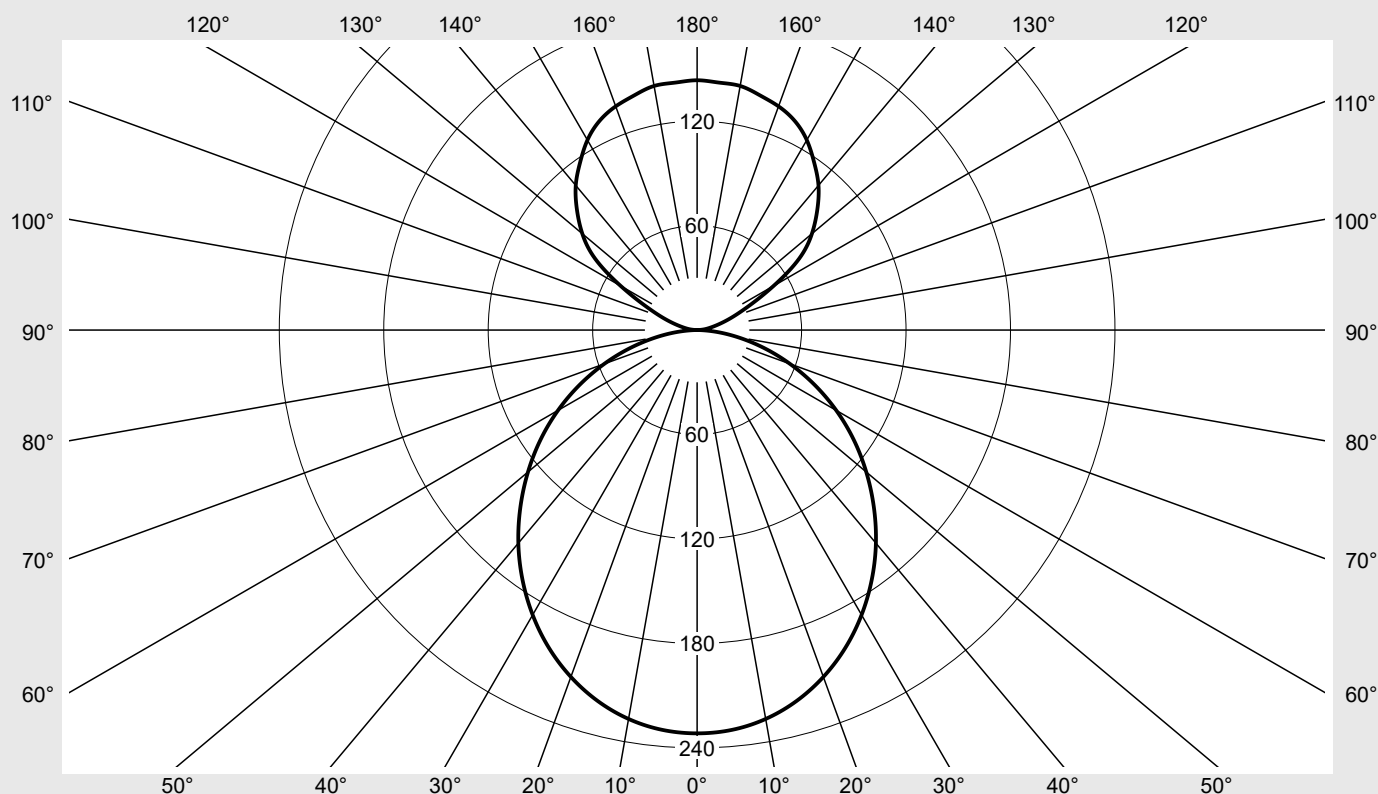
Power consumption = 24.9 W

Luminous efficacy = 141.4 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 232 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=62 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 62.3%
 ϕ_o 37.7%

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°	231.6	1.4	1.4
5°	230.5	11.0	12.4
10°	226.8	21.6	34.0
15°	220.6	31.3	65.3
20°	212.0	39.7	105.0
25°	201.4	46.7	151.7
30°	188.9	51.8	203.5
35°	174.9	55.0	258.5
40°	159.8	56.3	314.7
45°	143.5	55.6	370.4
50°	126.8	53.3	423.6
55°	109.8	49.3	472.9
60°	92.3	43.8	516.7
65°	74.5	37.0	553.7
70°	56.7	29.2	582.9
75°	39.7	21.0	604.0
80°	23.9	12.9	616.9
85°	10.3	5.6	622.5
90°	0.8	0.4	622.9
95°	3.3	1.8	624.7
100°	7.4	4.0	628.7
105°	13.0	6.9	635.6
110°	21.3	11.0	646.5
115°	32.8	16.3	662.8
120°	50.7	24.1	686.9
125°	71.6	32.1	719.0
130°	86.1	36.1	755.2
135°	97.6	37.8	793.0
140°	108.5	38.2	831.2
145°	117.3	36.9	868.1
150°	126.0	34.5	902.6
155°	132.6	30.7	933.3
160°	136.7	25.6	959.0
165°	139.6	19.8	978.8
170°	142.4	13.6	992.3
175°	142.7	6.8	999.1
180°	143.5	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	15.9	17.0	16.7	17.8	18.9	15.9	17.0	16.7	17.8	18.9
	3H	17.4	18.3	18.2	19.1	20.2	17.4	18.3	18.2	19.1	20.2
	4H	18.0	18.9	18.8	19.7	20.8	18.0	18.9	18.8	19.7	20.8
	6H	18.4	19.2	19.3	20.1	21.2	18.4	19.2	19.3	20.1	21.2
	8H	18.5	19.2	19.4	20.1	21.2	18.5	19.2	19.4	20.1	21.2
	12H	18.6	19.3	19.5	20.2	21.3	18.6	19.3	19.5	20.2	21.3
4H	2H	16.5	17.4	17.4	18.3	19.3	16.5	17.4	17.4	18.3	19.3
	3H	18.2	18.9	19.0	19.8	20.9	18.2	18.9	19.0	19.8	20.9
	4H	18.9	19.6	19.8	20.5	21.6	18.9	19.6	19.8	20.5	21.6
	6H	19.5	20.0	20.4	21.0	22.1	19.5	20.0	20.4	21.0	22.1
	8H	19.6	20.1	20.5	21.0	22.2	19.6	20.1	20.5	21.0	22.2
	12H	19.7	20.2	20.6	21.1	22.3	19.7	20.2	20.6	21.1	22.3
8H	4H	19.1	19.6	20.0	20.5	21.7	19.1	19.6	20.0	20.5	21.7
	6H	19.7	20.2	20.7	21.1	22.3	19.7	20.2	20.7	21.1	22.3
	8H	20.0	20.4	21.0	21.4	22.6	20.0	20.4	21.0	21.4	22.6
	12H	20.3	20.6	21.2	21.5	22.7	20.3	20.6	21.2	21.5	22.7
12H	4H	19.1	19.6	20.1	20.5	21.7	19.1	19.6	20.1	20.5	21.7
	6H	19.9	20.2	20.8	21.2	22.4	19.9	20.2	20.8	21.2	22.4
	8H	20.2	20.5	21.1	21.4	22.6	20.2	20.5	21.1	21.4	22.6

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 386
C-planes	0°		
γ	Luminance in cd/m²		
45°	6105.3		
50°	5934.9		
55°	5758.6		
60°	5551.4		
65°	5299.6		
70°	4989.7		
75°	4617.8		
80°	4144.6		
85°	3540.7		

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Luminance values in cd/m²

γ 65°

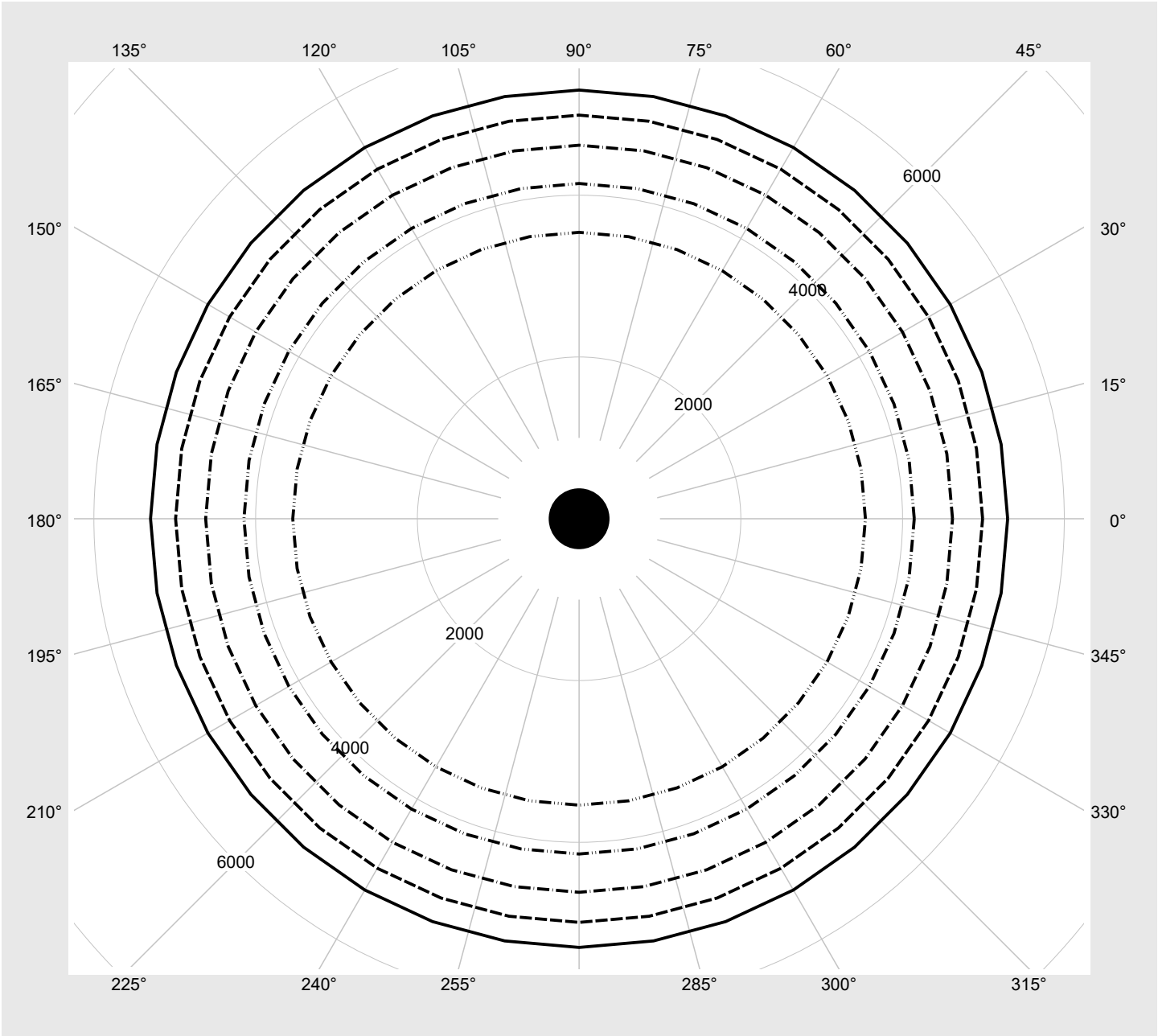
γ 70°

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	3520	24.9
95	241	252	3347	23.7
90	228	250	3174	22.4
85	214	248	2986	21.1
80	201	245	2811	19.8
75	188	243	2635	18.6
70	175	240	2458	17.4
65	163	238	2293	16.2
60	150	235	2115	15.0
55	137	231	1935	13.8
50	124	228	1755	12.5
45	112	224	1587	11.4
40	99	219	1406	10.2
35	87	215	1237	9.1
30	74	209	1054	7.8
25	62	202	884	6.7
20	49	194	699	5.4
15	37	183	527	4.3
10	25	169	355	3.1
5	13	145	182	1.8
4	9	132	123	1.3