

Photometric test report

Family
Silica® 21 round S

Order number: 51MF31DA4NBA
EAN: 4069025807236

LP number
60078_5

serial
documentation
20.05.2026



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 = 24.1 W

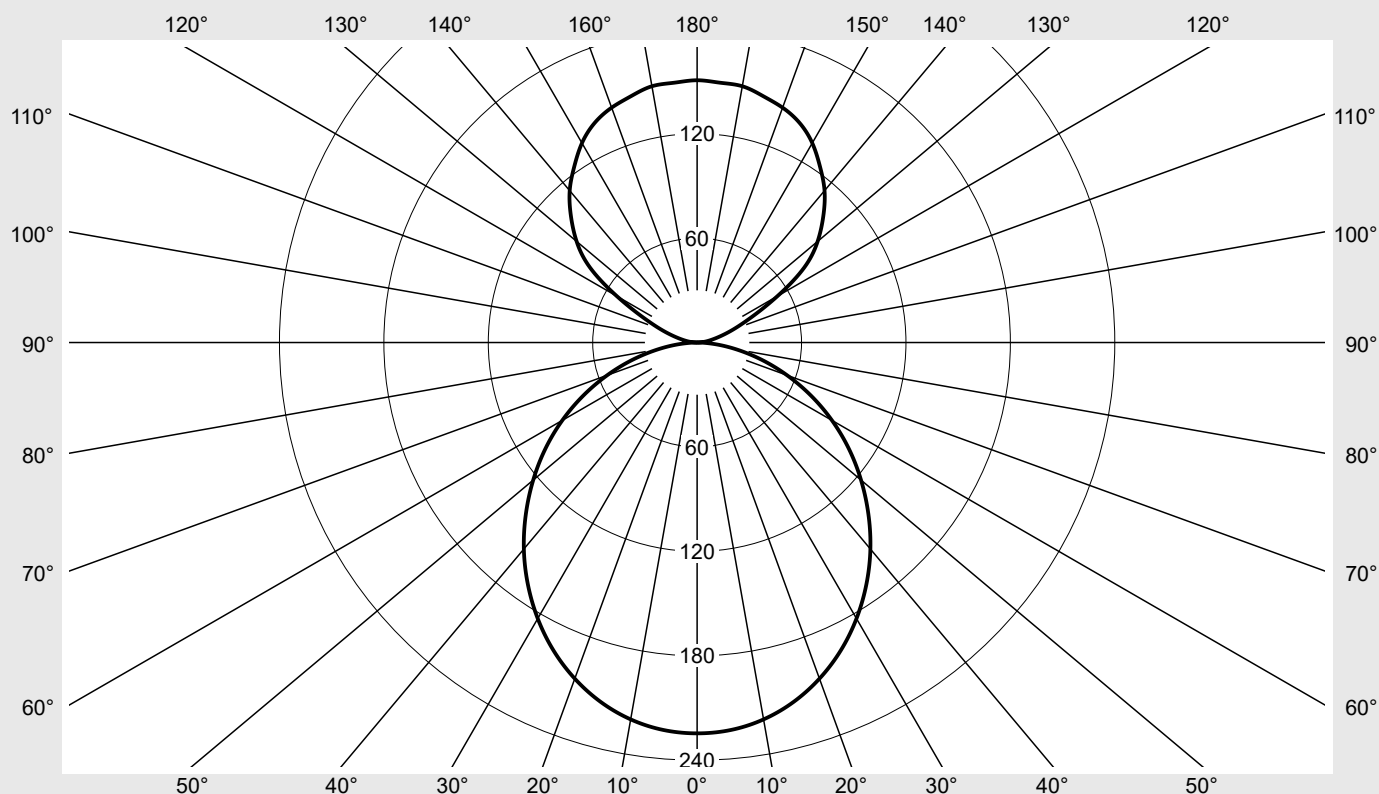
Luminous efficacy = 150.6 lm/W

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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

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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°

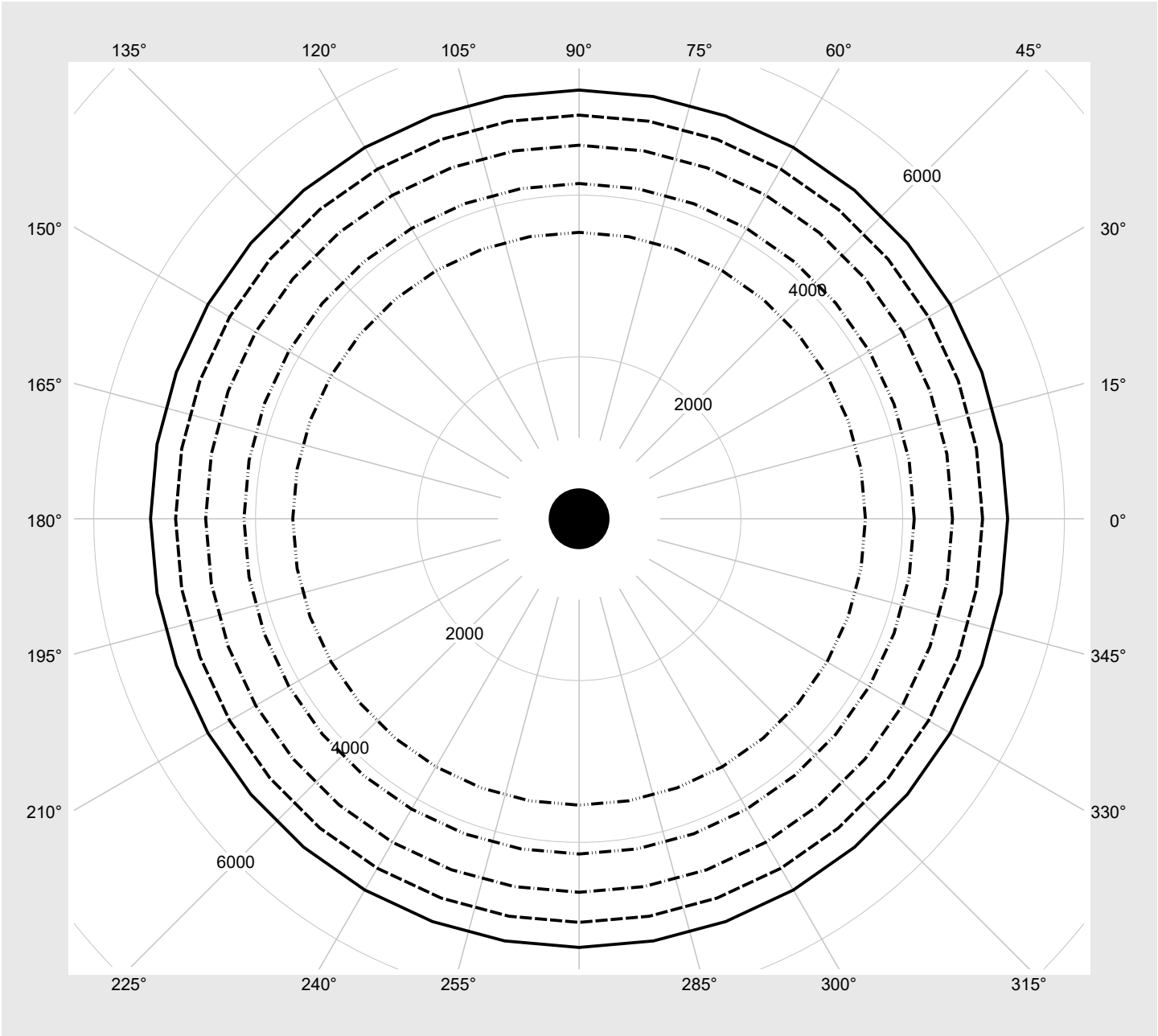
γ 70°

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	24.1
95	241	252	3448	22.9
90	228	250	3265	21.7
85	215	248	3082	20.5
80	202	246	2898	19.3
75	190	243	2728	18.2
70	177	241	2543	17.1
65	164	238	2357	15.9
60	152	235	2184	14.8
55	139	232	1998	13.6
50	126	228	1809	12.4
45	114	225	1635	11.3
40	101	220	1447	10.1
35	89	216	1271	9.0
30	77	210	1096	7.9
25	64	204	905	6.7
20	52	196	728	5.6
15	40	186	550	4.5
10	27	172	357	3.2
5	15	150	178	2.0
2	9	132	88	1.3