

Photometric test report

Family
Silica® 21 round S

Order number: 51ME31DA3NBA
EAN: 4069025800374

LP number
60078_2

serial
documentation
20.05.2026

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Version

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

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 3630 lm

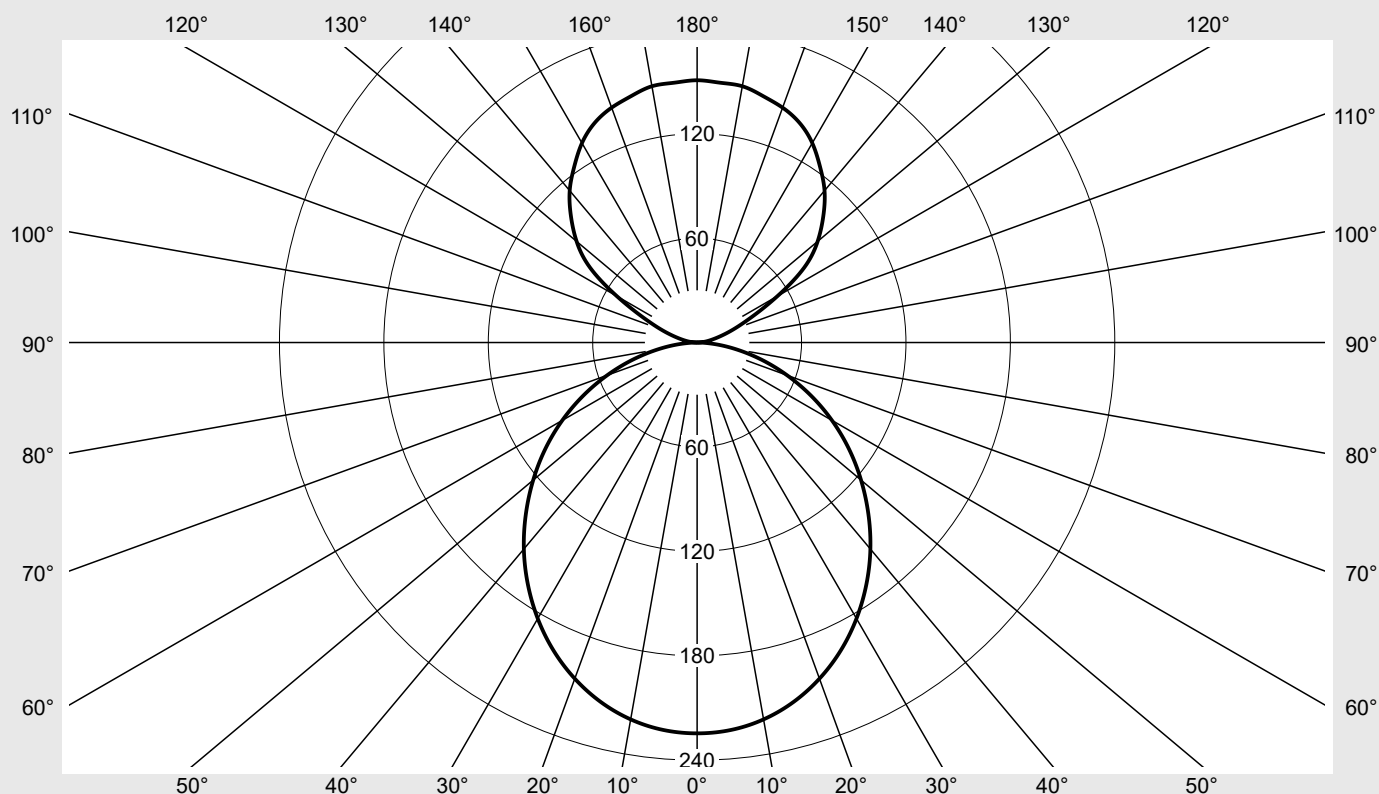
Power consumption = 27.5 W

Luminous efficacy = 132 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

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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
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°

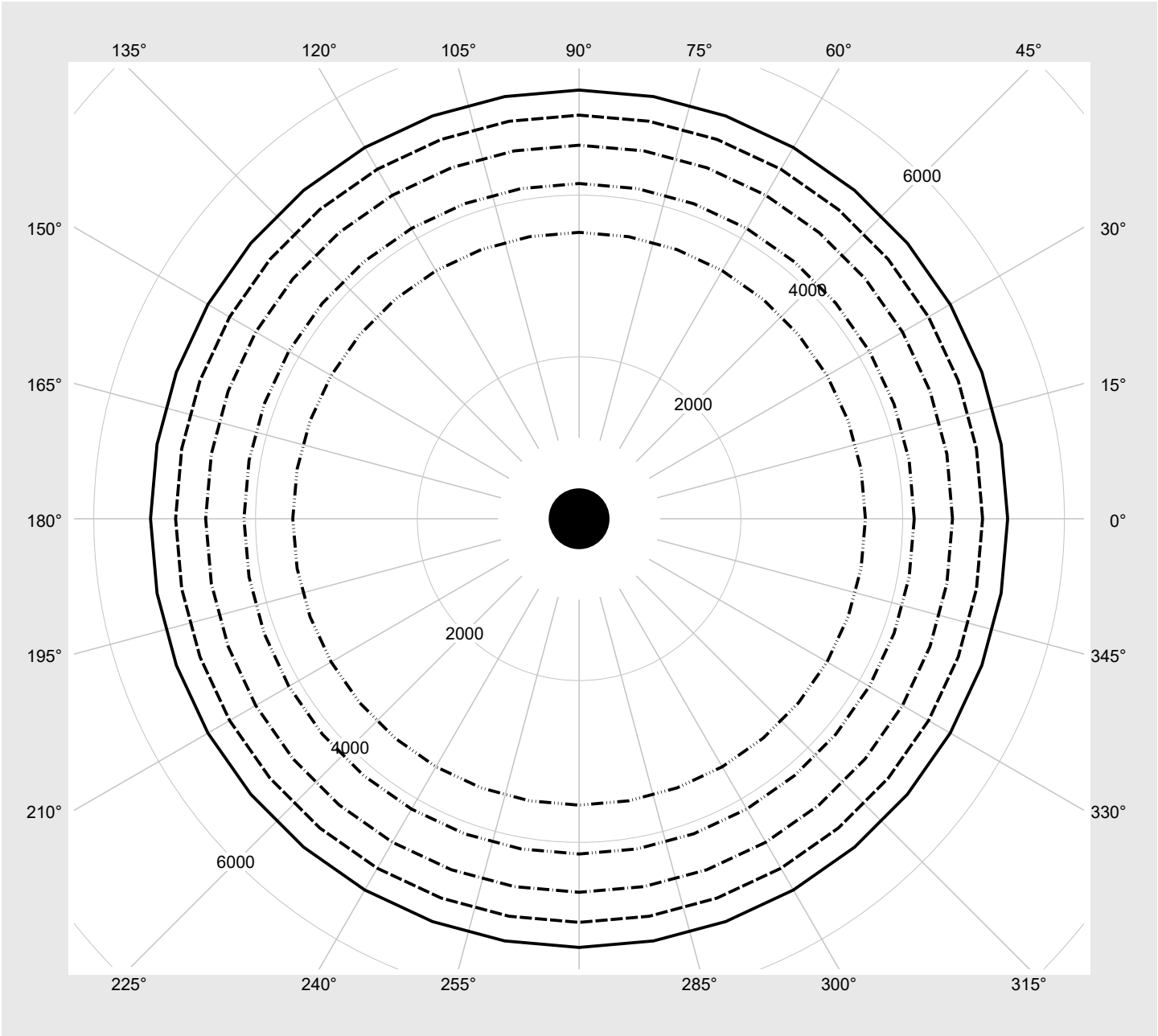
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	3630	27.5
95	241	252	3448	26.1
90	228	250	3265	24.8
85	215	248	3081	23.4
80	203	246	2911	22.1
75	190	243	2727	20.8
70	177	241	2542	19.4
65	164	238	2356	18.1
60	152	235	2184	16.8
55	139	232	1997	15.5
50	126	228	1810	14.1
45	114	225	1637	12.9
40	101	220	1449	11.6
35	89	216	1275	10.3
30	76	210	1086	8.9
25	64	204	911	7.7
20	51	195	722	6.3
15	39	185	545	5.0
10	27	172	369	3.7
5	14	148	178	2.1
2	8	127	89	1.4