

Photometric test report

Family
Silica® 21 round M

Order number: 51MF31DBENBA
EAN: 4069025807595

LP number
60084_7

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 ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 7490 lm

Power consumption = 47.6 W

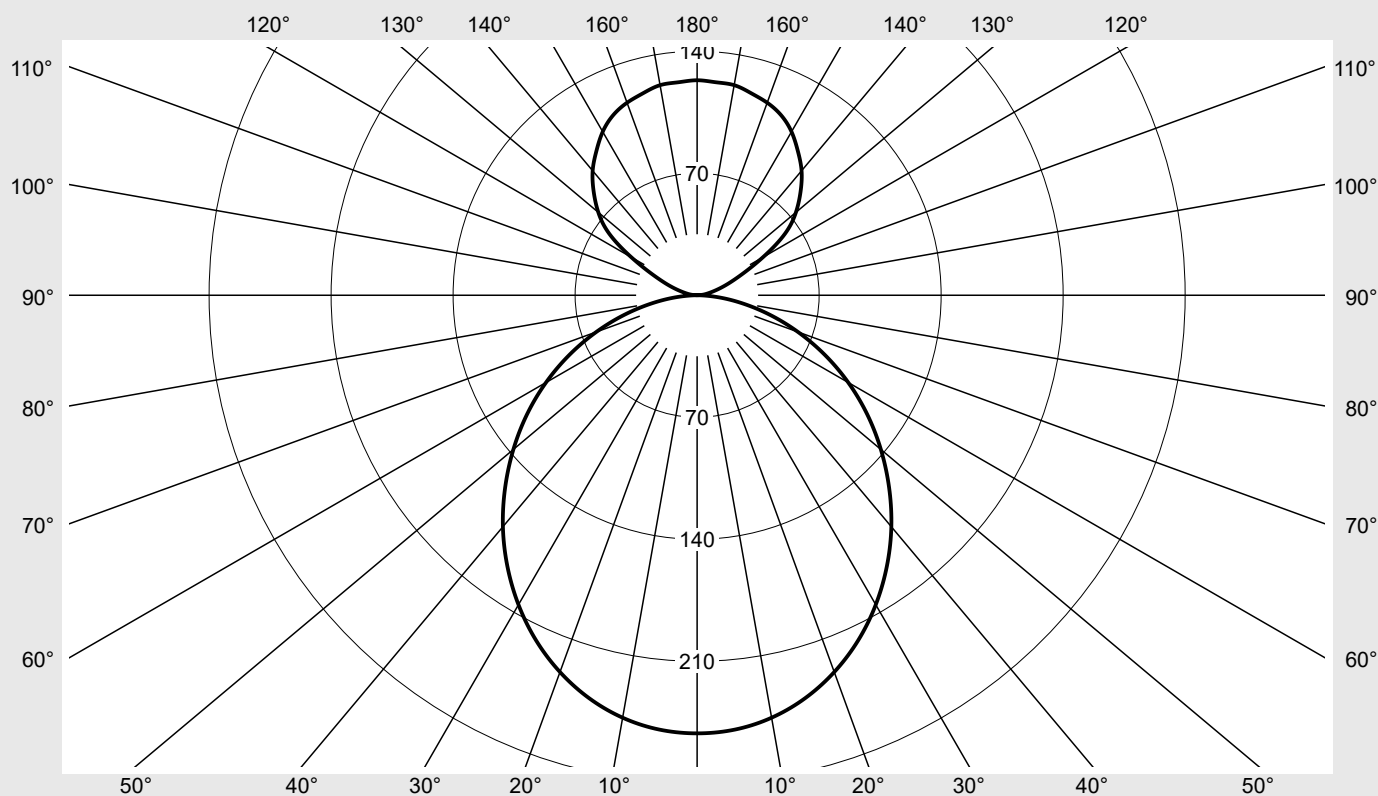
Luminous efficacy = 157.4 lm/W

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Luminous intensity in cd/klm

C180-0

Imax: 251 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=68 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 67.6%
 ϕ_o 32.4%

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°	251.4	1.5	1.5
5°	250.1	11.9	13.5
10°	246.1	23.4	36.9
15°	239.3	34.0	70.8
20°	230.0	43.1	114.0
25°	218.5	50.6	164.6
30°	205.0	56.2	220.8
35°	189.8	59.7	280.4
40°	173.4	61.1	341.5
45°	155.7	60.4	401.9
50°	137.6	57.8	459.7
55°	119.2	53.5	513.2
60°	100.1	47.5	560.7
65°	80.8	40.1	600.8
70°	61.6	31.7	632.5
75°	43.1	22.8	655.4
80°	26.0	14.0	669.4
85°	11.1	6.1	675.5
90°	0.7	0.4	675.8
95°	2.8	1.5	677.4
100°	6.3	3.4	680.8
105°	11.1	5.9	686.7
110°	18.3	9.4	696.1
115°	28.2	14.0	710.1
120°	43.6	20.7	730.8
125°	61.5	27.6	758.5
130°	74.0	31.1	789.5
135°	83.9	32.5	822.1
140°	93.2	32.9	854.9
145°	100.8	31.7	886.6
150°	108.3	29.7	916.3
155°	114.0	26.4	942.7
160°	117.6	22.0	964.7
165°	120.0	17.0	981.8
170°	122.4	11.7	993.4
175°	122.7	5.9	999.3
180°	123.4	0.7	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	16.3	17.5	17.1	18.2	19.2	16.3	17.5	17.1	18.2	19.2	
	3H	17.8	18.8	18.5	19.6	20.6	17.8	18.8	18.5	19.6	20.6	
	4H	18.4	19.3	19.2	20.1	21.1	18.4	19.3	19.2	20.1	21.1	
	6H	18.8	19.7	19.6	20.5	21.5	18.8	19.7	19.6	20.5	21.5	
	8H	18.9	19.7	19.7	20.5	21.6	18.9	19.7	19.7	20.5	21.6	
	12H	19.0	19.8	19.9	20.6	21.7	19.0	19.8	19.9	20.6	21.7	
4H	2H	16.9	17.9	17.7	18.7	19.7	16.9	17.9	17.7	18.7	19.7	
	3H	18.6	19.4	19.4	20.2	21.3	18.6	19.4	19.4	20.2	21.3	
	4H	19.3	20.0	20.1	20.9	21.9	19.3	20.0	20.1	20.9	21.9	
	6H	19.9	20.5	20.7	21.4	22.4	19.9	20.5	20.7	21.4	22.4	
	8H	20.0	20.6	20.9	21.4	22.5	20.0	20.6	20.9	21.4	22.5	
	12H	20.2	20.7	21.0	21.5	22.6	20.2	20.7	21.0	21.5	22.6	
8H	4H	19.5	20.1	20.4	21.0	22.1	19.5	20.1	20.4	21.0	22.1	
	6H	20.2	20.6	21.1	21.5	22.6	20.2	20.6	21.1	21.5	22.6	
	8H	20.5	20.9	21.4	21.8	22.9	20.5	20.9	21.4	21.8	22.9	
	12H	20.7	21.1	21.6	22.0	23.1	20.7	21.1	21.6	22.0	23.1	
12H	4H	19.6	20.1	20.5	21.0	22.1	19.6	20.1	20.5	21.0	22.1	
	6H	20.3	20.7	21.2	21.6	22.7	20.3	20.7	21.2	21.6	22.7	
	8H	20.6	20.9	21.5	21.9	23.0	20.6	20.9	21.5	21.9	23.0	

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 586
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C-planes		0°
γ	Luminance in cd/m²	
45°	6116.3	
50°	5945.6	
55°	5769.0	
60°	5561.4	
65°	5309.1	
70°	4998.7	
75°	4626.1	
80°	4152.2	
85°	3546.8	

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Luminance values in cd/m²

γ 65°

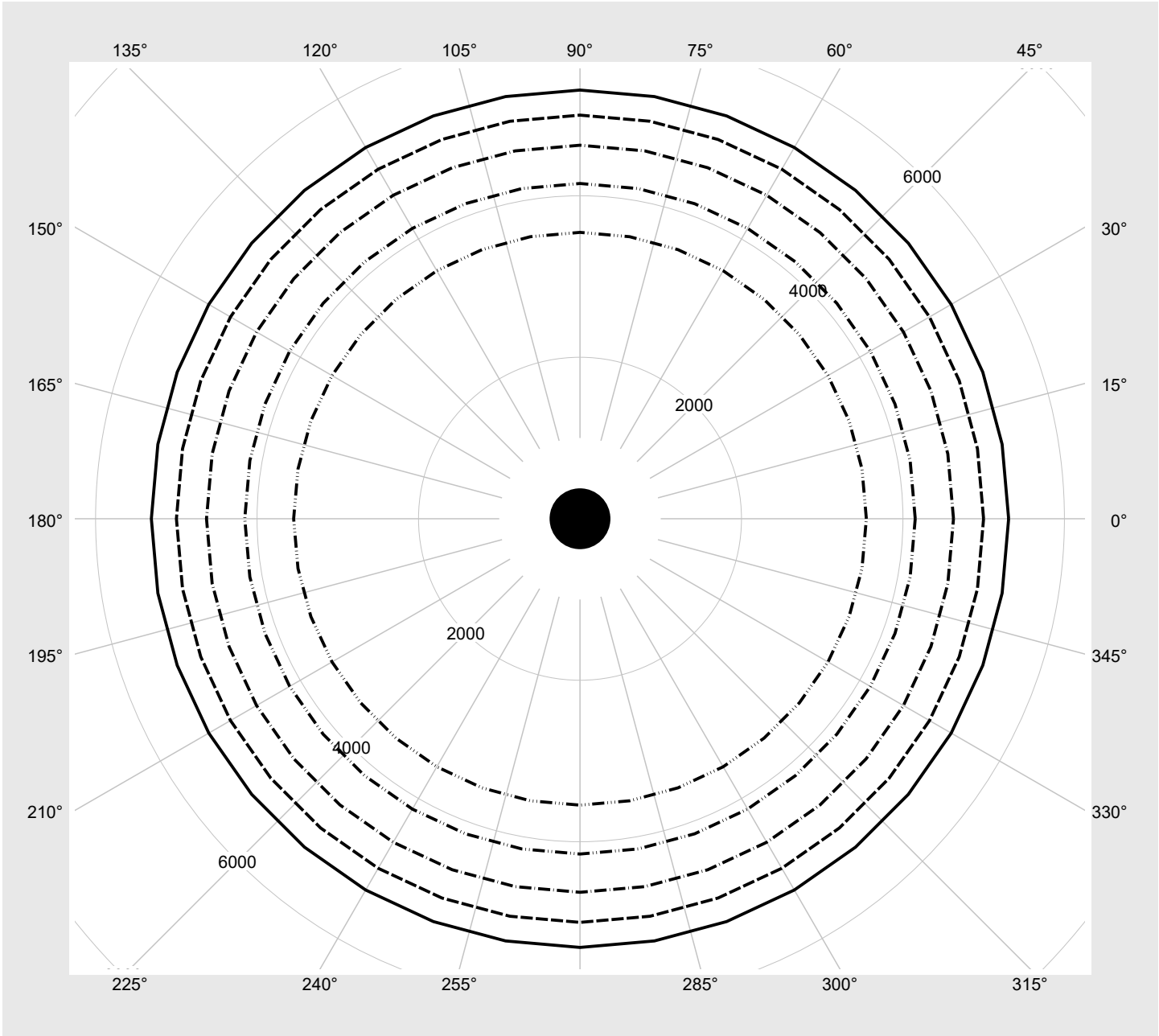
γ 70°

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	7490	47.6
95	241	252	7120	45.2
90	228	250	6749	42.7
85	215	248	6376	40.4
80	202	246	6003	38.0
75	189	243	5627	35.8
70	176	241	5250	33.4
65	163	238	4871	31.0
60	150	235	4490	28.7
55	137	231	4108	26.3
50	125	228	3754	24.0
45	112	224	3369	21.6
40	99	219	2982	19.2
35	87	215	2623	17.0
30	74	209	2233	14.6
25	62	202	1872	12.5
20	50	194	1509	10.4
15	37	183	1114	7.9
10	25	169	749	5.2
5	13	145	383	2.2
3	7	122	199	1.0