

Photometric test report

Family
Silica® 21 round M

Order number: 51MF41DBENSA
EAN: 4069025809056

LP number
60071_103

serial
documentation
20.05.2026

siteco



Version

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

Lamps

LED 4000 K | CRI ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 5060 lm

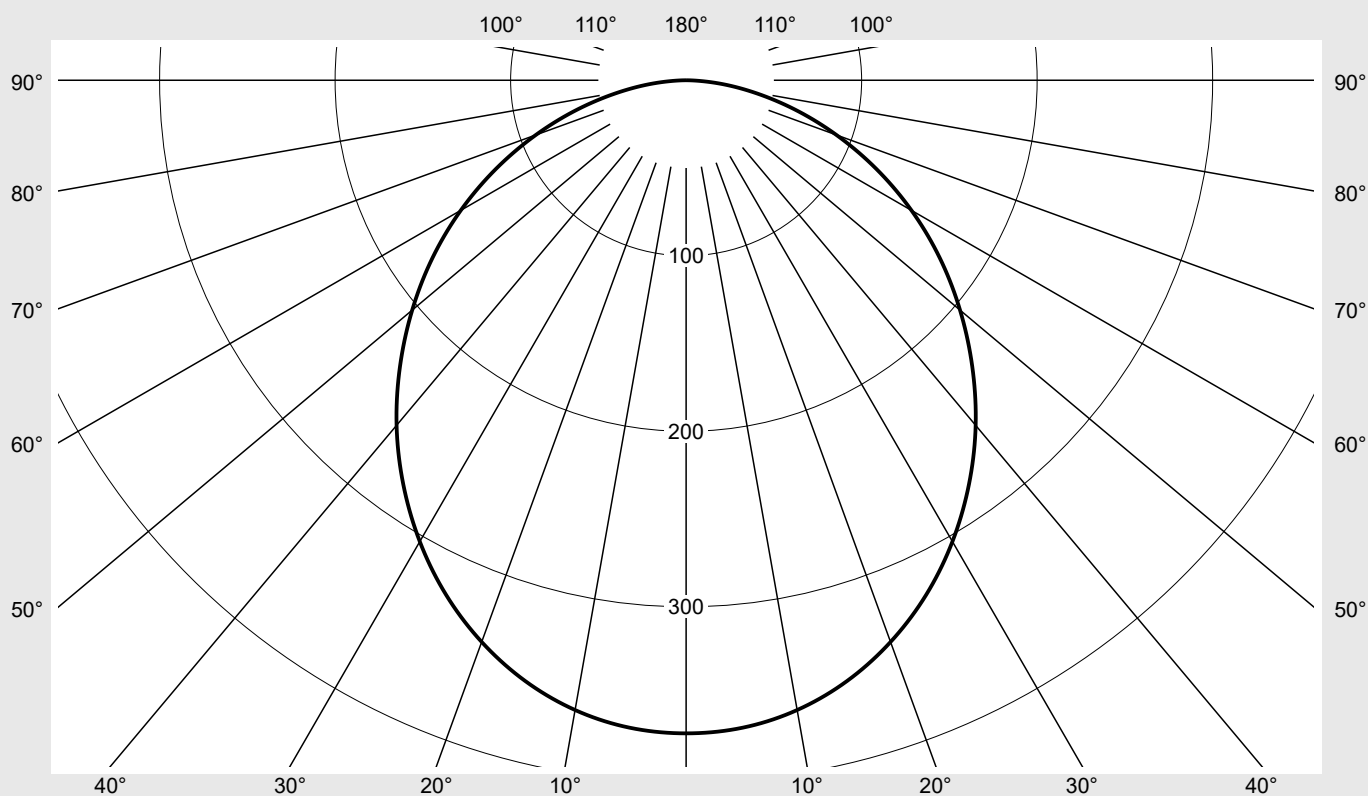
Power consumption = 32.4 W

Luminous efficacy = 156.2 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 372 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=49 N2=79 N3=96
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

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°	372.1	2.2	2.2
5°	370.3	17.7	19.9
10°	364.3	34.7	54.6
15°	354.3	50.3	104.9
20°	340.6	63.8	168.7
25°	323.6	75.0	243.7
30°	303.5	83.2	326.8
35°	281.0	88.3	415.2
40°	256.7	90.4	505.6
45°	230.6	89.4	595.0
50°	203.7	85.5	680.5
55°	176.4	79.2	759.7
60°	148.2	70.4	830.1
65°	119.6	59.4	889.5
70°	91.1	46.9	936.5
75°	63.8	33.8	970.3
80°	38.4	20.7	991.0
85°	16.5	9.0	1000.0
90°	0.0	0.0	1000.0
95°	0.0	0.0	1000.0
100°	0.0	0.0	1000.0
105°	0.0	0.0	1000.0
110°	0.0	0.0	1000.0
115°	0.0	0.0	1000.0
120°	0.0	0.0	1000.0
125°	0.0	0.0	1000.0
130°	0.0	0.0	1000.0
135°	0.0	0.0	1000.0
140°	0.0	0.0	1000.0
145°	0.0	0.0	1000.0
150°	0.0	0.0	1000.0
155°	0.0	0.0	1000.0
160°	0.0	0.0	1000.0
165°	0.0	0.0	1000.0
170°	0.0	0.0	1000.0
175°	0.0	0.0	1000.0
180°	0.0	0.0	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	18.4	20.1	18.7	20.4	20.7	18.4	20.1	18.7	20.4	20.7	
	3H	20.0	21.5	20.3	21.8	22.2	20.0	21.5	20.3	21.8	22.2	
	4H	20.6	22.0	21.0	22.4	22.7	20.6	22.0	21.0	22.4	22.7	
	6H	21.1	22.4	21.5	22.8	23.1	21.1	22.4	21.5	22.8	23.1	
	8H	21.3	22.5	21.7	22.9	23.3	21.3	22.5	21.7	22.9	23.3	
	12H	21.4	22.5	21.8	22.9	23.3	21.4	22.5	21.8	22.9	23.3	
4H	2H	19.1	20.6	19.5	20.9	21.3	19.1	20.6	19.5	20.9	21.3	
	3H	20.9	22.1	21.3	22.5	22.9	20.9	22.1	21.3	22.5	22.9	
	4H	21.6	22.7	22.1	23.1	23.6	21.6	22.7	22.1	23.1	23.6	
	6H	22.2	23.2	22.7	23.6	24.1	22.2	23.2	22.7	23.6	24.1	
	8H	22.4	23.3	22.9	23.8	24.2	22.4	23.3	22.9	23.8	24.2	
	12H	22.6	23.4	23.1	23.8	24.3	22.6	23.4	23.1	23.8	24.3	
8H	4H	22.0	22.8	22.4	23.3	23.8	22.0	22.8	22.4	23.3	23.8	
	6H	22.7	23.4	23.2	23.9	24.4	22.7	23.4	23.2	23.9	24.4	
	8H	23.0	23.6	23.5	24.1	24.6	23.0	23.6	23.5	24.1	24.6	
	12H	23.2	23.7	23.7	24.2	24.8	23.2	23.7	23.7	24.2	24.8	
12H	4H	22.0	22.8	22.5	23.3	23.7	22.0	22.8	22.5	23.3	23.7	
	6H	22.8	23.4	23.3	23.9	24.4	22.8	23.4	23.3	23.9	24.4	
	8H	23.1	23.6	23.6	24.1	24.7	23.1	23.6	23.6	24.1	24.7	

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 586
C-planes	0°		
γ	Luminance in cd/m²		
45°	6117.2		
50°	5946.5		
55°	5769.9		
60°	5562.2		
65°	5309.9		
70°	4999.4		
75°	4626.8		
80°	4152.7		
85°	3547.3		

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Luminance values in cd/m²

γ 65°

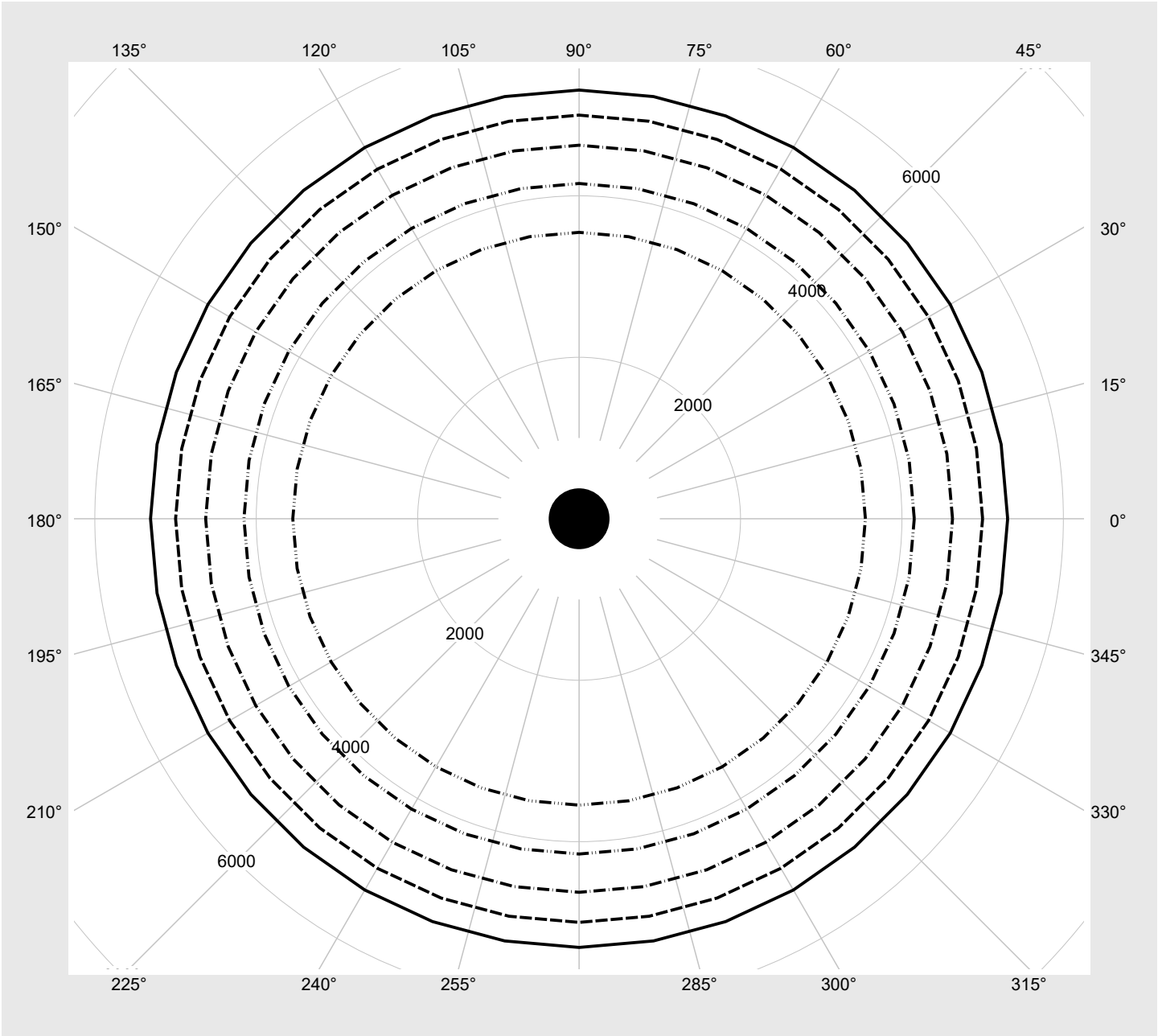
γ 70°

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	5060	32.4
95	241	252	4809	30.8
90	228	250	4559	29.1
85	215	248	4306	27.5
80	202	246	4053	25.9
75	189	243	3799	24.3
70	176	241	3543	22.7
65	163	238	3286	21.1
60	150	235	3029	19.5
55	138	232	2790	18.1
50	125	228	2531	16.5
45	112	224	2271	14.9
40	100	220	2029	13.5
35	87	215	1767	12.1
30	75	209	1524	10.7
25	62	202	1260	9.1
20	50	194	1016	7.6
15	37	183	750	5.9
10	25	169	504	4.3
5	13	145	257	2.9
3	7	122	133	2.1