

Photometric test report

Family
Silica® 21 round M

Order number: 51MF21DB4NBA
EAN: 4069025806031

LP number
60073_29

serial
documentation
20.05.2026



Version

surface-mounted luminaire, housing, black,
cover, opal, direct extremely wide distribution
with ceiling illumination, UGR≤22

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 5210 lm

Power consumption = 31.3 W

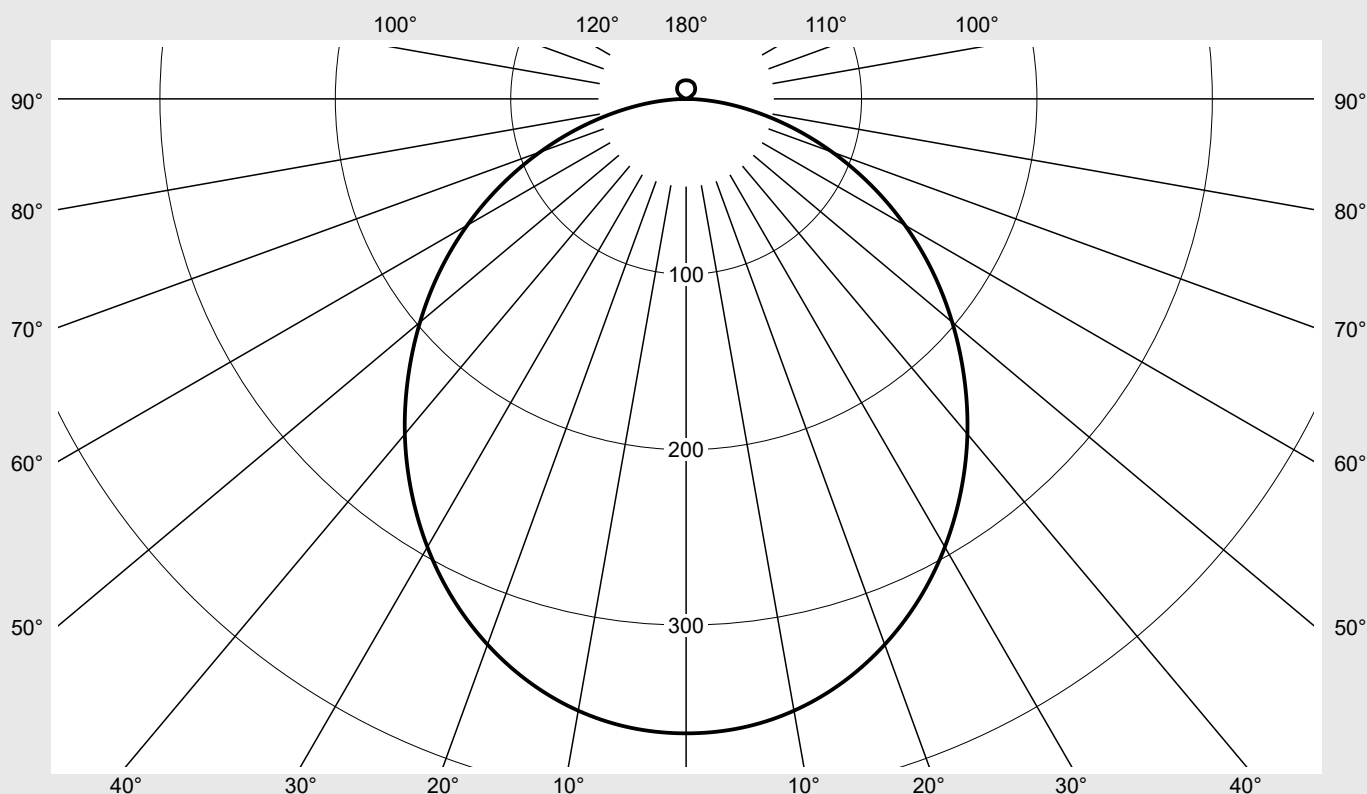
Luminous efficacy = 166.5 lm/W

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Luminous intensity in cd/klm

C180-0

Imax: 362 cd/klm



Classifications

DIN 5040 A 4 3
CIE N1=49 N2=79 N3=96
N4=97 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 97.2%
 ϕ_o 2.8%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities Maximum luminous intensity		sITeco

C- planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	361.7	2.2	2.2
5°	359.9	17.2	19.4
10°	354.2	33.7	53.1
15°	344.4	48.9	101.9
20°	331.1	62.1	164.0
25°	314.5	72.9	236.9
30°	295.0	80.9	317.7
35°	273.1	85.9	403.6
40°	249.5	87.9	491.5
45°	224.1	86.9	578.4
50°	198.0	83.2	661.5
55°	171.5	77.0	738.5
60°	144.1	68.4	806.9
65°	116.3	57.8	864.7
70°	88.6	45.6	910.3
75°	62.0	32.8	943.1
80°	37.4	20.2	963.3
85°	16.0	8.7	972.1
90°	0.1	0.0	972.1
95°	0.2	0.1	972.2
100°	0.5	0.3	972.5
105°	1.0	0.5	973.0
110°	1.6	0.8	973.8
115°	2.4	1.2	975.0
120°	3.8	1.8	976.8
125°	5.3	2.4	979.2
130°	6.4	2.7	981.9
135°	7.2	2.8	984.7
140°	8.0	2.8	987.5
145°	8.7	2.7	990.2
150°	9.3	2.6	992.8
155°	9.8	2.3	995.1
160°	10.1	1.9	997.0
165°	10.3	1.5	998.4
170°	10.5	1.0	999.4
175°	10.6	0.5	999.9
180°	10.6	0.1	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	22.5	23.3	22.9	23.8	24.2	22.5	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	22.9	22.4	23.3	23.8	22.0	22.9	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	23.8	22.0	22.8	22.5	23.3	23.8	
	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
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C-planes	0°
γ	Luminance in cd/m²
45°	6122.6
50°	5951.7
55°	5774.9
60°	5567.1
65°	5314.6
70°	5003.7
75°	4630.8
80°	4156.4
85°	3550.3

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Luminance values in cd/m²

γ 65°

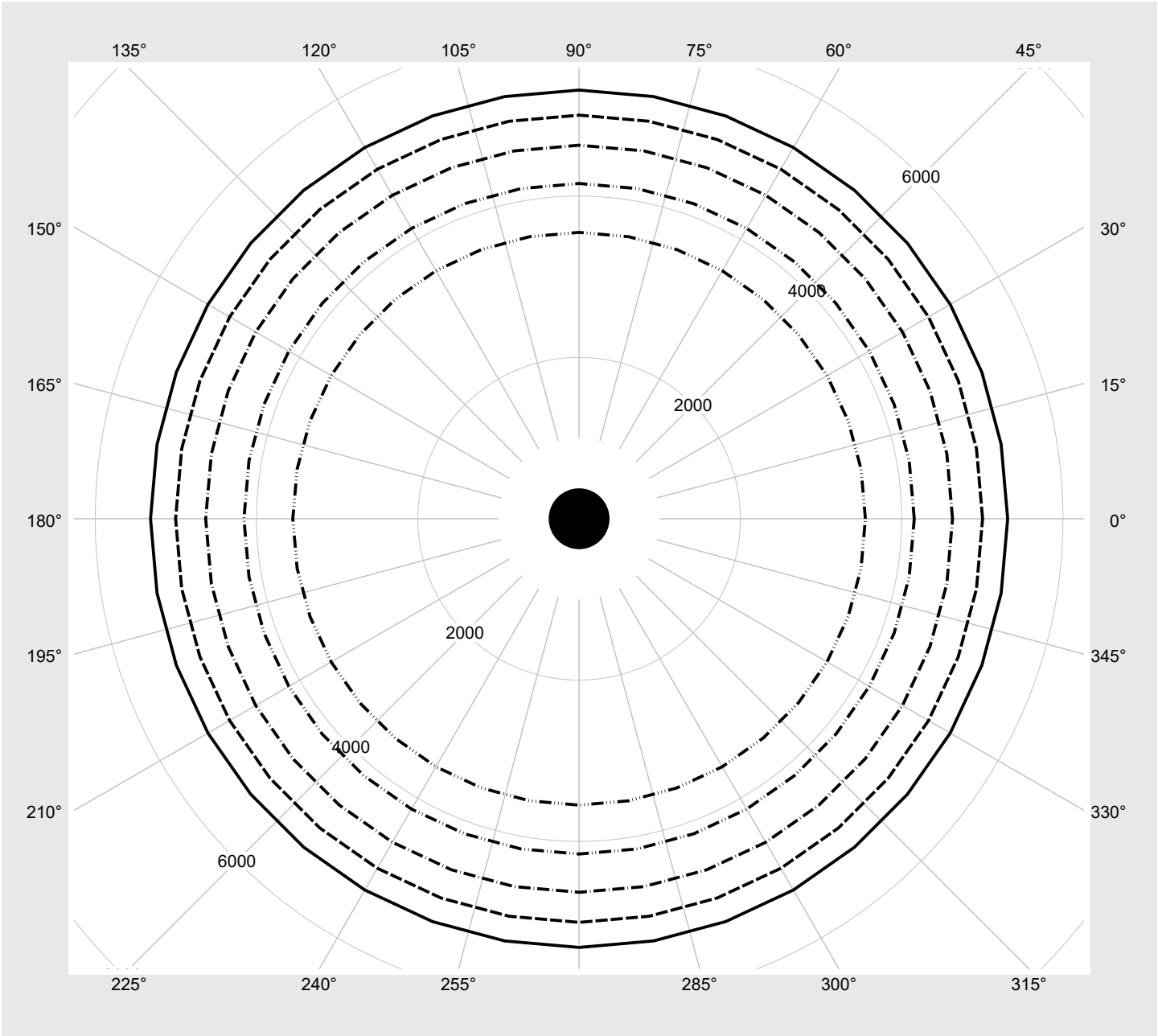
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table environmental temperature: 25°C		

Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	5210	31.3
95	241	252	4947	29.7
90	228	250	4682	28.2
85	216	248	4438	26.8
80	203	246	4173	25.2
75	190	243	3907	23.6
70	177	241	3639	22.1
65	165	238	3392	20.6
60	152	235	3123	19.2
55	140	232	2874	17.8
50	127	229	2604	16.2
45	115	225	2354	14.9
40	102	221	2082	13.4
35	90	216	1830	12.2
30	77	210	1556	10.7
25	65	204	1304	9.3
20	53	197	1050	7.9
15	40	186	775	6.1
10	28	173	520	4.6
5	16	153	264	3.2
1	7	122	72	2.1