

Photometric test report

Family
Silica® 21 round M

Order number: 51MF21DB3NBA
EAN: 4069025805980

LP number
60073_28

serial
documentation
20.05.2026



Version

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

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 5210 lm

Power consumption = 32.6 W

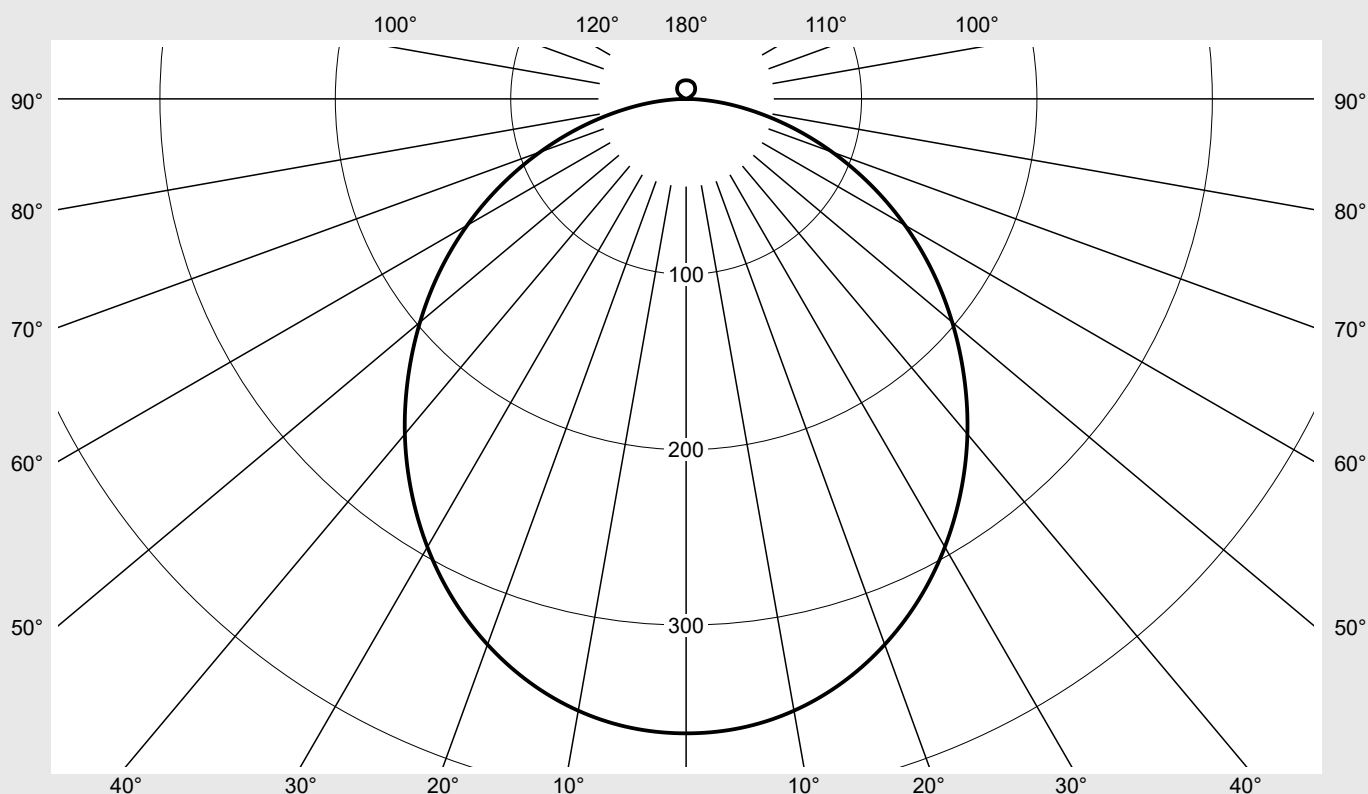
Luminous efficacy = 159.8 lm/W

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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

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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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Family Silica® 21 round M			Order number: 51MF21DB3NBA EAN: 4069025805980							LP number 60073_28	
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
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°

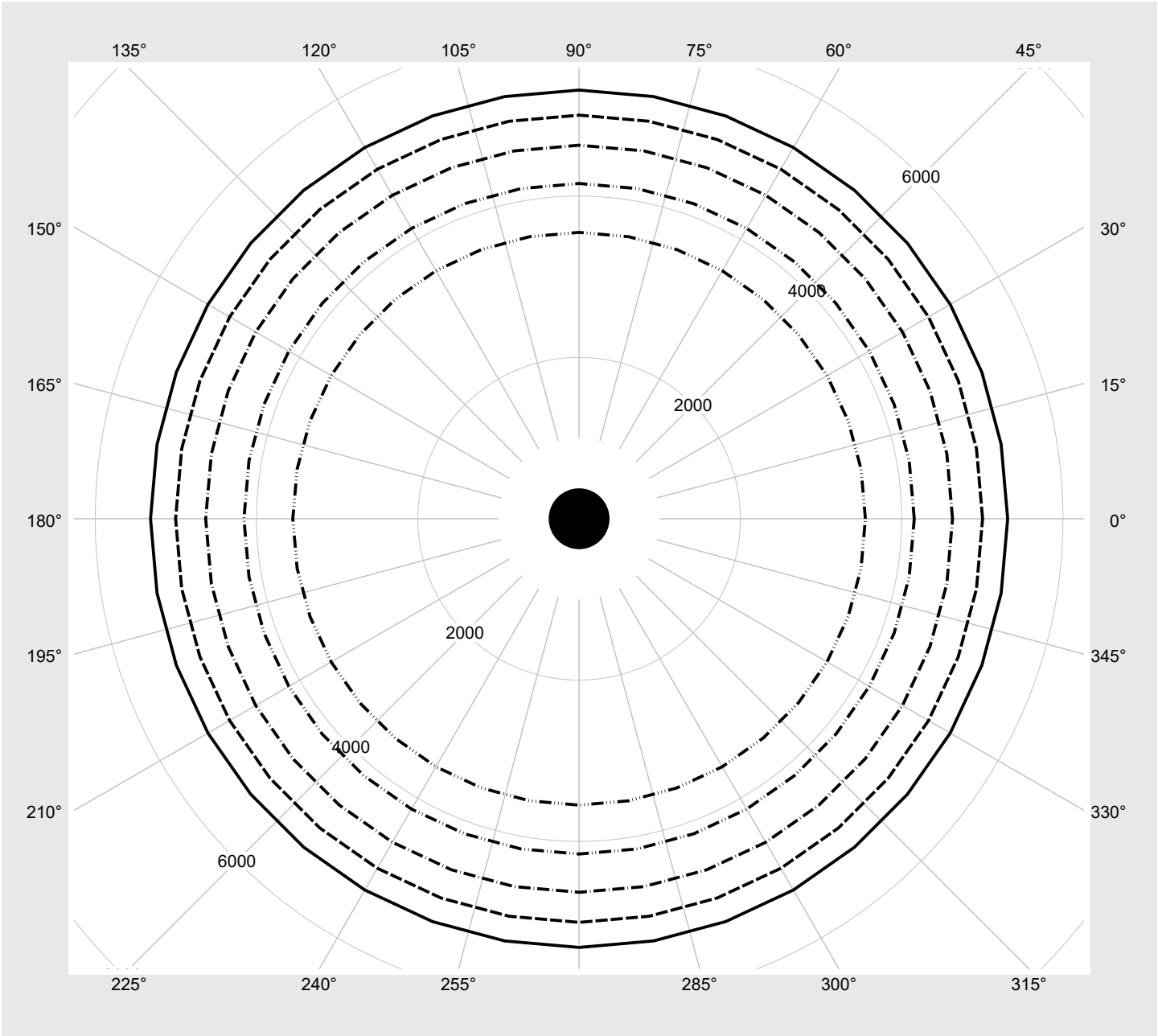
γ 70°

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	32.6
95	241	252	4948	31.1
90	228	250	4685	29.5
85	215	248	4421	27.8
80	203	246	4178	26.4
75	190	243	3913	24.7
70	177	241	3647	23.1
65	164	238	3380	21.5
60	152	235	3133	20.0
55	139	232	2864	18.4
50	126	228	2595	16.8
45	114	225	2346	15.4
40	101	220	2075	13.9
35	89	216	1824	12.4
30	77	210	1573	11.0
25	64	204	1301	9.5
20	52	196	1048	8.0
15	39	185	775	6.2
10	27	172	521	4.6
5	15	150	267	3.2
1	6	117	75	2.0