

Photometric test report

Family
Silica® 21 round L

Order number: 51MF21DC3NSA
EAN: 4069025806239

LP number
60073_52

serial
documentation
20.05.2026

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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

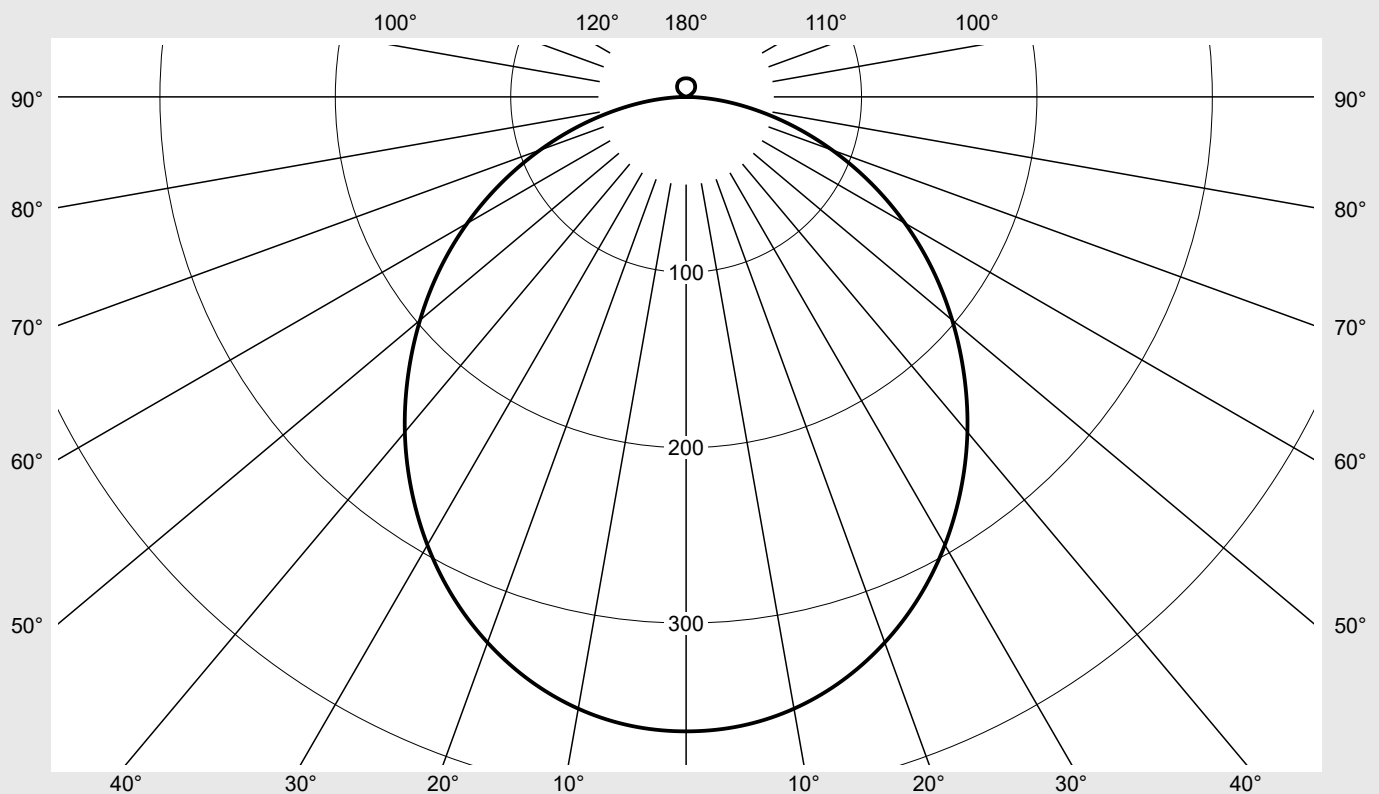
Rated values Net luminous flux = 11880 lm
Power consumption = 70.8 W
Luminous efficacy = 167.8 lm/W



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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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	22.7	23.1	21.1	22.4	21.5	22.7	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 = 886
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C-planes	0°
γ	Luminance in cd/m²
45°	6107.2
50°	5936.7
55°	5760.4
60°	5553.1
65°	5301.2
70°	4991.2
75°	4619.2
80°	4145.9
85°	3541.4

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Luminance values in cd/m²

γ 65°

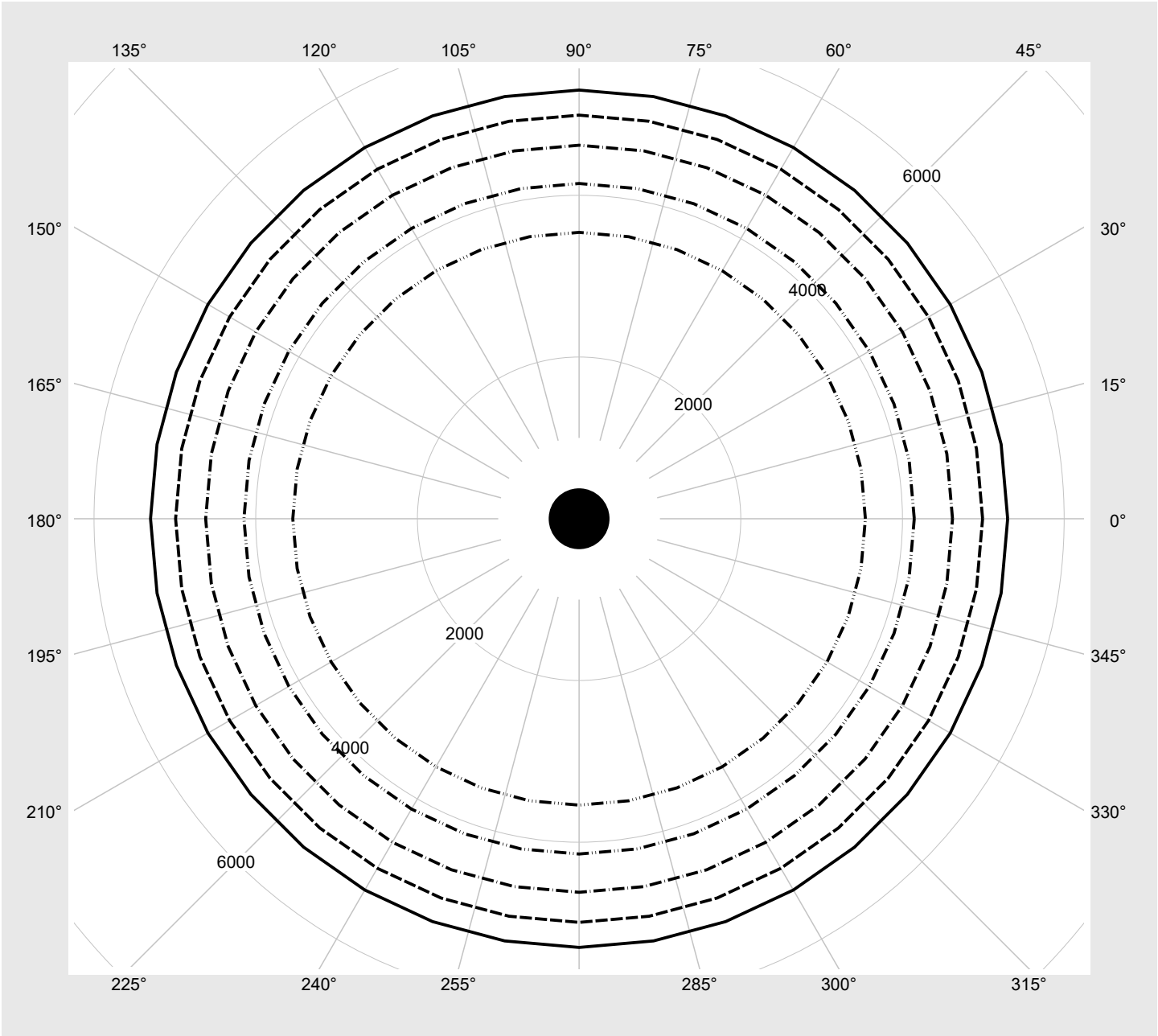
γ 70°

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	11880	70.8
95	241	252	11285	67.2
90	228	250	10688	63.6
85	215	248	10088	60.1
80	202	246	9486	56.5
75	190	243	8929	53.2
70	177	241	8323	49.6
65	164	238	7715	46.1
60	151	235	7107	42.7
55	139	232	6542	39.4
50	126	228	5930	35.9
45	114	225	5363	32.7
40	101	220	4746	29.2
35	89	216	4175	26.0
30	76	210	3554	22.6
25	64	204	2979	19.5
20	51	195	2354	16.1
15	39	185	1776	13.1
10	27	172	1196	10.0
5	15	150	614	6.8
0	3	91	31	3.4