

Photometric test report

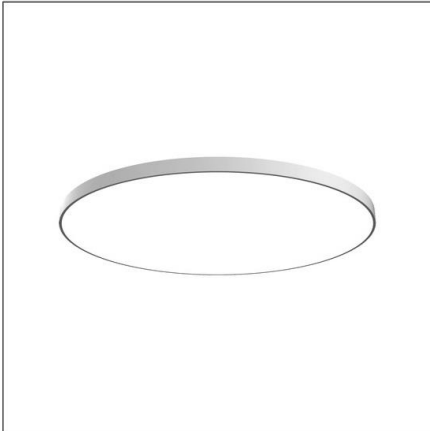
Family
Silica® 21 round L

Order number: 51MF21DCDNSA
EAN: 4069025806352

LP number
60073_54

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 ≥ 90

Controlgear

ECG-DALI

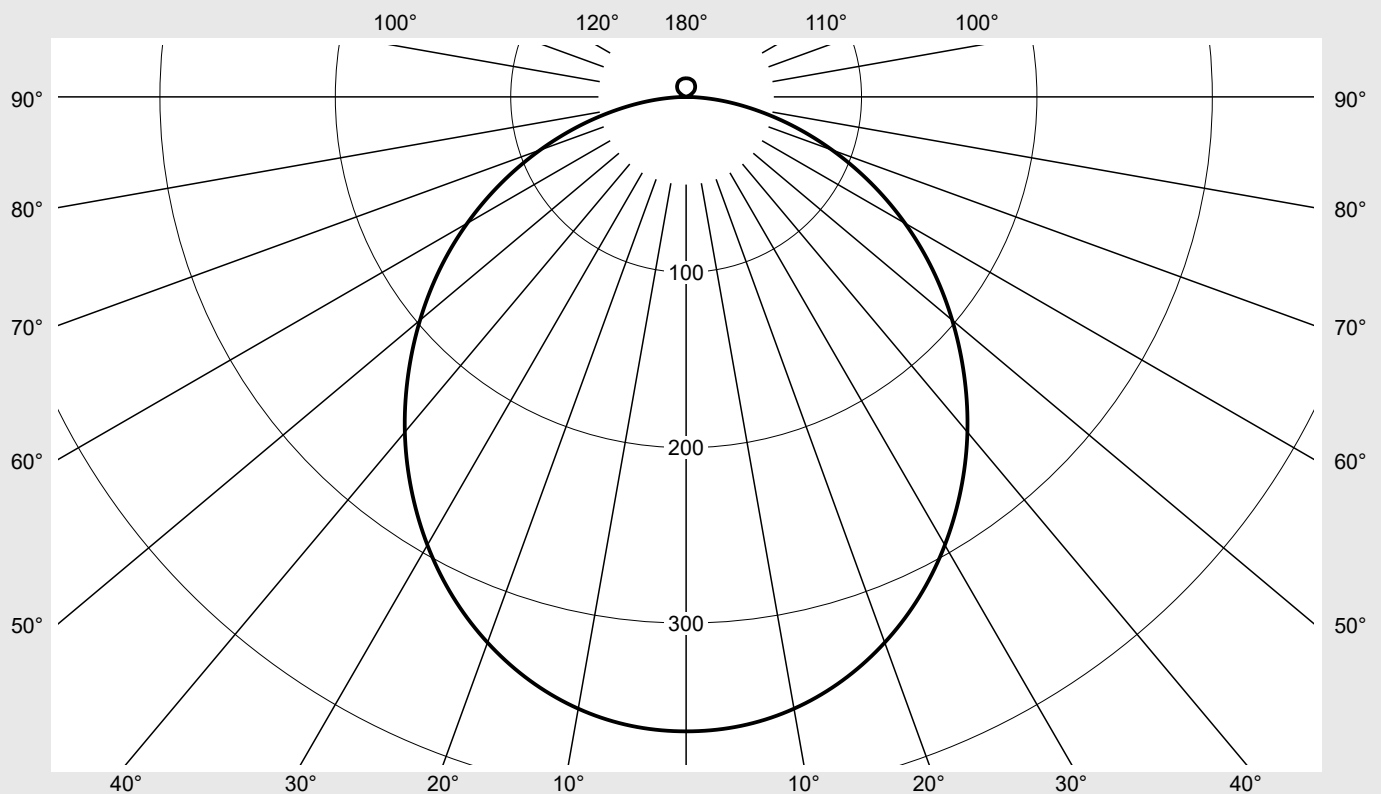
Rated values

Net luminous flux = 11880 lm
Power consumption = 74.5 W
Luminous efficacy = 159.5 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										sitemco	
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°

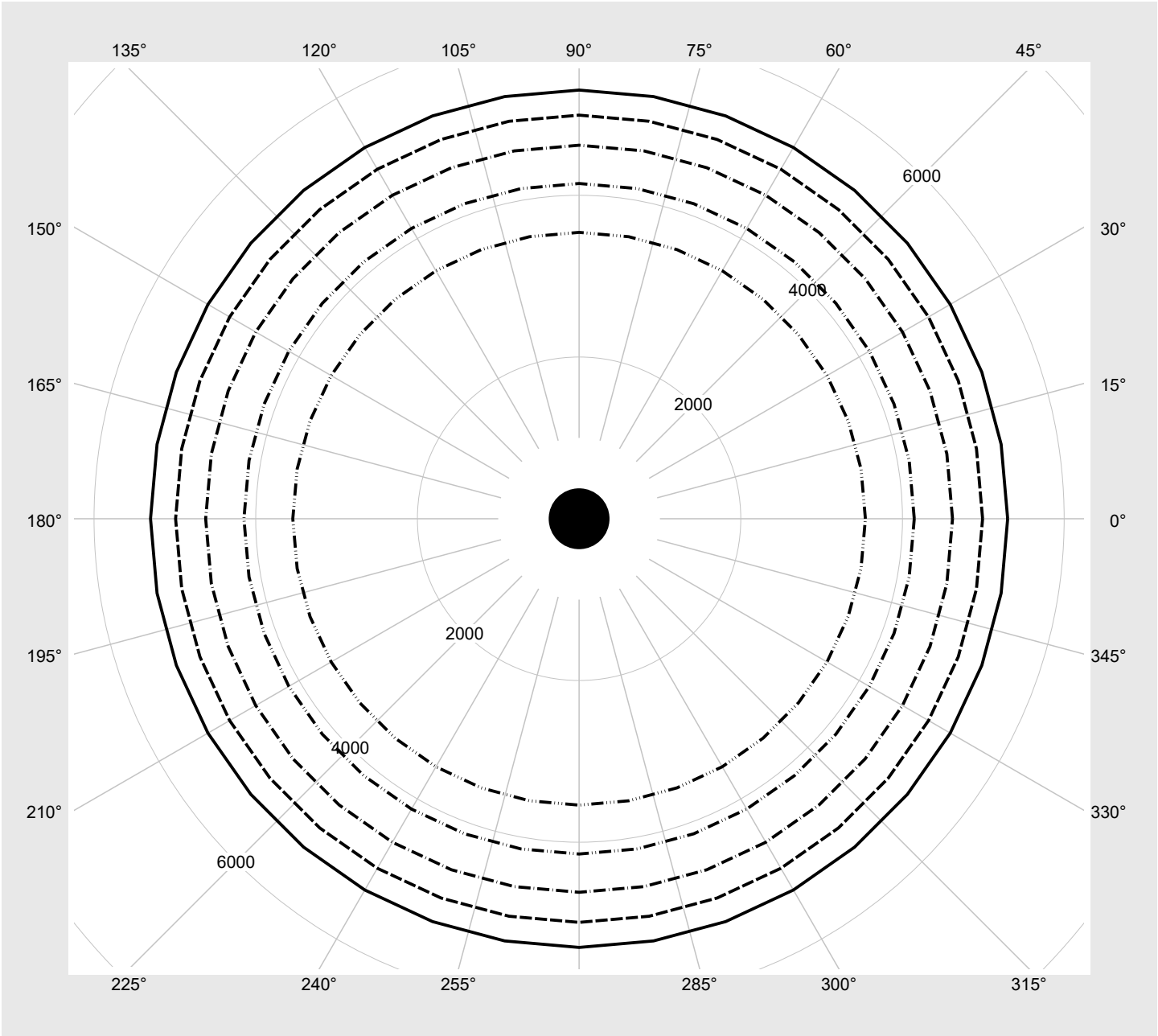
γ 70°

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	74.5
95	241	252	11297	70.7
90	228	250	10710	66.9
85	214	248	10076	62.8
80	201	245	9482	59.0
75	189	243	8932	55.6
70	176	241	8333	51.8
65	163	238	7732	48.1
60	150	235	7129	44.3
55	137	231	6523	40.6
50	125	228	5962	37.1
45	112	224	5352	33.6
40	99	219	4739	29.9
35	87	215	4170	26.5
30	74	209	3551	22.9
25	62	202	2976	19.6
20	50	194	2400	16.4
15	37	183	1773	12.9
10	25	169	1193	9.7
5	13	145	609	6.4
1	3	91	122	3.4