

Photometric test report

Family
Silica® 21 round L

Order number: 51MF31DCDNBA
EAN: 4069025807786

LP number
60084_12

serial
documentation
20.05.2026

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Version

Suspended luminaire, housing, black, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤22

Lamps

LED 3000 K | CRI ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 14400 lm

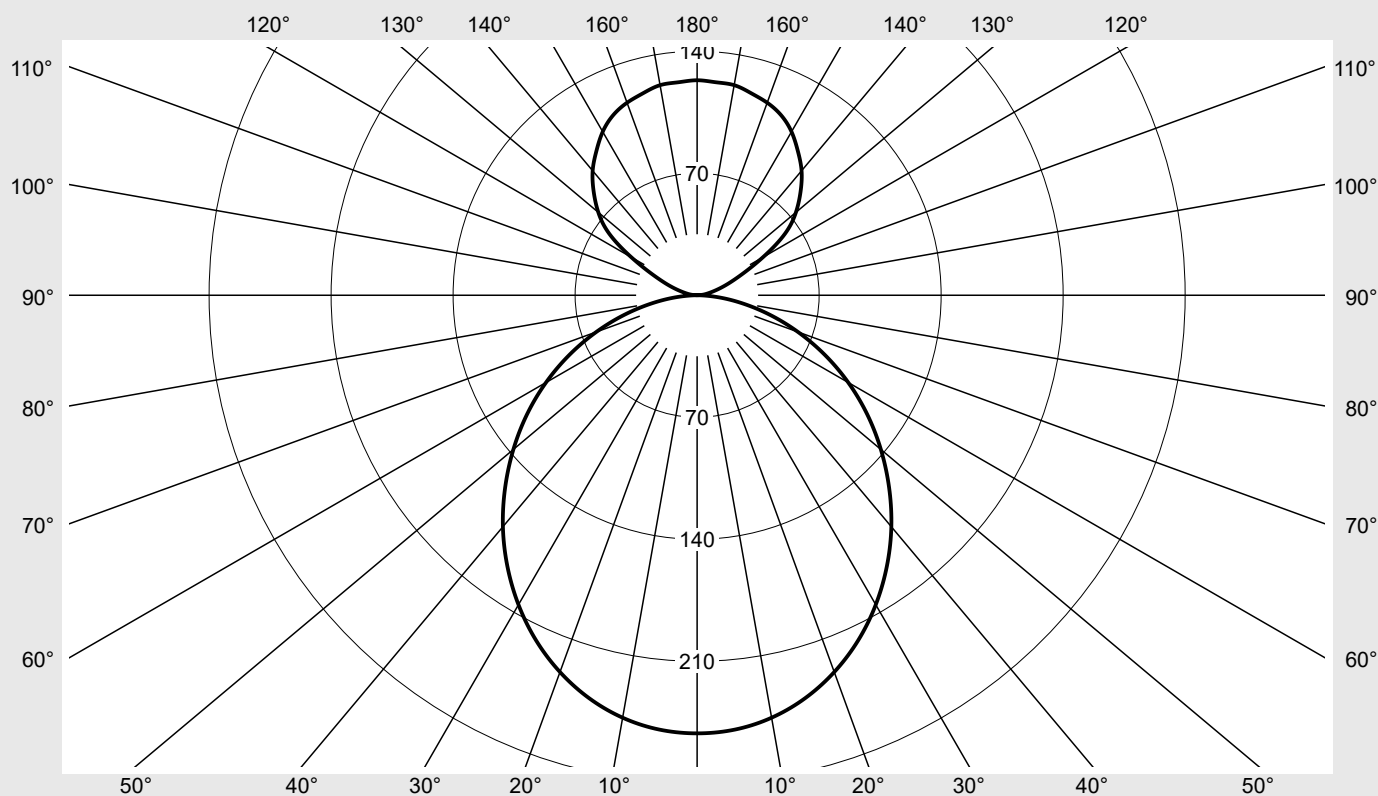
Power consumption = 90.2 W

Luminous efficacy = 159.6 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 251 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=68 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 67.6%
 ϕ_o 32.4%

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°	251.4	1.5	1.5
5°	250.1	11.9	13.5
10°	246.1	23.4	36.9
15°	239.3	34.0	70.8
20°	230.0	43.1	114.0
25°	218.5	50.6	164.6
30°	205.0	56.2	220.8
35°	189.8	59.7	280.4
40°	173.4	61.1	341.5
45°	155.7	60.4	401.9
50°	137.6	57.8	459.7
55°	119.2	53.5	513.2
60°	100.1	47.5	560.7
65°	80.8	40.1	600.8
70°	61.6	31.7	632.5
75°	43.1	22.8	655.4
80°	26.0	14.0	669.4
85°	11.1	6.1	675.5
90°	0.7	0.4	675.8
95°	2.8	1.5	677.4
100°	6.3	3.4	680.8
105°	11.1	5.9	686.7
110°	18.3	9.4	696.1
115°	28.2	14.0	710.1
120°	43.6	20.7	730.8
125°	61.5	27.6	758.5
130°	74.0	31.1	789.5
135°	83.9	32.5	822.1
140°	93.2	32.9	854.9
145°	100.8	31.7	886.6
150°	108.3	29.7	916.3
155°	114.0	26.4	942.7
160°	117.6	22.0	964.7
165°	120.0	17.0	981.8
170°	122.4	11.7	993.4
175°	122.7	5.9	999.3
180°	123.4	0.7	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	15.7	16.9	16.5	17.6	18.6	15.7	16.9	16.5	17.6
	3H	17.2	18.2	17.9	19.0	20.0	17.2	18.2	17.9	19.0
	4H	17.8	18.7	18.6	19.5	20.5	17.8	18.7	18.6	19.5
	6H	18.2	19.1	19.0	19.9	20.9	18.2	19.1	19.0	19.9
	8H	18.3	19.1	19.1	19.9	21.0	18.3	19.1	19.1	19.9
	12H	18.4	19.2	19.3	20.0	21.1	18.4	19.2	19.3	20.0
4H	2H	16.3	17.3	17.1	18.1	19.1	16.3	17.3	17.1	18.1
	3H	18.0	18.8	18.8	19.6	20.7	18.0	18.8	18.8	19.6
	4H	18.7	19.4	19.5	20.3	21.3	18.7	19.4	19.5	20.3
	6H	19.3	19.9	20.1	20.8	21.8	19.3	19.9	20.1	20.8
	8H	19.4	20.0	20.3	20.8	21.9	19.4	20.0	20.3	20.8
	12H	19.6	20.1	20.4	20.9	22.0	19.6	20.1	20.4	20.9
8H	4H	18.9	19.5	19.8	20.4	21.4	18.9	19.5	19.8	20.4
	6H	19.6	20.0	20.5	20.9	22.0	19.6	20.0	20.5	20.9
	8H	19.9	20.3	20.8	21.2	22.3	19.9	20.3	20.8	21.2
	12H	20.1	20.4	21.0	21.4	22.5	20.1	20.4	21.0	21.4
12H	4H	19.0	19.5	19.9	20.4	21.5	19.0	19.5	19.9	20.4
	6H	19.7	20.1	20.6	21.0	22.1	19.7	20.1	20.6	21.0
	8H	20.0	20.3	20.9	21.3	22.4	20.0	20.3	20.9	21.3

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 886
C-planes	0°		
γ	Luminance in cd/m²		
45°	5144.0		
50°	5000.4		
55°	4851.9		
60°	4677.3		
65°	4465.1		
70°	4204.0		
75°	3890.7		
80°	3492.1		
85°	2982.9		

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Luminance values in cd/m²

γ 65°

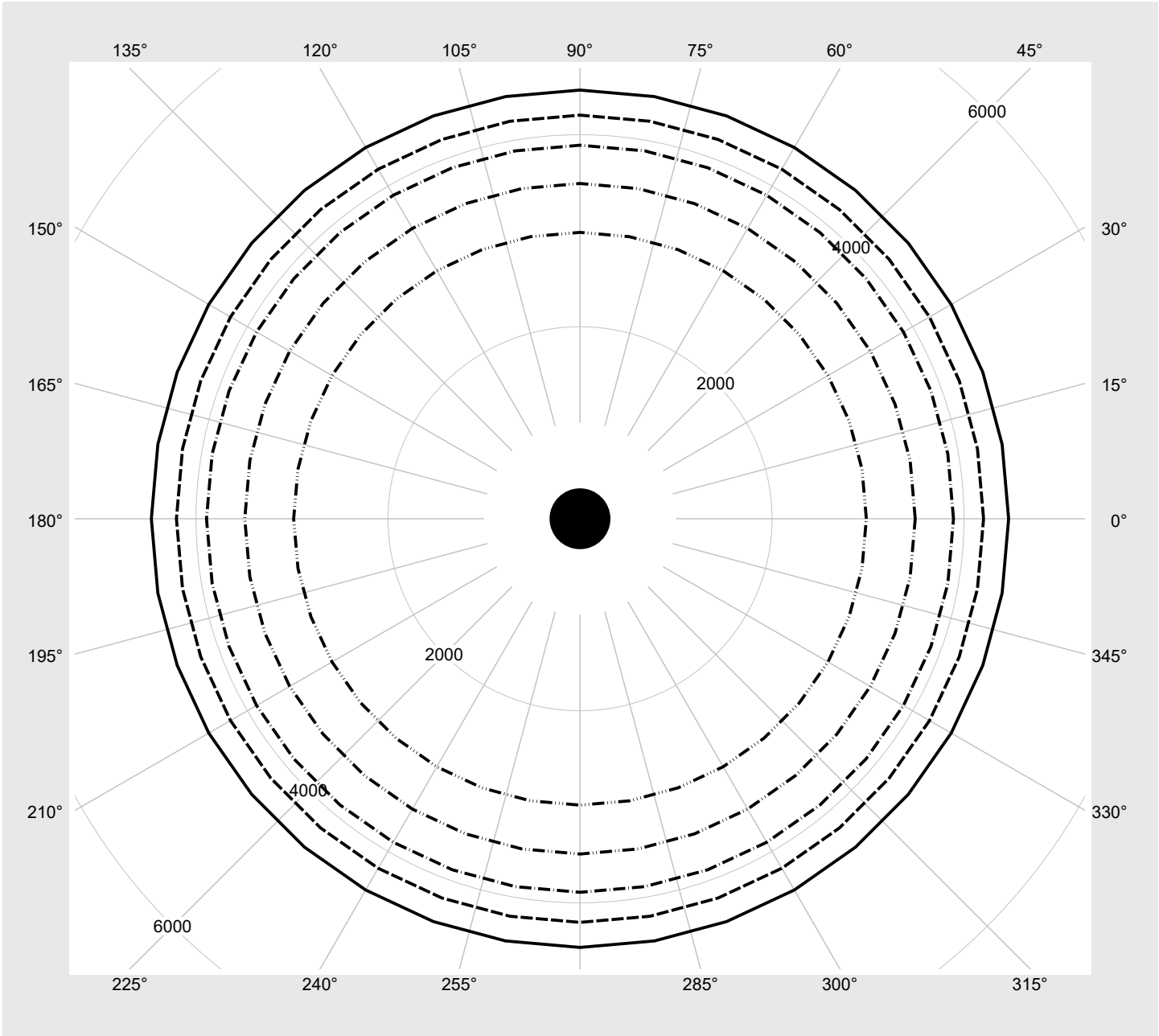
γ 70°

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	14400	90.2
95	241	252	13687	85.6
90	228	250	12973	81.0
85	215	248	12256	76.3
80	202	246	11537	71.7
75	189	243	10812	67.0
70	176	241	10086	62.4
65	163	238	9356	57.9
60	150	235	8623	53.4
55	138	232	7945	49.2
50	125	228	7208	44.8
45	112	224	6466	40.4
40	100	220	5779	36.2
35	87	215	5032	31.9
30	75	209	4341	28.0
25	62	202	3590	23.7
20	50	194	2893	19.5
15	37	183	2136	14.8
10	25	169	1434	10.4
5	13	145	731	6.1
3	8	127	437	4.3