

Photometric test report

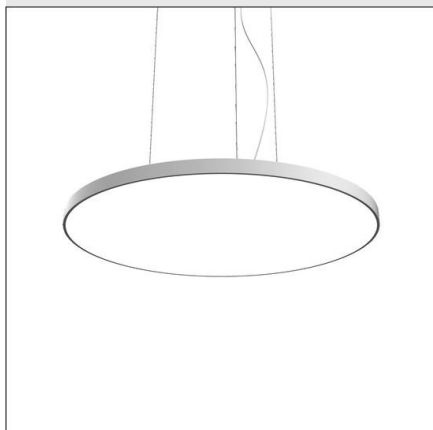
Family
Silica® 21 round L

Order number: 51MF41DCDNSA
EAN: 4069025809230

LP number
60071_108

serial
documentation
20.05.2026

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Version Suspended luminaire, housing, silver, cover, opal, direct extremely wide distribution, UGR≤22

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 11550 lm
Power consumption = 72.6 W
Luminous efficacy = 159.1 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 372 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=49 N2=79 N3=96
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

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°	372.1	2.2	2.2
5°	370.3	17.7	19.9
10°	364.3	34.7	54.6
15°	354.3	50.3	104.9
20°	340.6	63.8	168.7
25°	323.6	75.0	243.7
30°	303.5	83.2	326.8
35°	281.0	88.3	415.2
40°	256.7	90.4	505.6
45°	230.6	89.4	595.0
50°	203.7	85.5	680.5
55°	176.4	79.2	759.7
60°	148.2	70.4	830.1
65°	119.6	59.4	889.5
70°	91.1	46.9	936.5
75°	63.8	33.8	970.3
80°	38.4	20.7	991.0
85°	16.5	9.0	1000.0
90°	0.0	0.0	1000.0
95°	0.0	0.0	1000.0
100°	0.0	0.0	1000.0
105°	0.0	0.0	1000.0
110°	0.0	0.0	1000.0
115°	0.0	0.0	1000.0
120°	0.0	0.0	1000.0
125°	0.0	0.0	1000.0
130°	0.0	0.0	1000.0
135°	0.0	0.0	1000.0
140°	0.0	0.0	1000.0
145°	0.0	0.0	1000.0
150°	0.0	0.0	1000.0
155°	0.0	0.0	1000.0
160°	0.0	0.0	1000.0
165°	0.0	0.0	1000.0
170°	0.0	0.0	1000.0
175°	0.0	0.0	1000.0
180°	0.0	0.0	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
C-planes	0°			
γ	Luminance in cd/m²			
45°	6108.2			
50°	5937.7			
55°	5761.4			
60°	5554.0			
65°	5302.1			
70°	4992.0			
75°	4620.0			
80°	4146.6			
85°	3542.1			

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Luminance values in cd/m²

γ 65°

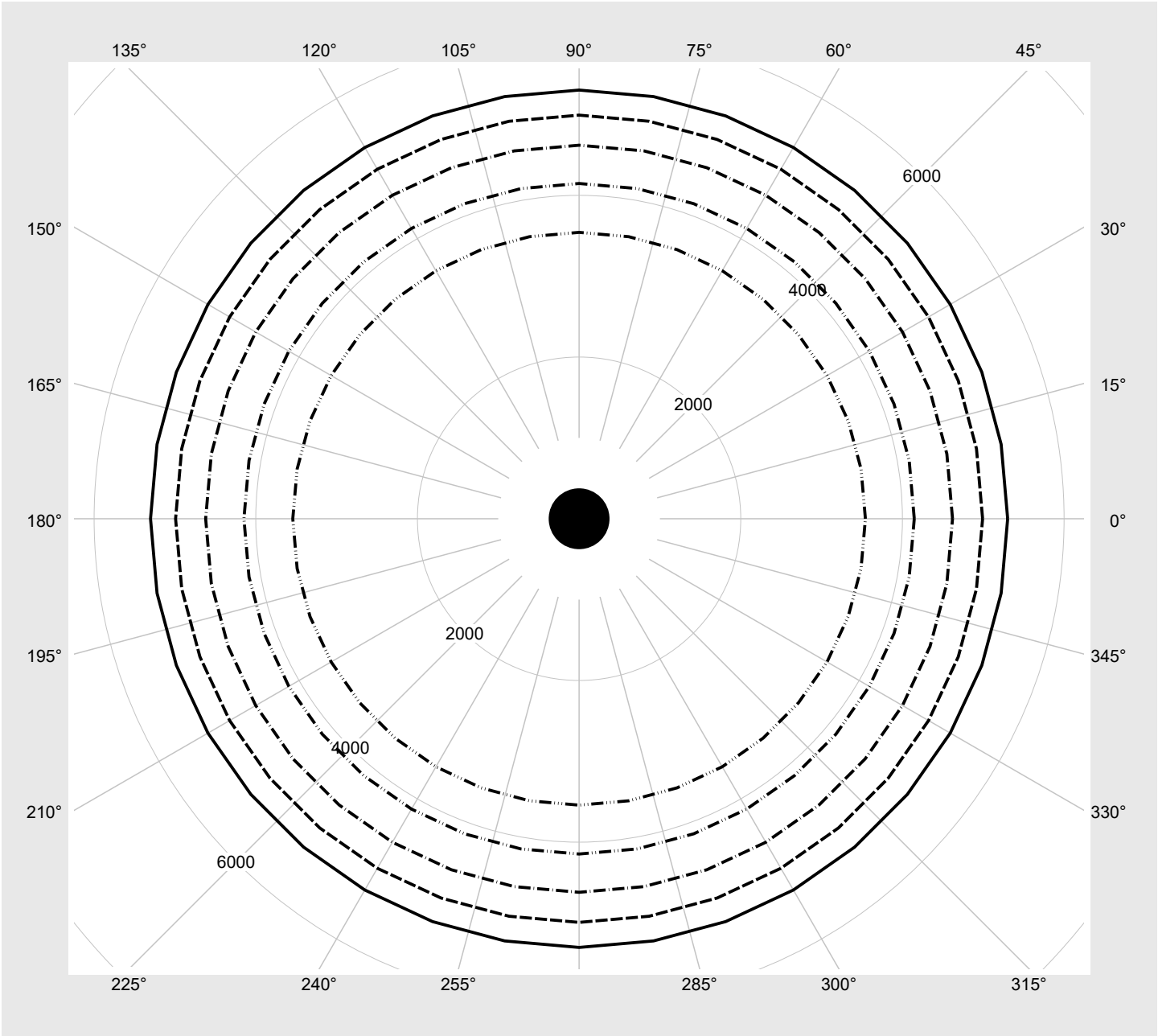
γ 70°

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	11550	72.6
95	241	252	10981	68.9
90	228	250	10410	65.1
85	215	248	9837	61.4
80	202	246	9259	57.8
75	189	243	8680	54.1
70	176	241	8097	50.4
65	163	238	7514	46.8
60	150	235	6927	43.2
55	137	231	6338	39.6
50	125	228	5793	36.3
45	112	224	5199	32.8
40	99	219	4602	29.1
35	87	215	4050	25.9
30	74	209	3448	22.4
25	62	202	2890	19.2
20	50	194	2330	16.0
15	37	183	1722	12.7
10	25	169	1157	9.6
5	13	145	591	6.4
1	3	91	118	3.4