

Photometric test report

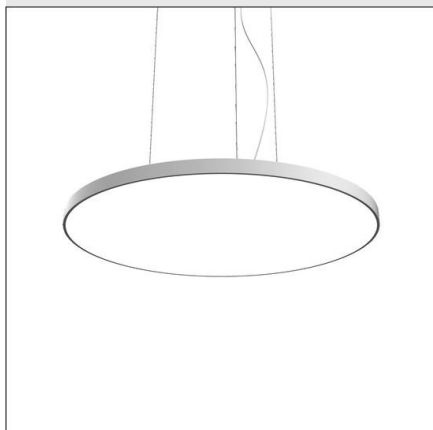
Family
Silica® 21 round L

Order number: 51ME31DC4NSA
EAN: 4069025804594

LP number
60085_9

serial
documentation
20.05.2026

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Version

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

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 14310 lm

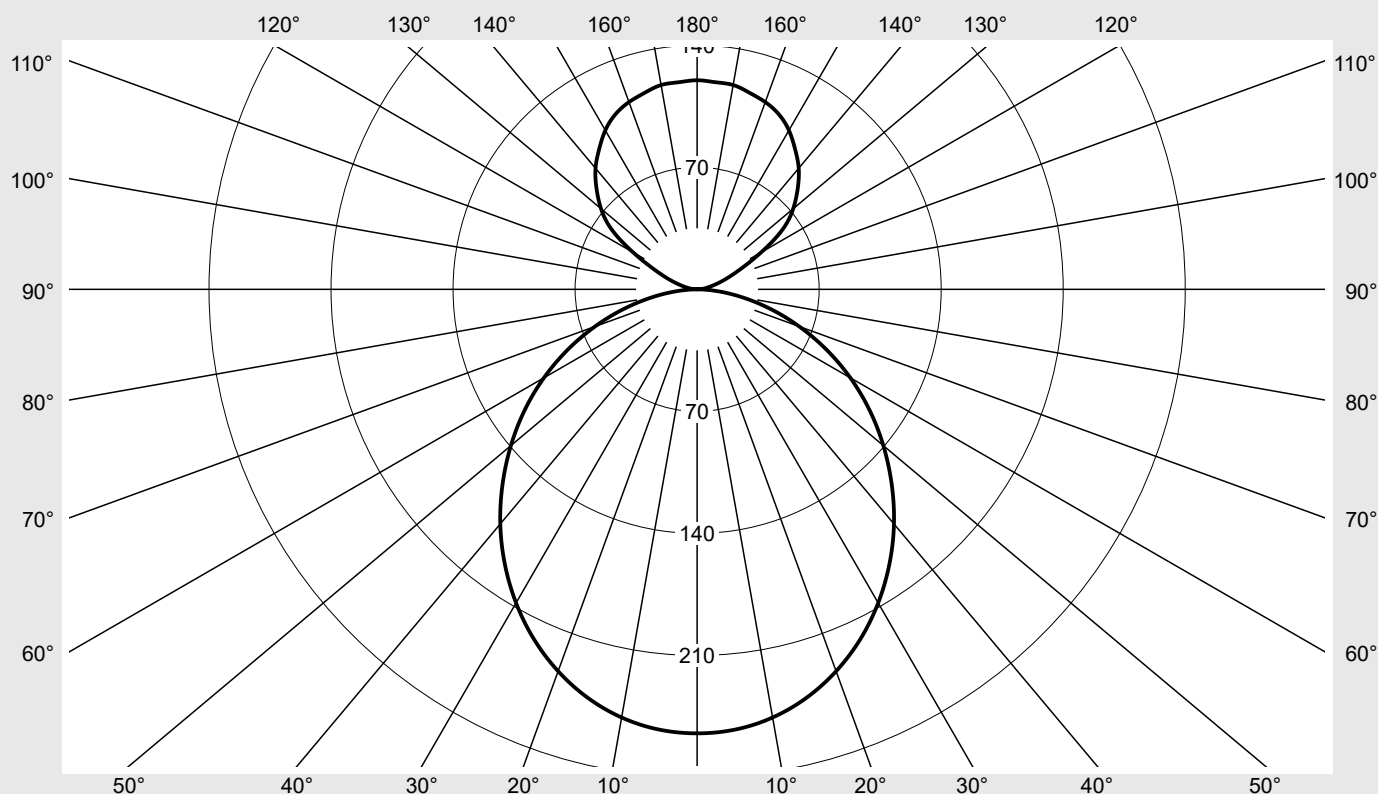
Power consumption = 88.7 W

Luminous efficacy = 161.3 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 255 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 68.5%
 ϕ_o 31.5%

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°	254.7	1.5	1.5
5°	253.4	12.1	13.6
10°	249.4	23.7	37.4
15°	242.5	34.4	71.8
20°	233.1	43.7	115.5
25°	221.5	51.3	166.8
30°	207.7	56.9	223.7
35°	192.3	60.5	284.2
40°	175.7	61.9	346.1
45°	157.8	61.2	407.2
50°	139.4	58.6	465.8
55°	120.7	54.2	520.0
60°	101.5	48.2	568.2
65°	81.9	40.7	608.8
70°	62.4	32.1	641.0
75°	43.7	23.1	664.1
80°	26.3	14.2	678.3
85°	11.3	6.2	684.5
90°	0.7	0.4	684.8
95°	2.7	1.5	686.3
100°	6.1	3.3	689.6
105°	10.8	5.7	695.4
110°	17.8	9.2	704.5
115°	27.5	13.6	718.2
120°	42.4	20.1	738.3
125°	59.8	26.9	765.2
130°	71.9	30.2	795.4
135°	81.6	31.6	827.0
140°	90.7	31.9	858.9
145°	98.0	30.8	889.7
150°	105.3	28.9	918.6
155°	110.8	25.7	944.3
160°	114.3	21.4	965.7
165°	116.6	16.5	982.3
170°	119.0	11.3	993.6
175°	119.3	5.7	999.3
180°	119.9	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	15.8	17.0	16.6	17.7	18.6	15.8	17.0	16.6	17.7	18.6
	3H	17.3	18.3	18.0	19.1	20.0	17.3	18.3	18.0	19.1	20.0
	4H	17.9	18.8	18.7	19.6	20.6	17.9	18.8	18.7	19.6	20.6
	6H	18.3	19.2	19.1	20.0	21.0	18.3	19.2	19.1	20.0	21.0
	8H	18.4	19.2	19.2	20.0	21.1	18.4	19.2	19.2	20.0	21.1
	12H	18.5	19.3	19.3	20.1	21.1	18.5	19.3	19.3	20.1	21.1
4H	2H	16.4	17.4	17.2	18.2	19.2	16.4	17.4	17.2	18.2	19.2
	3H	18.1	18.9	18.9	19.7	20.7	18.1	18.9	18.9	19.7	20.7
	4H	18.8	19.5	19.6	20.4	21.4	18.8	19.5	19.6	20.4	21.4
	6H	19.4	20.0	20.2	20.9	21.9	19.4	20.0	20.2	20.9	21.9
	8H	19.5	20.1	20.4	20.9	22.0	19.5	20.1	20.4	20.9	22.0
	12H	19.7	20.2	20.5	21.0	22.1	19.7	20.2	20.5	21.0	22.1
8H	4H	19.0	19.6	19.9	20.5	21.5	19.0	19.6	19.9	20.5	21.5
	6H	19.7	20.1	20.6	21.0	22.1	19.7	20.1	20.6	21.0	22.1
	8H	20.0	20.4	20.8	21.3	22.4	20.0	20.4	20.8	21.3	22.4
	12H	20.2	20.5	21.1	21.4	22.6	20.2	20.5	21.1	21.4	22.6
12H	4H	19.1	19.6	19.9	20.5	21.5	19.1	19.6	19.9	20.5	21.5
	6H	19.8	20.2	20.7	21.1	22.2	19.8	20.2	20.7	21.1	22.2
	8H	20.1	20.4	21.0	21.3	22.5	20.1	20.4	21.0	21.3	22.5

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 886
C-planes		0°		
γ	Luminance in cd/m²			
45°	5179.9			
50°	5035.4			
55°	4885.8			
60°	4709.9			
65°	4496.3			
70°	4233.3			
75°	3917.9			
80°	3516.4			
85°	3004.0			

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Luminance values in cd/m²

γ 65°

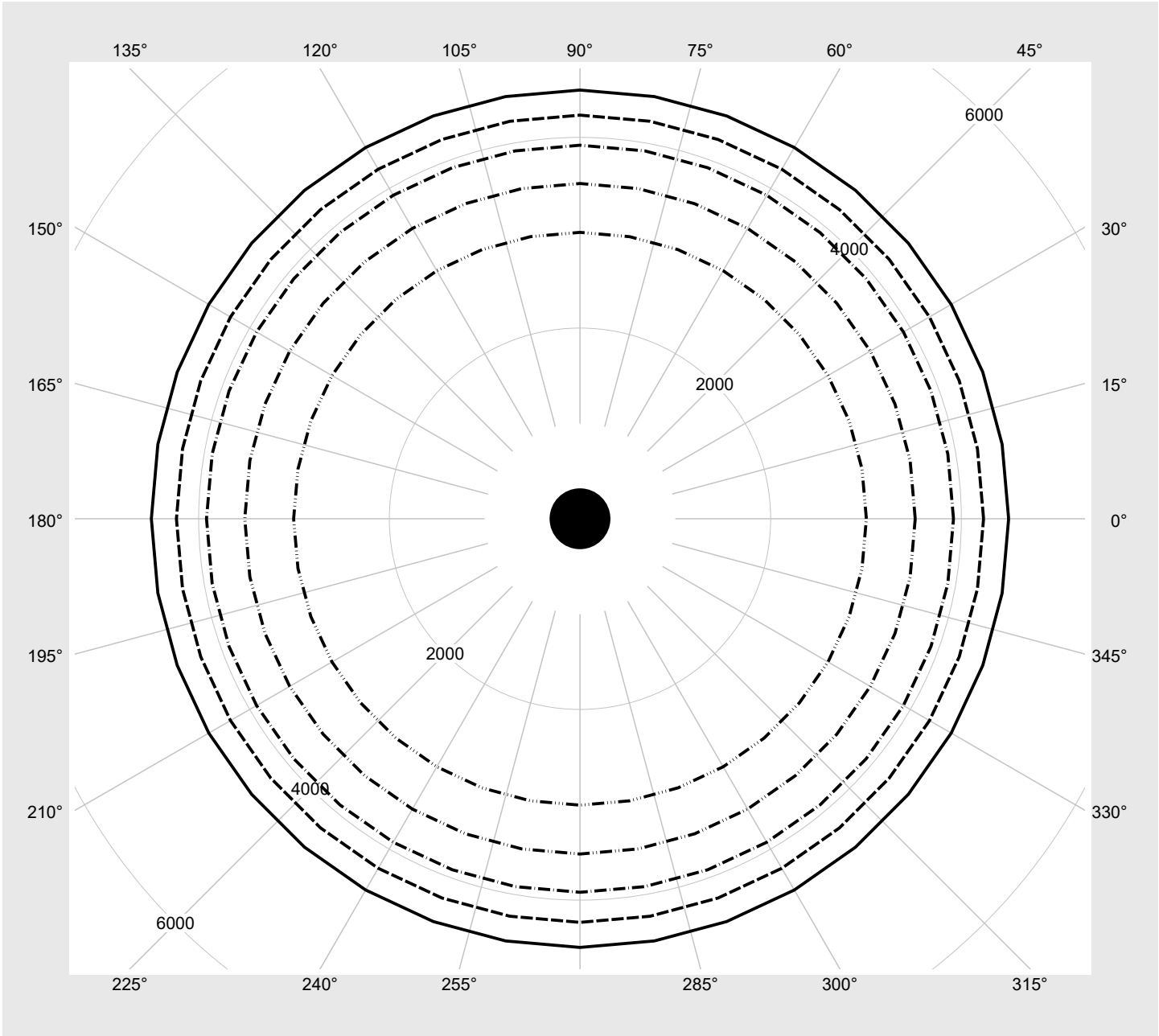
γ 70°

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	14310	88.7
95	241	252	13582	84.3
90	228	250	12853	79.8
85	216	248	12179	75.6
80	203	246	11448	71.2
75	190	243	10714	66.7
70	178	241	10035	62.6
65	165	238	9299	58.2
60	152	235	8561	53.7
55	140	232	7879	49.6
50	127	229	7139	45.3
45	115	225	6454	41.3
40	102	221	5710	36.9
35	90	216	5024	32.9
30	77	210	4280	28.8
25	65	204	3590	24.9
20	52	196	2843	20.4
15	40	186	2152	16.2
10	28	173	1460	11.8
5	15	150	709	7.0
2	8	127	304	4.5