

Photometric test report

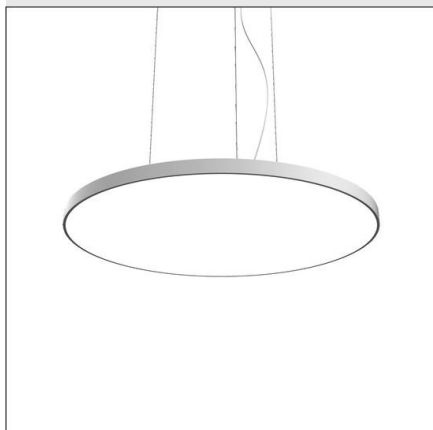
Family
Silica® 21 round L

Order number: 51MF31DC3NSA
EAN: 4069025807670

LP number
60085_10

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 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 15000 lm

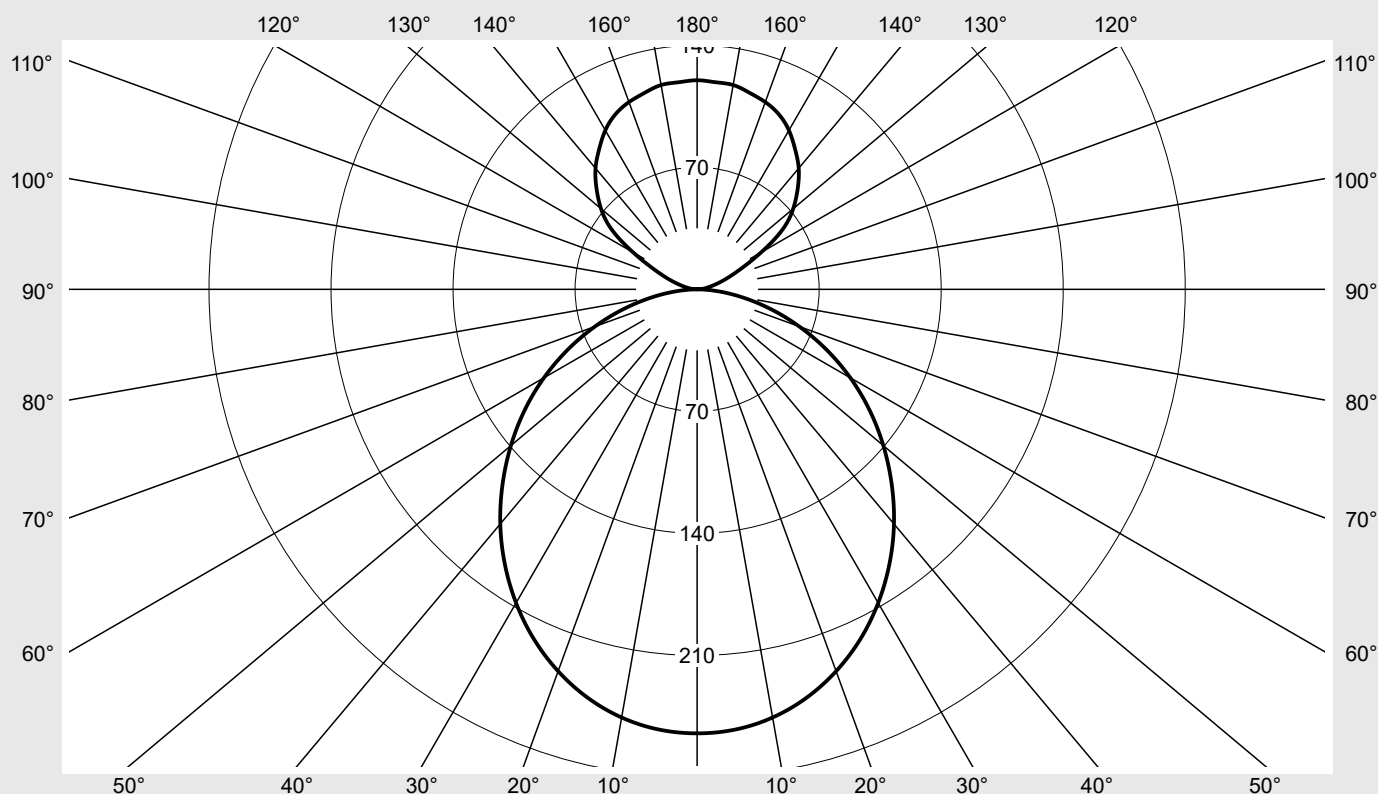
Power consumption = 88.9 W

Luminous efficacy = 168.7 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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Family Silica® 21 round L			Order number: 51MF31DC3NSA EAN: 4069025807670							LP number 60085_10	
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	16.0	17.1	16.7	17.9	18.8	16.0	17.1	16.7	17.9	18.8
	3H	17.4	18.4	18.2	19.2	20.2	17.4	18.4	18.2	19.2	20.2
	4H	18.0	19.0	18.8	19.8	20.8	18.0	19.0	18.8	19.8	20.8
	6H	18.5	19.4	19.3	20.2	21.2	18.5	19.4	19.3	20.2	21.2
	8H	18.6	19.4	19.4	20.2	21.2	18.6	19.4	19.4	20.2	21.2
	12H	18.7	19.4	19.5	20.3	21.3	18.7	19.4	19.5	20.3	21.3
4H	2H	16.6	17.5	17.4	18.3	19.3	16.6	17.5	17.4	18.3	19.3
	3H	18.3	19.1	19.1	19.9	20.9	18.3	19.1	19.1	19.9	20.9
	4H	19.0	19.7	19.8	20.5	21.6	19.0	19.7	19.8	20.5	21.6
	6H	19.5	20.2	20.4	21.0	22.1	19.5	20.2	20.4	21.0	22.1
	8H	19.7	20.2	20.5	21.1	22.2	19.7	20.2	20.5	21.1	22.2
	12H	19.8	20.3	20.7	21.2	22.3	19.8	20.3	20.7	21.2	22.3
8H	4H	19.2	19.7	20.0	20.6	21.7	19.2	19.7	20.0	20.6	21.7
	6H	19.8	20.3	20.7	21.2	22.3	19.8	20.3	20.7	21.2	22.3
	8H	20.1	20.5	21.0	21.4	22.5	20.1	20.5	21.0	21.4	22.5
	12H	20.4	20.7	21.3	21.6	22.7	20.4	20.7	21.3	21.6	22.7
12H	4H	19.2	19.7	20.1	20.6	21.7	19.2	19.7	20.1	20.6	21.7
	6H	20.0	20.4	20.8	21.3	22.4	20.0	20.4	20.8	21.3	22.4
	8H	20.3	20.6	21.1	21.5	22.6	20.3	20.6	21.1	21.5	22.6

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 886
C-planes				
	0°			
γ	Luminance in cd/m²			
45°	5429.7			
50°	5278.2			
55°	5121.3			
60°	4937.0			
65°	4713.1			
70°	4437.5			
75°	4106.8			
80°	3686.0			
85°	3148.8			

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Luminance values in cd/m²

γ 65°

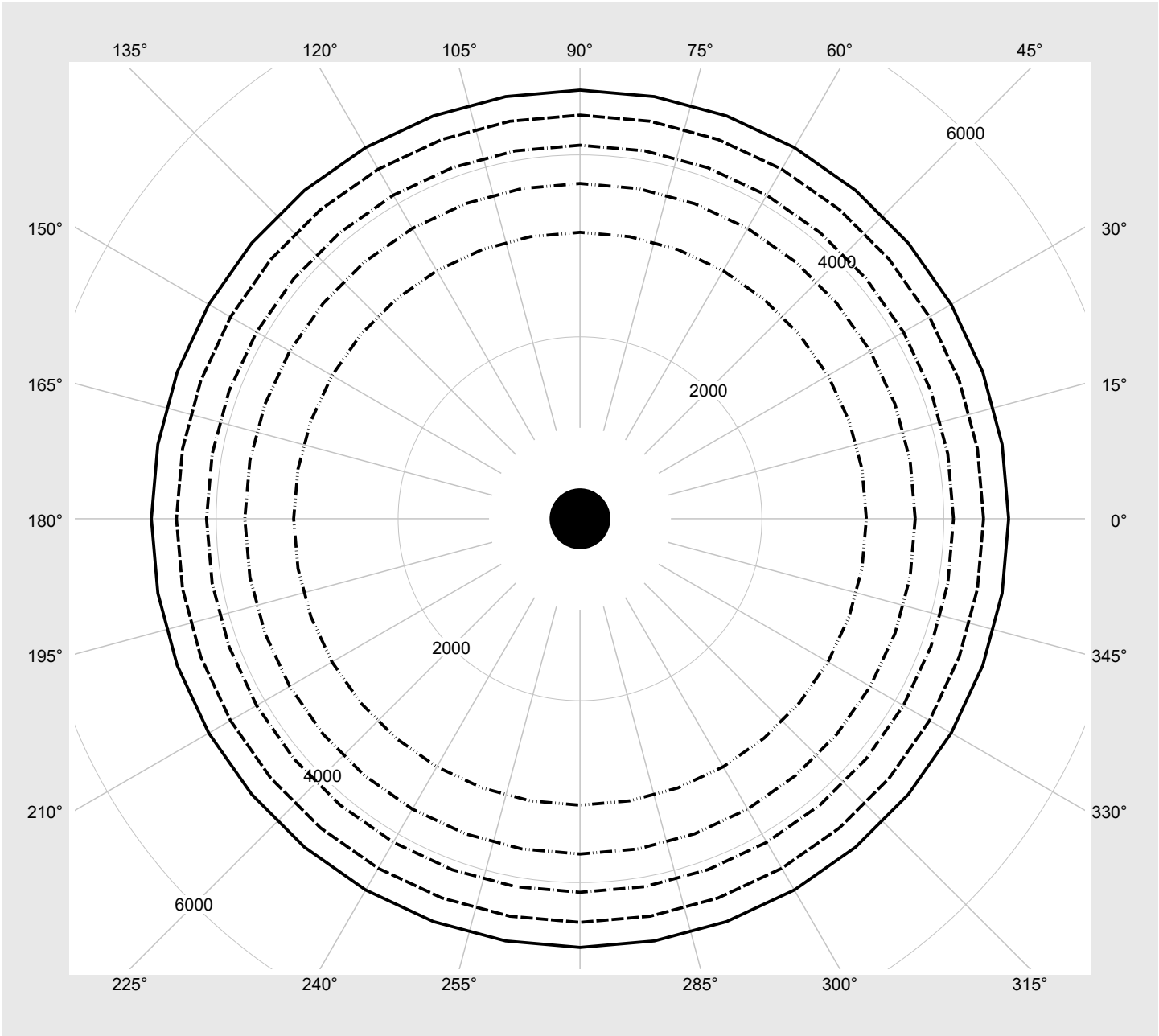
γ 70°

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	15000	88.9
95	241	252	14245	84.4
90	228	250	13489	79.9
85	215	248	12730	75.3
80	203	246	12029	71.2
75	190	243	11264	66.6
70	177	241	10499	62.1
65	164	238	9730	57.7
60	152	235	9017	53.6
55	139	232	8245	49.1
50	126	228	7471	44.8
45	114	225	6751	40.7
40	101	220	5972	36.3
35	89	216	5250	32.3
30	77	210	4527	28.5
25	64	204	3740	24.3
20	52	196	3013	20.1
15	39	185	2222	15.5
10	27	172	1490	11.2
5	15	150	757	6.8
2	8	127	327	4.3