

Photometric test report

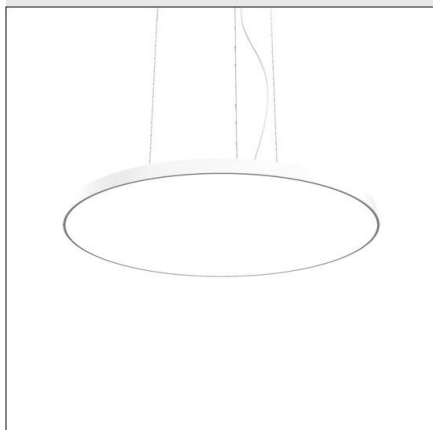
Family
Silica® 21 round L

Order number: 51MF31DC4NWA
EAN: 4069025807755

LP number
60083_11

serial
documentation
20.05.2026

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Version

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

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 16060 lm

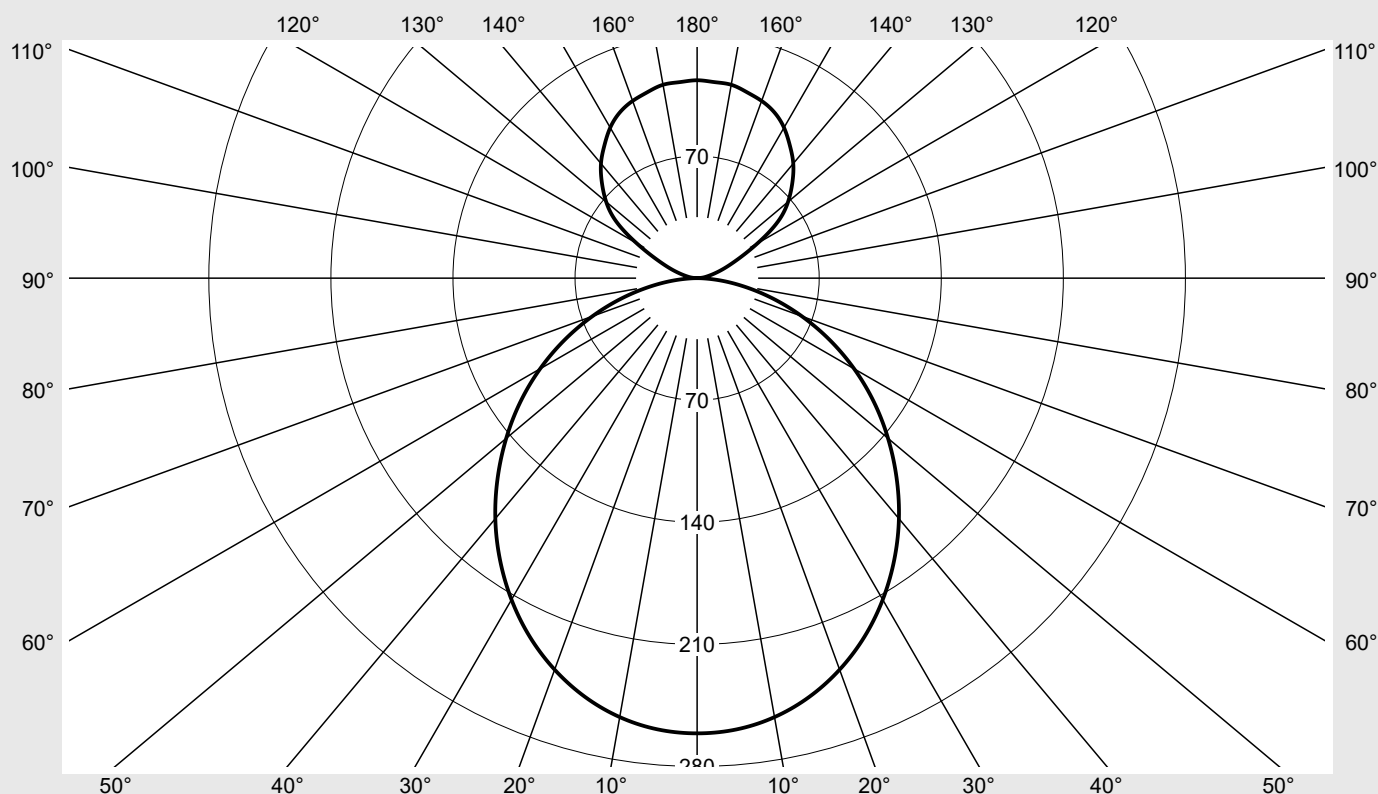
Power consumption = 88.8 W

Luminous efficacy = 180.9 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 261 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=70 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 70.2%
 ϕ_o 29.8%

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°	261.0	1.6	1.6
5°	259.7	12.4	14.0
10°	255.6	24.3	38.3
15°	248.6	35.3	73.6
20°	238.9	44.8	118.3
25°	227.0	52.6	170.9
30°	212.9	58.3	229.3
35°	197.1	62.0	291.2
40°	180.0	63.4	354.7
45°	161.7	62.7	417.3
50°	142.9	60.0	477.4
55°	123.7	55.6	532.9
60°	104.0	49.4	582.3
65°	83.9	41.7	623.9
70°	63.9	32.9	656.9
75°	44.8	23.7	680.6
80°	27.0	14.6	695.1
85°	11.6	6.3	701.4
90°	0.6	0.3	701.8
95°	2.6	1.4	703.2
100°	5.8	3.1	706.3
105°	10.2	5.4	711.8
110°	16.8	8.7	720.4
115°	26.0	12.9	733.3
120°	40.1	19.0	752.4
125°	56.6	25.4	777.8
130°	68.1	28.6	806.4
135°	77.2	29.9	836.3
140°	85.8	30.2	866.5
145°	92.8	29.2	895.7
150°	99.6	27.3	923.0
155°	104.9	24.3	947.3
160°	108.1	20.3	967.6
165°	110.4	15.7	983.2
170°	112.6	10.7	993.9
175°	112.9	5.4	999.3
180°	113.5	0.7	1000.0

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Family Silica® 21 round L			Order number: 51MF31DC4NWA EAN: 4069025807755							LP number 60083_11	
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	16.4	17.6	17.1	18.3	19.2	16.4	17.6	17.1	18.3	19.2
	3H	17.9	18.9	18.6	19.7	20.6	17.9	18.9	18.6	19.7	20.6
	4H	18.5	19.5	19.3	20.2	21.2	18.5	19.5	19.3	20.2	21.2
	6H	18.9	19.8	19.7	20.6	21.6	18.9	19.8	19.7	20.6	21.6
	8H	19.0	19.8	19.8	20.7	21.7	19.0	19.8	19.8	20.7	21.7
	12H	19.1	19.9	19.9	20.7	21.7	19.1	19.9	19.9	20.7	21.7
4H	2H	17.0	18.0	17.8	18.8	19.7	17.0	18.0	17.8	18.8	19.7
	3H	18.7	19.5	19.5	20.3	21.3	18.7	19.5	19.5	20.3	21.3
	4H	19.4	20.2	20.2	21.0	22.0	19.4	20.2	20.2	21.0	22.0
	6H	20.0	20.6	20.8	21.5	22.5	20.0	20.6	20.8	21.5	22.5
	8H	20.1	20.7	21.0	21.5	22.6	20.1	20.7	21.0	21.5	22.6
	12H	20.3	20.8	21.1	21.6	22.7	20.3	20.8	21.1	21.6	22.7
8H	4H	19.6	20.2	20.5	21.1	22.1	19.6	20.2	20.5	21.1	22.1
	6H	20.3	20.8	21.2	21.6	22.7	20.3	20.8	21.2	21.6	22.7
	8H	20.6	21.0	21.5	21.9	23.0	20.6	21.0	21.5	21.9	23.0
	12H	20.8	21.2	21.7	22.1	23.1	20.8	21.2	21.7	22.1	23.1
12H	4H	19.7	20.2	20.5	21.1	22.1	19.7	20.2	20.5	21.1	22.1
	6H	20.4	20.8	21.3	21.7	22.8	20.4	20.8	21.3	21.7	22.8
	8H	20.7	21.1	21.6	22.0	23.0	20.7	21.1	21.6	22.0	23.0

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 886
C-planes				
	0°			
γ	Luminance in cd/m²			
45°	5957.6			
50°	5791.4			
55°	5619.3			
60°	5417.1			
65°	5171.3			
70°	4869.0			
75°	4506.1			
80°	4044.4			
85°	3455.0			

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Luminance values in cd/m²

γ 65°

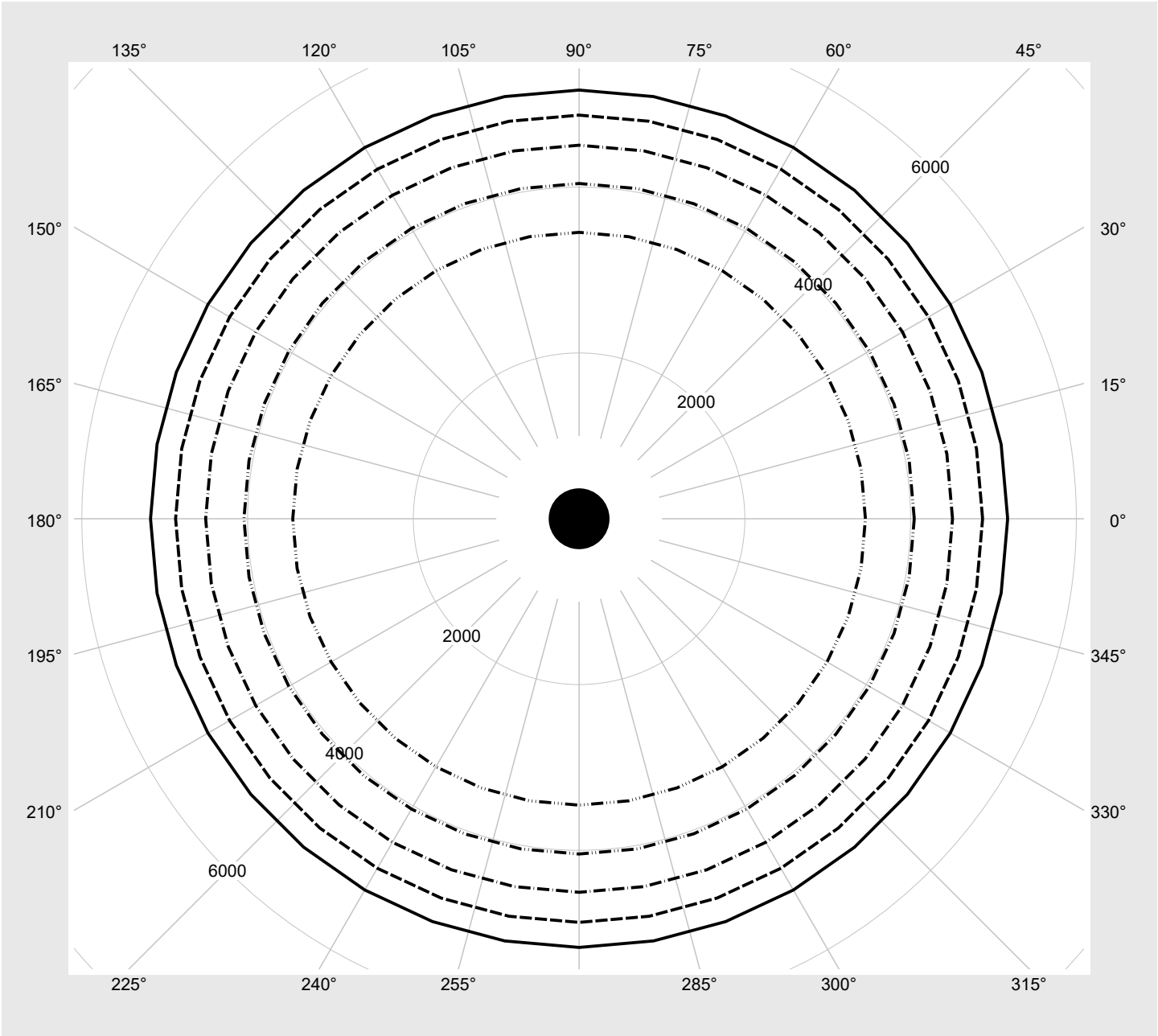
γ 70°

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	16060	88.8
95	241	252	15248	84.4
90	228	250	14435	79.9
85	216	248	13683	75.7
80	203	246	12865	71.2
75	190	243	12044	66.6
70	177	241	11221	62.1
65	165	238	10458	58.1
60	152	235	9629	53.6
55	140	232	8862	49.4
50	127	229	8031	45.1
45	115	225	7256	41.1
40	102	221	6418	36.7
35	90	216	5642	32.6
30	77	210	4800	28.5
25	65	204	4017	24.6
20	53	197	3235	20.5
15	40	186	2384	15.9
10	28	173	1597	11.5
5	16	153	808	7.2
2	8	127	278	4.3