

Photometric test report

Family
Silica® 21 round L

Order number: 51MF31DCENWA
EAN: 4069025807878

LP number
60083_13

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 ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 14980 lm

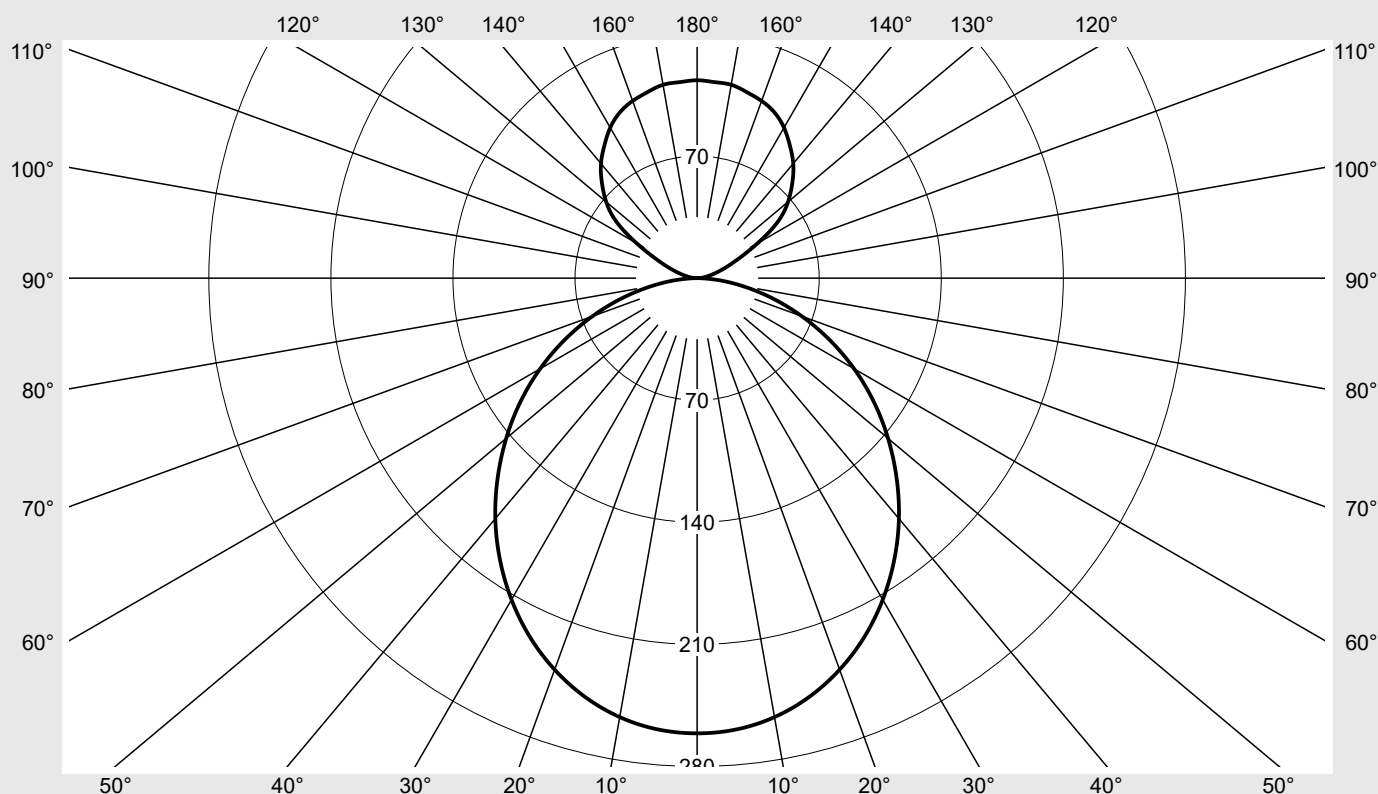
Power consumption = 90.2 W

Luminous efficacy = 166.1 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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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	16.2	17.3	16.9	18.1	19.0	16.2	17.3	16.9	18.1	19.0
	3H	17.6	18.7	18.4	19.4	20.4	17.6	18.7	18.4	19.4	20.4
	4H	18.2	19.2	19.0	20.0	20.9	18.2	19.2	19.0	20.0	20.9
	6H	18.7	19.6	19.5	20.4	21.4	18.7	19.6	19.5	20.4	21.4
	8H	18.8	19.6	19.6	20.4	21.4	18.8	19.6	19.6	20.4	21.4
	12H	18.9	19.7	19.7	20.5	21.5	18.9	19.7	19.7	20.5	21.5
4H	2H	16.8	17.8	17.6	18.5	19.5	16.8	17.8	17.6	18.5	19.5
	3H	18.5	19.3	19.3	20.1	21.1	18.5	19.3	19.3	20.1	21.1
	4H	19.2	19.9	20.0	20.7	21.7	19.2	19.9	20.0	20.7	21.7
	6H	19.8	20.4	20.6	21.2	22.2	19.8	20.4	20.6	21.2	22.2
	8H	19.9	20.4	20.7	21.3	22.3	19.9	20.4	20.7	21.3	22.3
	12H	20.0	20.5	20.9	21.4	22.5	20.0	20.5	20.9	21.4	22.5
8H	4H	19.4	20.0	20.2	20.8	21.9	19.4	20.0	20.2	20.8	21.9
	6H	20.1	20.5	20.9	21.4	22.5	20.1	20.5	20.9	21.4	22.5
	8H	20.3	20.8	21.2	21.6	22.7	20.3	20.8	21.2	21.6	22.7
	12H	20.6	20.9	21.5	21.8	22.9	20.6	20.9	21.5	21.8	22.9
12H	4H	19.5	20.0	20.3	20.8	21.9	19.5	20.0	20.3	20.8	21.9
	6H	20.2	20.6	21.0	21.5	22.5	20.2	20.6	21.0	21.5	22.5
	8H	20.5	20.8	21.4	21.7	22.8	20.5	20.8	21.4	21.7	22.8

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 886
C-planes	0°		
γ	Luminance in cd/m²		
45°	5557.0		
50°	5401.9		
55°	5241.4		
60°	5052.8		
65°	4823.6		
70°	4541.6		
75°	4203.1		
80°	3772.4		
85°	3222.7		

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Luminance values in cd/m²

γ 65°

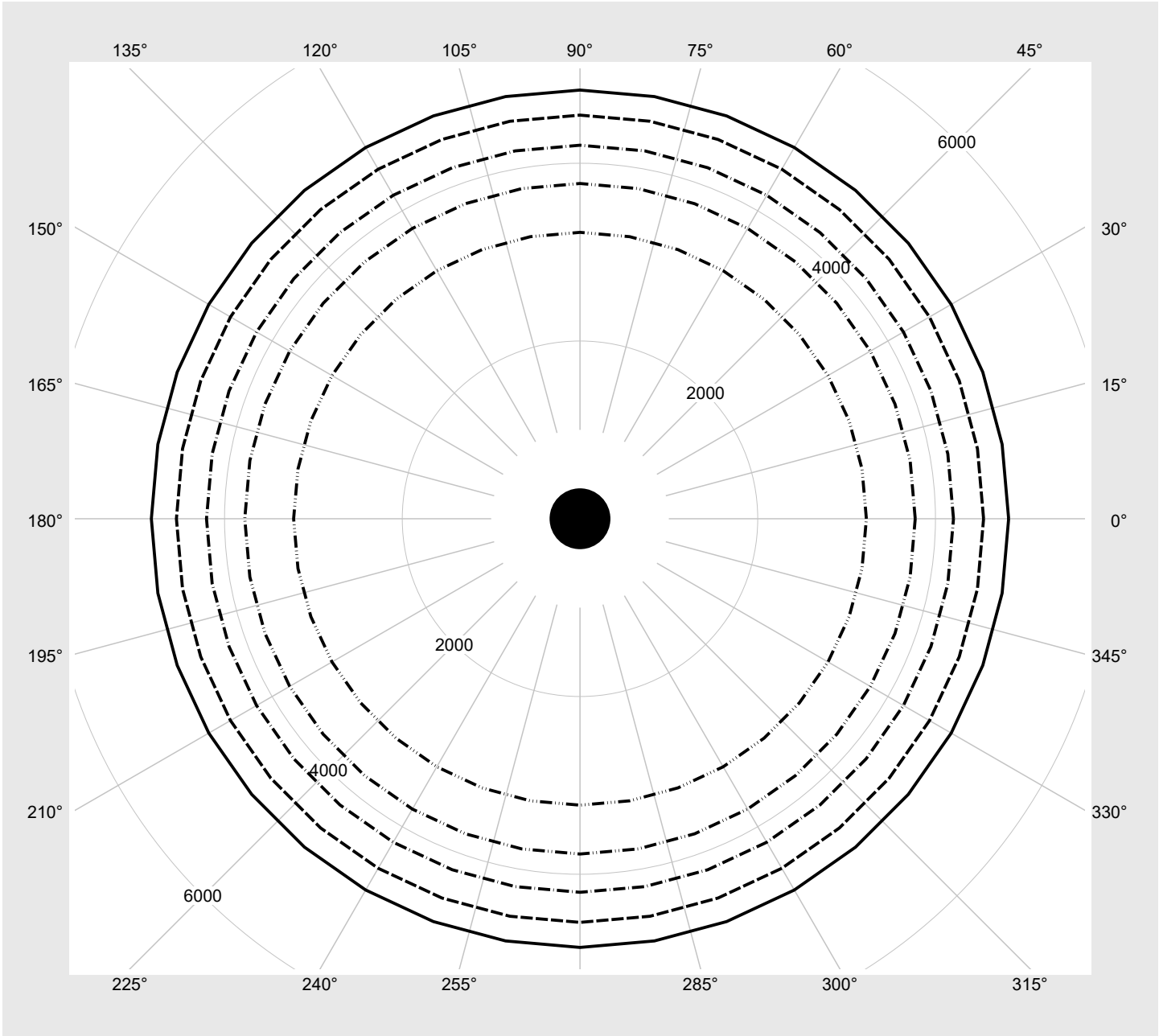
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14980	90.2
95	241	252	14239	85.6
90	228	250	13497	81.0
85	215	248	12751	76.3
80	202	246	12003	71.7
75	189	243	11250	67.0
70	176	241	10494	62.4
65	163	238	9735	57.9
60	150	235	8973	53.4
55	138	232	8267	49.2
50	125	228	7500	44.8
45	112	224	6728	40.4
40	100	220	6013	36.2
35	87	215	5237	31.9
30	75	209	4518	28.0
25	62	202	3736	23.7
20	50	194	3011	19.5
15	37	183	2223	14.8
10	25	169	1492	10.4
5	13	145	761	6.1
3	8	127	455	4.3