

Photometric test report

Family
Silica® 21 round L

Order number: 51MF31DCDNEW
EAN: 4069025807816

LP number
60083_12

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 3000 K | CRI ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 14850 lm

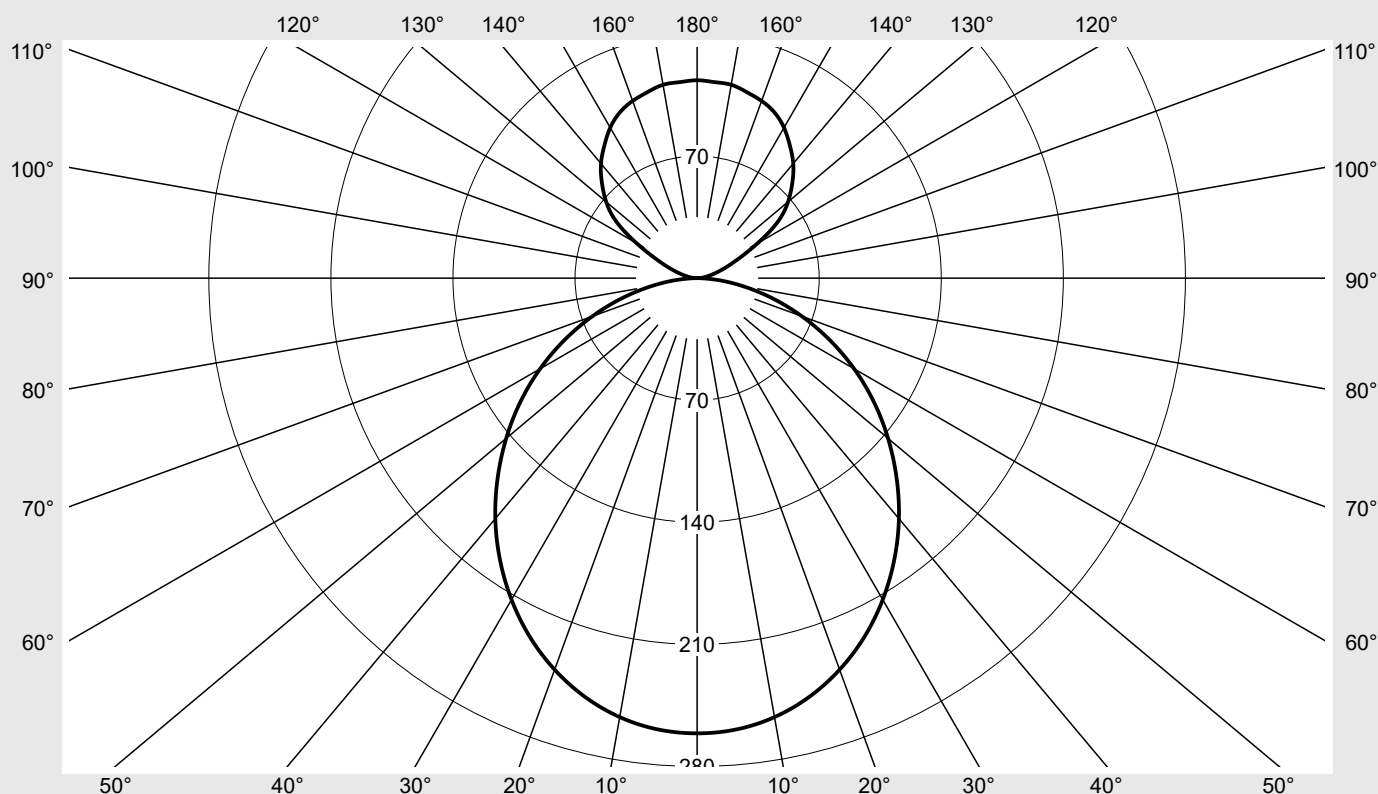
Power consumption = 90.2 W

Luminous efficacy = 164.6 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	18.6	18.3	19.4	20.3	17.6	18.6	18.3	19.4	20.3
	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	19.4	20.4	21.3	18.7	19.6	19.4	20.4	21.3
	8H	18.7	19.6	19.6	20.4	21.4	18.7	19.6	19.6	20.4	21.4
	12H	18.9	19.6	19.7	20.5	21.5	18.9	19.6	19.7	20.5	21.5
4H	2H	16.8	17.7	17.5	18.5	19.5	16.8	17.7	17.5	18.5	19.5
	3H	18.4	19.2	19.2	20.1	21.0	18.4	19.2	19.2	20.1	21.0
	4H	19.1	19.9	20.0	20.7	21.7	19.1	19.9	20.0	20.7	21.7
	6H	19.7	20.4	20.5	21.2	22.2	19.7	20.4	20.5	21.2	22.2
	8H	19.8	20.4	20.7	21.3	22.3	19.8	20.4	20.7	21.3	22.3
	12H	20.0	20.5	20.9	21.4	22.4	20.0	20.5	20.9	21.4	22.4
8H	4H	19.4	19.9	20.2	20.8	21.8	19.4	19.9	20.2	20.8	21.8
	6H	20.0	20.5	20.9	21.4	22.4	20.0	20.5	20.9	21.4	22.4
	8H	20.3	20.7	21.2	21.6	22.7	20.3	20.7	21.2	21.6	22.7
	12H	20.5	20.9	21.4	21.8	22.9	20.5	20.9	21.4	21.8	22.9
12H	4H	19.4	19.9	20.3	20.8	21.8	19.4	19.9	20.3	20.8	21.8
	6H	20.1	20.6	21.0	21.4	22.5	20.1	20.6	21.0	21.4	22.5
	8H	20.4	20.8	21.3	21.7	22.8	20.4	20.8	21.3	21.7	22.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 886
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C-planes	0°
γ	Luminance in cd/m²
45°	5508.8
50°	5355.0
55°	5195.9
60°	5008.9
65°	4781.7
70°	4502.2
75°	4166.6
80°	3739.7
85°	3194.7

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Luminance values in cd/m²

γ 65°

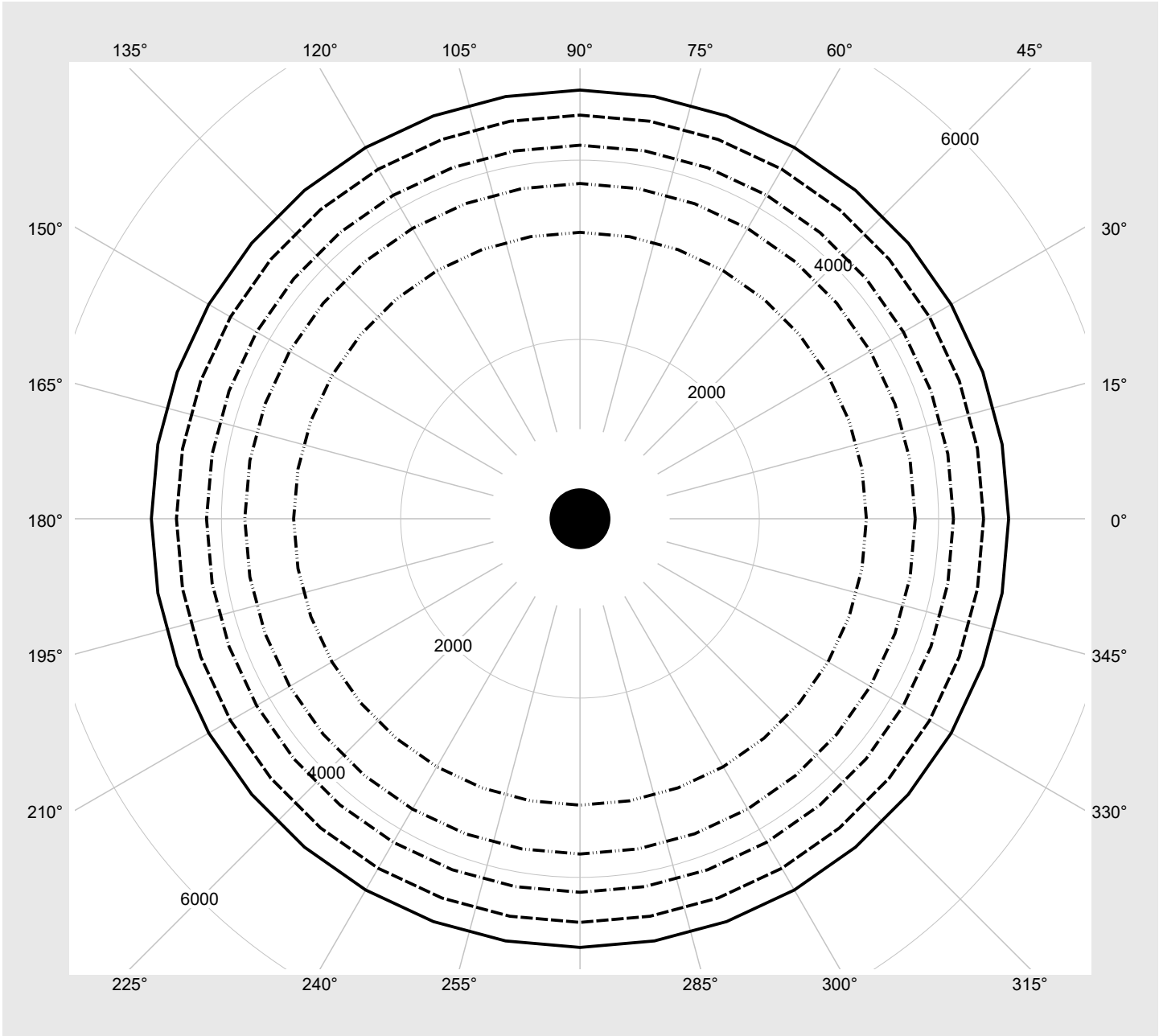
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14850	90.2
95	241	252	14115	85.6
90	228	250	13379	81.0
85	215	248	12639	76.3
80	202	246	11898	71.7
75	189	243	11150	67.0
70	176	241	10401	62.4
65	163	238	9648	57.9
60	150	235	8892	53.4
55	138	232	8194	49.2
50	125	228	7433	44.8
45	112	224	6668	40.4
40	100	220	5959	36.2
35	87	215	5189	31.9
30	75	209	4477	28.0
25	62	202	3702	23.7
20	50	194	2984	19.5
15	37	183	2202	14.8
10	25	169	1479	10.4
5	13	145	754	6.1
3	8	127	451	4.3