

Photometric test report

Family
Silica® 21 round M

Order number: 51MF31DB3NWA
EAN: 4069025807458

LP number
60083_4

serial
documentation
20.05.2026

siteco



Version

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

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 7210 lm

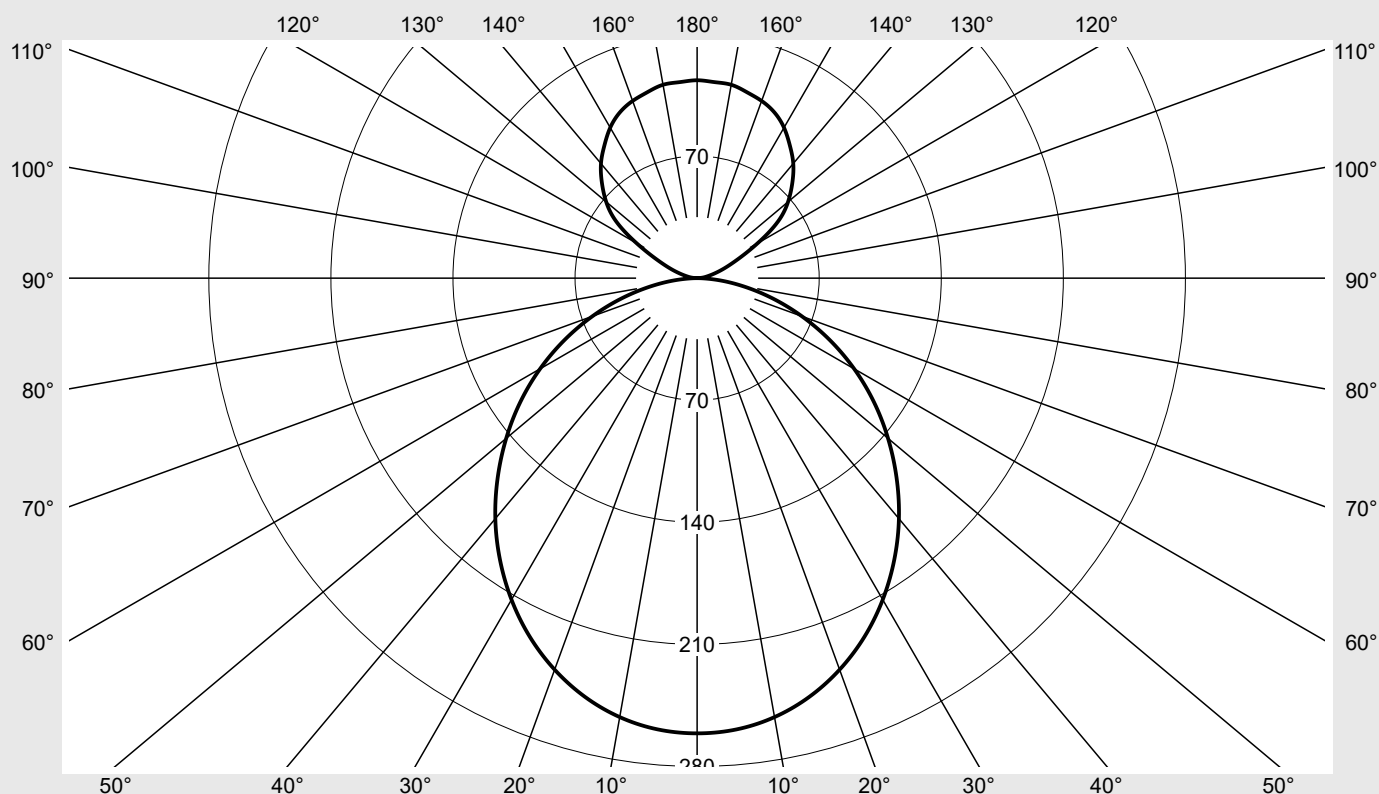
Power consumption = 42.1 W

Luminous efficacy = 171.3 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	16.5	17.7	17.2	18.4	19.3	16.5	17.7	17.2	18.4	19.3
	3H	18.0	19.0	18.7	19.8	20.7	18.0	19.0	18.7	19.8	20.7
	4H	18.6	19.5	19.3	20.3	21.3	18.6	19.5	19.3	20.3	21.3
	6H	19.0	19.9	19.8	20.7	21.7	19.0	19.9	19.8	20.7	21.7
	8H	19.1	19.9	19.9	20.7	21.7	19.1	19.9	19.9	20.7	21.7
	12H	19.2	20.0	20.0	20.8	21.8	19.2	20.0	20.0	20.8	21.8
4H	2H	17.1	18.1	17.9	18.9	19.8	17.1	18.1	17.9	18.9	19.8
	3H	18.8	19.6	19.6	20.4	21.4	18.8	19.6	19.6	20.4	21.4
	4H	19.5	20.2	20.3	21.1	22.1	19.5	20.2	20.3	21.1	22.1
	6H	20.1	20.7	20.9	21.6	22.6	20.1	20.7	20.9	21.6	22.6
	8H	20.2	20.8	21.0	21.6	22.7	20.2	20.8	21.0	21.6	22.7
	12H	20.4	20.9	21.2	21.7	22.8	20.4	20.9	21.2	21.7	22.8
8H	4H	19.7	20.3	20.6	21.2	22.2	19.7	20.3	20.6	21.2	22.2
	6H	20.4	20.9	21.2	21.7	22.8	20.4	20.9	21.2	21.7	22.8
	8H	20.7	21.1	21.5	22.0	23.1	20.7	21.1	21.5	22.0	23.1
	12H	20.9	21.3	21.8	22.2	23.2	20.9	21.3	21.8	22.2	23.2
12H	4H	19.8	20.3	20.6	21.2	22.2	19.8	20.3	20.6	21.2	22.2
	6H	20.5	20.9	21.4	21.8	22.9	20.5	20.9	21.4	21.8	22.9
	8H	20.8	21.2	21.7	22.0	23.1	20.8	21.2	21.7	22.0	23.1

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 586
C-planes	0°		
γ	Luminance in cd/m²		
45°	6114.1		
50°	5943.5		
55°	5766.9		
60°	5559.4		
65°	5307.2		
70°	4996.9		
75°	4624.5		
80°	4150.6		
85°	3545.8		

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Luminance values in cd/m²

γ 65°

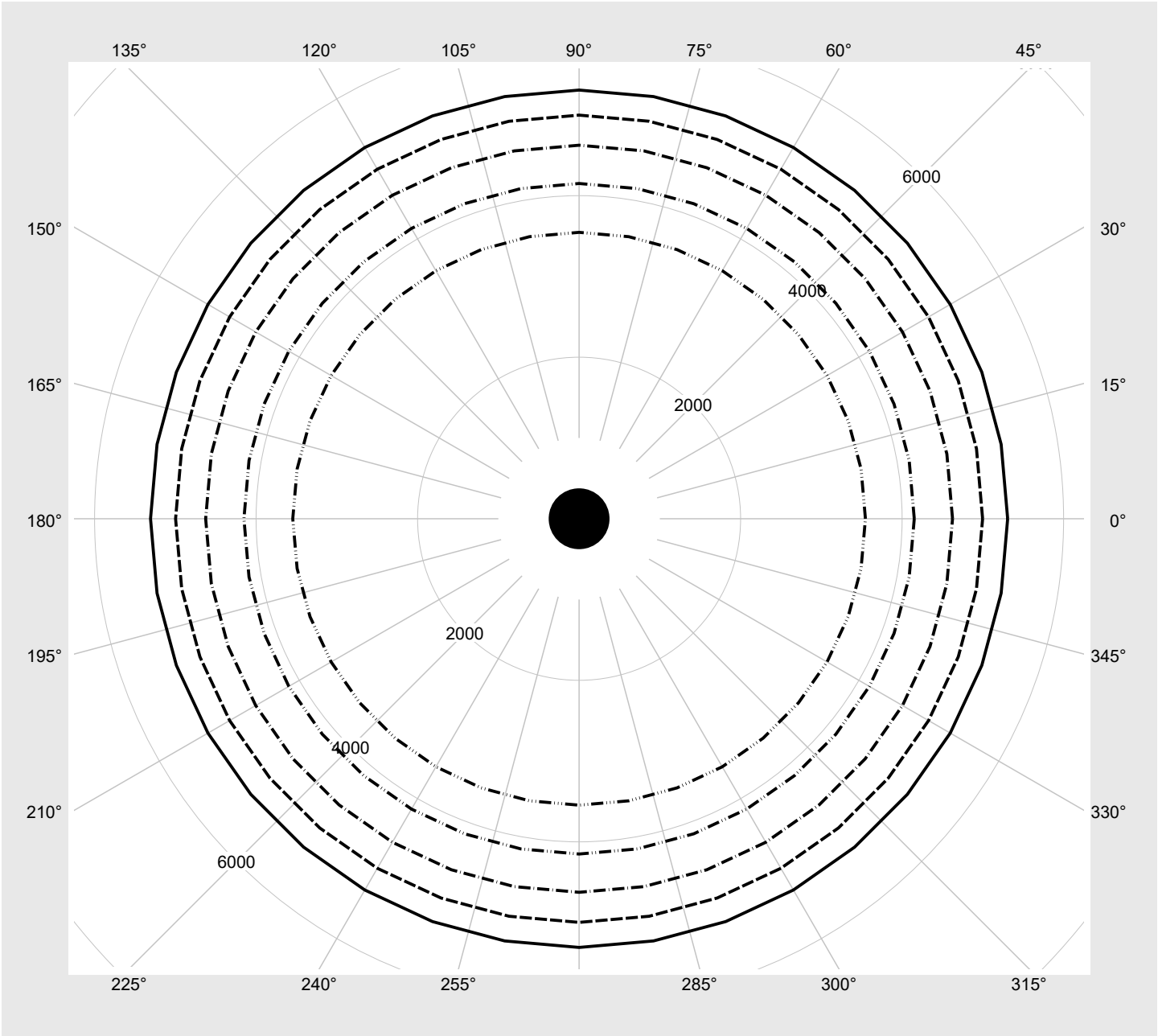
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C
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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	7210	42.1
95	241	252	6846	40.0
90	228	250	6482	38.0
85	215	248	6117	35.9
80	203	246	5780	34.1
75	190	243	5412	32.0
70	177	241	5043	29.9
65	164	238	4673	27.8
60	152	235	4330	25.8
55	139	232	3959	23.7
50	127	229	3615	21.7
45	114	225	3241	19.7
40	102	221	2895	17.6
35	89	216	2520	15.6
30	77	210	2172	13.7
25	64	204	1795	11.6
20	52	196	1445	9.8
15	40	186	1095	7.7
10	27	172	714	5.0
5	15	150	362	2.3
2	8	127	156	1.0