

Photometric test report

Family
Silica® 21 round L

Order number: 51MF31DC3NBA
EAN: 4069025807663

LP number
60084_10

serial
documentation
20.05.2026

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Version

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

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 14880 lm

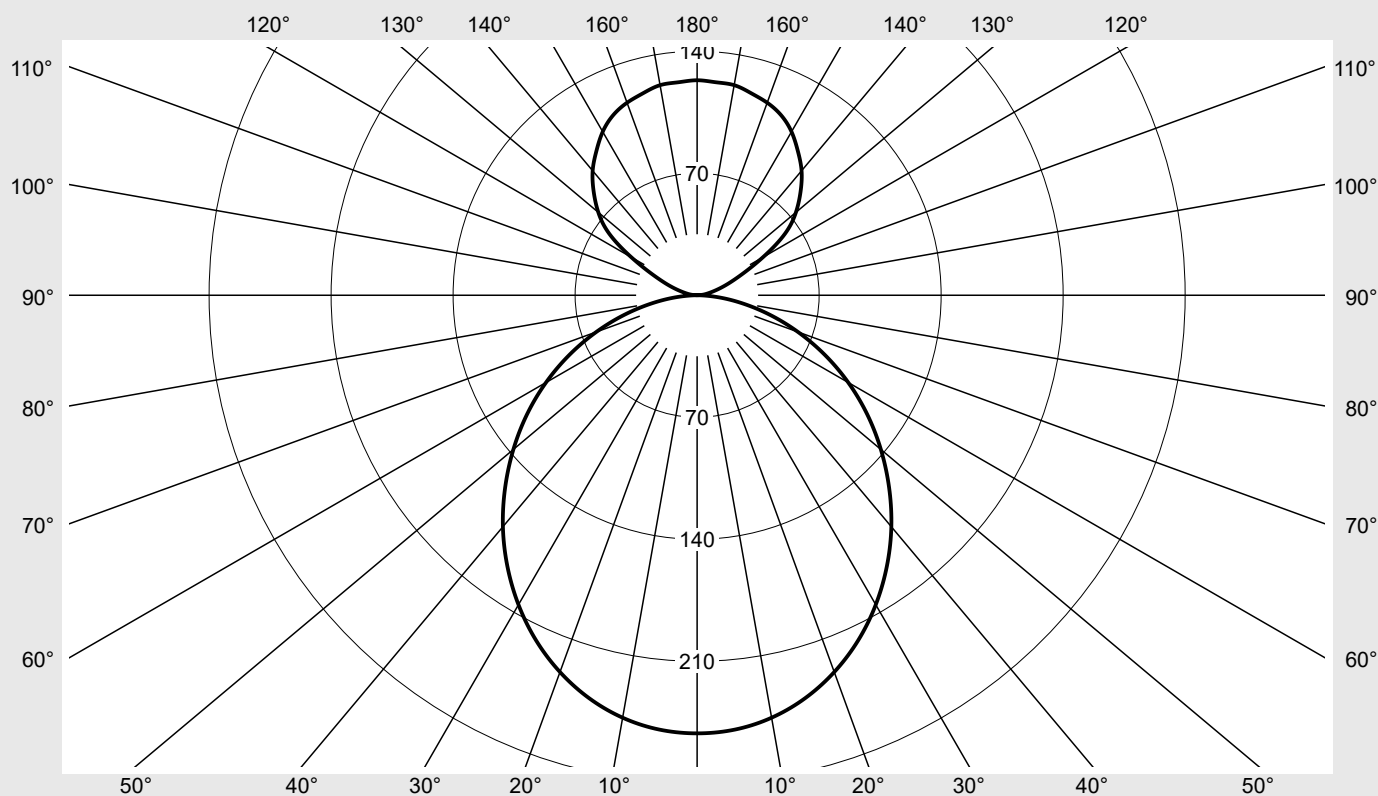
Power consumption = 88.9 W

Luminous efficacy = 167.4 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 251 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 67.6%
 ϕ_o 32.4%

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°	251.4	1.5	1.5
5°	250.1	11.9	13.5
10°	246.1	23.4	36.9
15°	239.3	34.0	70.8
20°	230.0	43.1	114.0
25°	218.5	50.6	164.6
30°	205.0	56.2	220.8
35°	189.8	59.7	280.4
40°	173.4	61.1	341.5
45°	155.7	60.4	401.9
50°	137.6	57.8	459.7
55°	119.2	53.5	513.2
60°	100.1	47.5	560.7
65°	80.8	40.1	600.8
70°	61.6	31.7	632.5
75°	43.1	22.8	655.4
80°	26.0	14.0	669.4
85°	11.1	6.1	675.5
90°	0.7	0.4	675.8
95°	2.8	1.5	677.4
100°	6.3	3.4	680.8
105°	11.1	5.9	686.7
110°	18.3	9.4	696.1
115°	28.2	14.0	710.1
120°	43.6	20.7	730.8
125°	61.5	27.6	758.5
130°	74.0	31.1	789.5
135°	83.9	32.5	822.1
140°	93.2	32.9	854.9
145°	100.8	31.7	886.6
150°	108.3	29.7	916.3
155°	114.0	26.4	942.7
160°	117.6	22.0	964.7
165°	120.0	17.0	981.8
170°	122.4	11.7	993.4
175°	122.7	5.9	999.3
180°	123.4	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	15.8	17.0	16.6	17.7	18.7	15.8	17.0	16.6	17.7	18.7
	3H	17.3	18.3	18.1	19.1	20.1	17.3	18.3	18.1	19.1	20.1
	4H	17.9	18.8	18.7	19.6	20.6	17.9	18.8	18.7	19.6	20.6
	6H	18.4	19.2	19.2	20.0	21.0	18.4	19.2	19.2	20.0	21.0
	8H	18.4	19.2	19.3	20.1	21.1	18.4	19.2	19.3	20.1	21.1
	12H	18.5	19.3	19.4	20.1	21.2	18.5	19.3	19.4	20.1	21.2
4H	2H	16.4	17.4	17.2	18.2	19.2	16.4	17.4	17.2	18.2	19.2
	3H	18.1	18.9	18.9	19.7	20.8	18.1	18.9	18.9	19.7	20.8
	4H	18.8	19.5	19.7	20.4	21.4	18.8	19.5	19.7	20.4	21.4
	6H	19.4	20.0	20.2	20.9	21.9	19.4	20.0	20.2	20.9	21.9
	8H	19.5	20.1	20.4	20.9	22.0	19.5	20.1	20.4	20.9	22.0
	12H	19.7	20.2	20.5	21.1	22.2	19.7	20.2	20.5	21.1	22.2
8H	4H	19.0	19.6	19.9	20.5	21.6	19.0	19.6	19.9	20.5	21.6
	6H	19.7	20.2	20.6	21.0	22.2	19.7	20.2	20.6	21.0	22.2
	8H	20.0	20.4	20.9	21.3	22.4	20.0	20.4	20.9	21.3	22.4
	12H	20.2	20.6	21.1	21.5	22.6	20.2	20.6	21.1	21.5	22.6
12H	4H	19.1	19.6	20.0	20.5	21.6	19.1	19.6	20.0	20.5	21.6
	6H	19.8	20.2	20.7	21.1	22.2	19.8	20.2	20.7	21.1	22.2
	8H	20.1	20.5	21.0	21.4	22.5	20.1	20.5	21.0	21.4	22.5

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 886
C-planes	0°			
γ	Luminance in cd/m²			
45°	5315.4			
50°	5167.1			
55°	5013.6			
60°	4833.2			
65°	4613.9			
70°	4344.2			
75°	4020.4			
80°	3608.5			
85°	3082.4			

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Luminance values in cd/m²

γ 65°

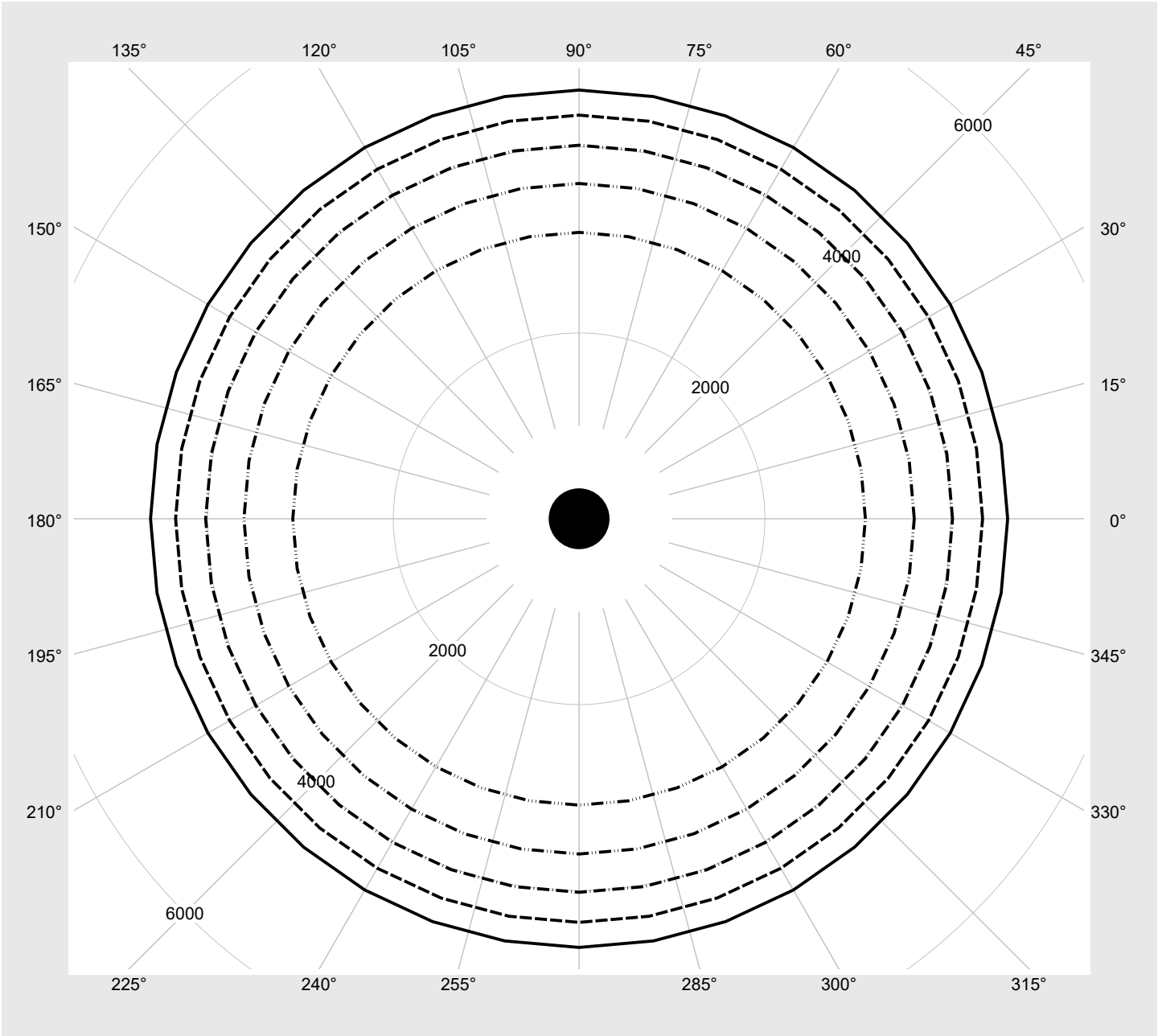
γ 70°

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	14880	88.9
95	241	252	14131	84.4
90	228	250	13381	79.9
85	215	248	12628	75.3
80	203	246	11933	71.2
75	190	243	11174	66.6
70	177	241	10415	62.1
65	164	238	9652	57.7
60	152	235	8945	53.6
55	139	232	8179	49.1
50	126	228	7411	44.8
45	114	225	6697	40.7
40	101	220	5924	36.3
35	89	216	5208	32.3
30	77	210	4491	28.5
25	64	204	3710	24.3
20	52	196	2989	20.1
15	39	185	2204	15.5
10	27	172	1478	11.2
5	15	150	751	6.8
2	8	127	325	4.3