

Photometric test report

Family
Silica® 21 round S

Order number: 51MF23DADMBA
EAN: 4069025806581

LP number
60072_24

serial
documentation
20.05.2026



Version surface-mounted luminaire, housing, black, microprismatic optics, direct wide distribution with ceiling illumination, UGR≤19

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 2480 lm
Power consumption = 18.6 W
Luminous efficacy = 133.3 lm/W

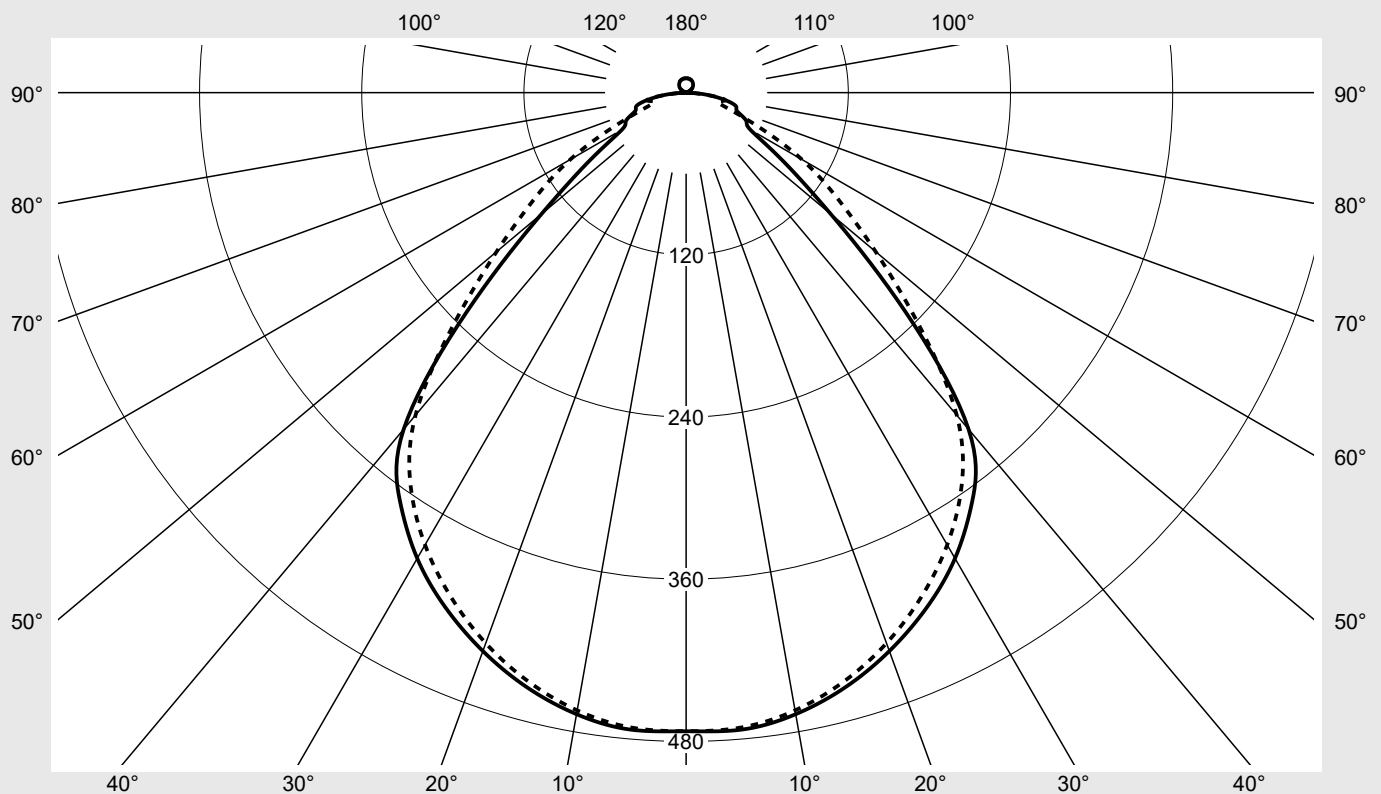
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 473 cd/klm



Classifications

DIN 5040 A 5 3
CIE N1=64 N2=89 N3=97
N4=97 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 97.2%
 ϕ_o 2.8%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21 round S	Order number: 51MF23DADMBA EAN: 4069025806581	LP number 60072_24
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	2.8	2.8
5°	473.1	470.6	467.9	469.6	471.8	471.5	471.4	22.5	25.3
10°	467.0	464.4	461.3	462.6	464.5	464.1	464.1	44.1	69.4
15°	455.4	452.9	449.6	450.4	451.7	451.2	451.0	64.1	133.5
20°	439.7	437.1	433.3	433.5	434.4	433.7	433.5	81.5	215.0
25°	420.7	417.7	413.1	412.9	413.8	412.5	411.7	96.0	311.0
30°	397.9	394.4	388.9	388.6	389.9	387.9	386.4	107.0	418.0
35°	369.1	365.7	359.1	359.5	360.4	358.3	355.3	113.4	531.4
40°	325.1	325.2	319.3	318.9	313.7	315.1	311.5	112.2	643.6
45°	229.9	244.7	248.2	243.4	222.2	243.0	244.1	92.9	736.5
50°	139.7	160.3	187.1	160.2	138.8	157.7	183.1	67.6	804.1
55°	86.1	98.4	139.4	97.9	85.3	95.8	137.1	47.0	851.1
60°	54.9	66.5	97.8	67.2	54.7	65.6	99.0	33.9	885.0
65°	49.0	56.8	60.6	58.2	50.2	58.3	57.3	27.9	913.0
70°	40.2	49.0	31.0	49.9	40.4	50.0	30.7	22.0	934.9
75°	38.0	34.2	27.1	34.9	38.5	34.7	24.9	17.7	952.6
80°	27.3	20.6	26.9	20.0	27.6	21.0	28.7	13.0	965.6
85°	12.7	11.9	10.0	11.9	12.7	12.2	10.1	6.4	972.0
90°	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	972.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	972.2
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	972.5
105°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	973.0
110°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	973.8
115°	2.4	2.4	2.5	2.5	2.5	2.5	2.5	1.2	975.0
120°	3.8	3.7	3.7	3.7	3.7	3.7	3.7	1.8	976.8
125°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	2.4	979.2
130°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	2.7	981.9
135°	7.2	7.2	7.3	7.3	7.3	7.3	7.3	2.8	984.7
140°	8.0	8.0	8.0	8.1	8.1	8.0	8.0	2.8	987.5
145°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	2.7	990.2
150°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	2.6	992.8
155°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	2.3	995.1
160°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	1.9	997.0
165°	10.4	10.4	10.3	10.4	10.4	10.3	10.4	1.5	998.4
170°	10.6	10.6	10.6	10.5	10.5	10.5	10.5	1.0	999.4
175°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	0.5	999.9
180°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	0.1	1000.0

Photometric test report

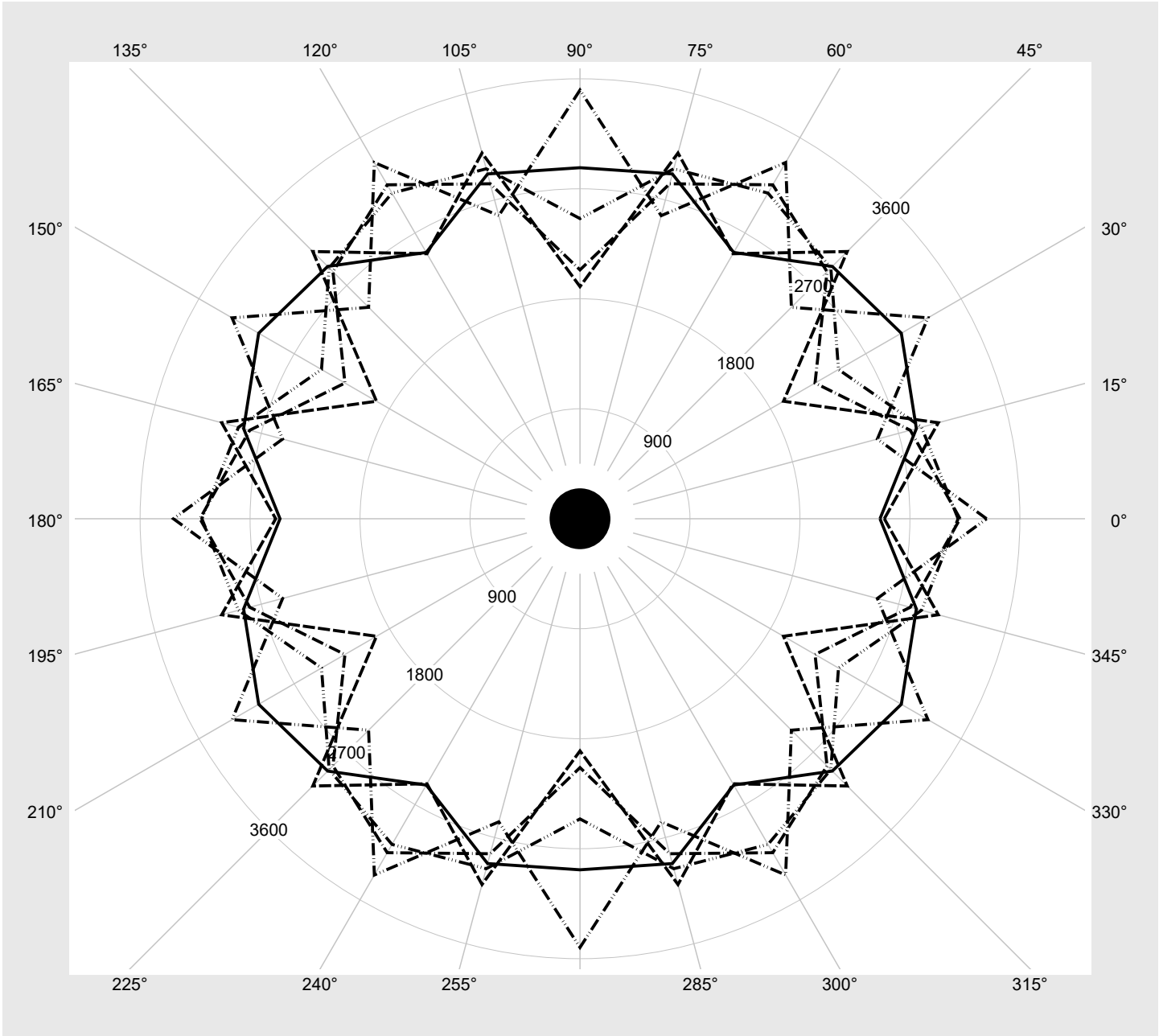
Family Silica® 21 round S	Order number: 51MF23DADMBA EAN: 4069025806581	LP number 60072_24
------------------------------	--	-----------------------

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	16.9	18.4	17.3	18.7	19.1	16.7	18.2	17.1	18.5	18.9
	3H	17.6	19.0	18.0	19.3	19.7	17.5	18.8	17.9	19.2	19.5
	4H	18.1	19.4	18.5	19.7	20.1	17.8	19.1	18.2	19.4	19.8
	6H	18.6	19.7	19.0	20.1	20.5	18.3	19.4	18.7	19.8	20.2
	8H	18.8	19.9	19.2	20.3	20.7	18.6	19.6	19.0	20.0	20.4
	12H	19.0	20.0	19.4	20.4	20.8	18.7	19.7	19.1	20.1	20.5
4H	2H	17.2	18.4	17.6	18.8	19.2	17.0	18.3	17.4	18.6	19.0
	3H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5	19.9
	4H	18.6	19.5	19.0	19.9	20.4	18.5	19.5	19.0	19.9	20.3
	6H	19.2	20.0	19.6	20.4	20.9	19.1	19.9	19.6	20.4	20.8
	8H	19.4	20.2	19.9	20.6	21.1	19.4	20.2	19.9	20.6	21.1
	12H	19.7	20.3	20.2	20.8	21.3	19.6	20.3	20.1	20.7	21.2
8H	4H	18.8	19.6	19.3	20.0	20.5	18.8	19.6	19.3	20.0	20.5
	6H	19.6	20.2	20.1	20.7	21.2	19.6	20.2	20.1	20.7	21.2
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	12H	20.3	20.7	20.8	21.2	21.8	20.3	20.7	20.8	21.2	21.8
12H	4H	18.9	19.5	19.4	20.0	20.5	18.9	19.5	19.4	20.0	20.5
	6H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
	8H	20.1	20.5	20.6	21.0	21.6	20.1	20.6	20.6	21.1	21.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 386	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
		Luminance in cd/m²					
γ							
45°	6890.4	7333.6	7439.4	7296.4	6658.9	7282.2	7316.4
50°	4605.8	5283.9	6169.3	5280.8	4575.3	5200.1	6035.7
55°	3181.4	3634.5	5150.5	3618.7	3152.1	3540.1	5065.0
60°	2325.0	2816.8	4147.3	2847.8	2317.9	2779.9	4196.2
65°	2455.0	2849.9	3036.5	2920.0	2516.3	2921.2	2872.6
70°	2490.3	3035.9	1923.2	3092.7	2504.3	3098.6	1899.8
75°	3110.5	2798.3	2221.1	2859.3	3155.3	2837.9	2036.4
80°	3327.4	2519.5	3288.0	2446.7	3365.9	2567.8	3507.9
85°	3094.4	2893.6	2442.8	2903.1	3077.2	2964.6	2456.4

Photometric test report

Family Silica® 21 round S	Order number: 51MF23DADMBA EAN: 4069025806581	LP number 60072_24	
Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°			



Photometric test report

Family Silica® 21 round S	Order number: 51MF23DADMBA EAN: 4069025806581	LP number 60072_24
Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2480	18.6
95	241	252	2358	17.6
90	228	250	2235	16.7
85	215	248	2112	15.8
80	202	246	1988	14.8
75	189	243	1863	13.9
70	176	241	1739	13.0
65	163	238	1613	12.2
60	150	235	1487	11.3
55	137	231	1361	10.4
50	125	228	1243	9.6
45	112	224	1116	8.7
40	99	219	988	7.8
35	87	215	869	6.9
30	74	209	741	6.0
25	62	202	621	5.2
20	50	194	501	4.2
15	37	183	370	3.3
10	25	169	249	2.4
5	13	145	128	1.4
4	11	139	107	1.2