

Photometric test report

Family
Silica® 21 round S

Order number: 51ME23DA4MWA
EAN: 4069025800350

LP number
60072_3

serial
documentation
20.05.2026

siteco

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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

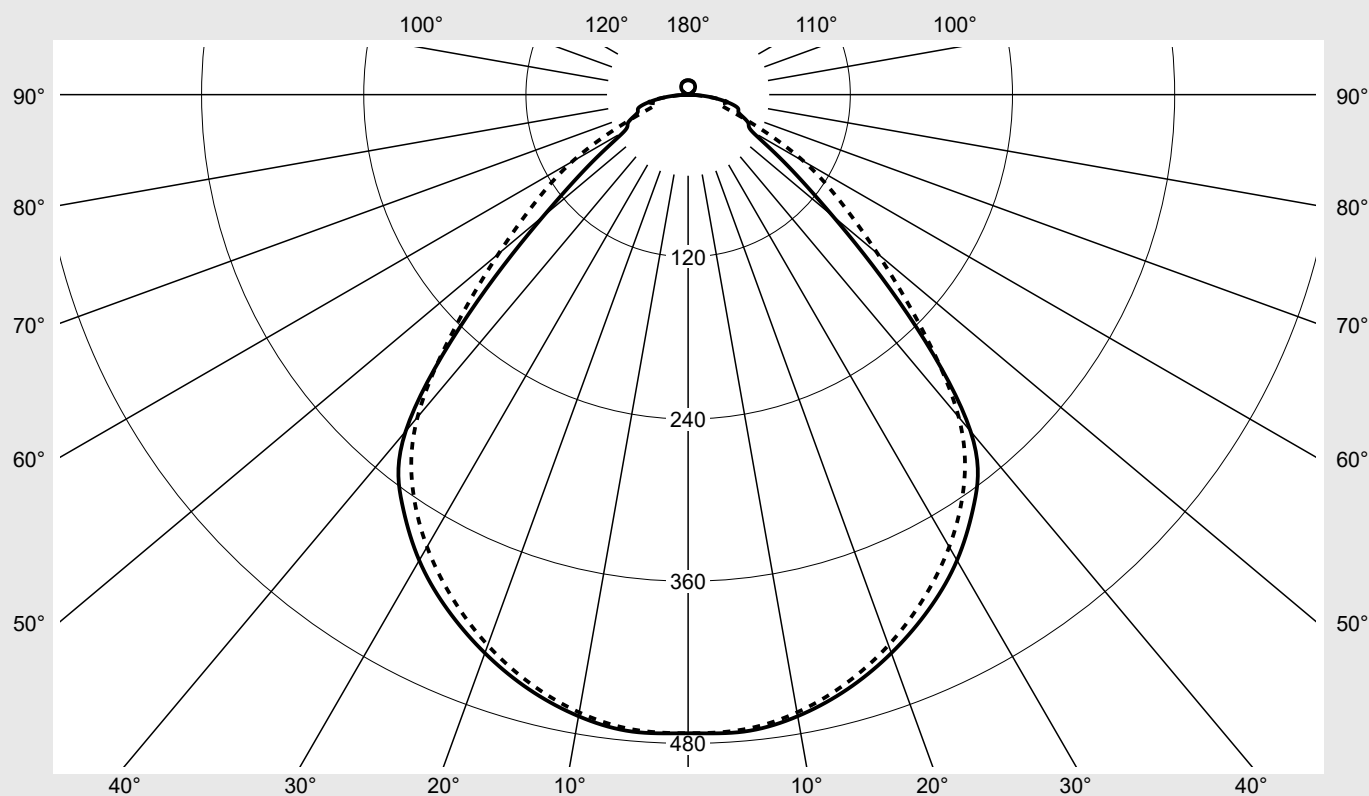
Rated values Net luminous flux = 2480 lm
Power consumption = 16.7 W
Luminous efficacy = 148.5 lm/W

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: 51ME23DA4MWA EAN: 4069025800350	LP number 60072_3
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: 51ME23DA4MWA EAN: 4069025800350	LP number 60072_3
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°
γ	Luminance in cd/m²						
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: 51ME23DA4MWA EAN: 4069025800350	LP number 60072_3
--	--	------------------------------------

Luminance values in cd/m²

γ 65°

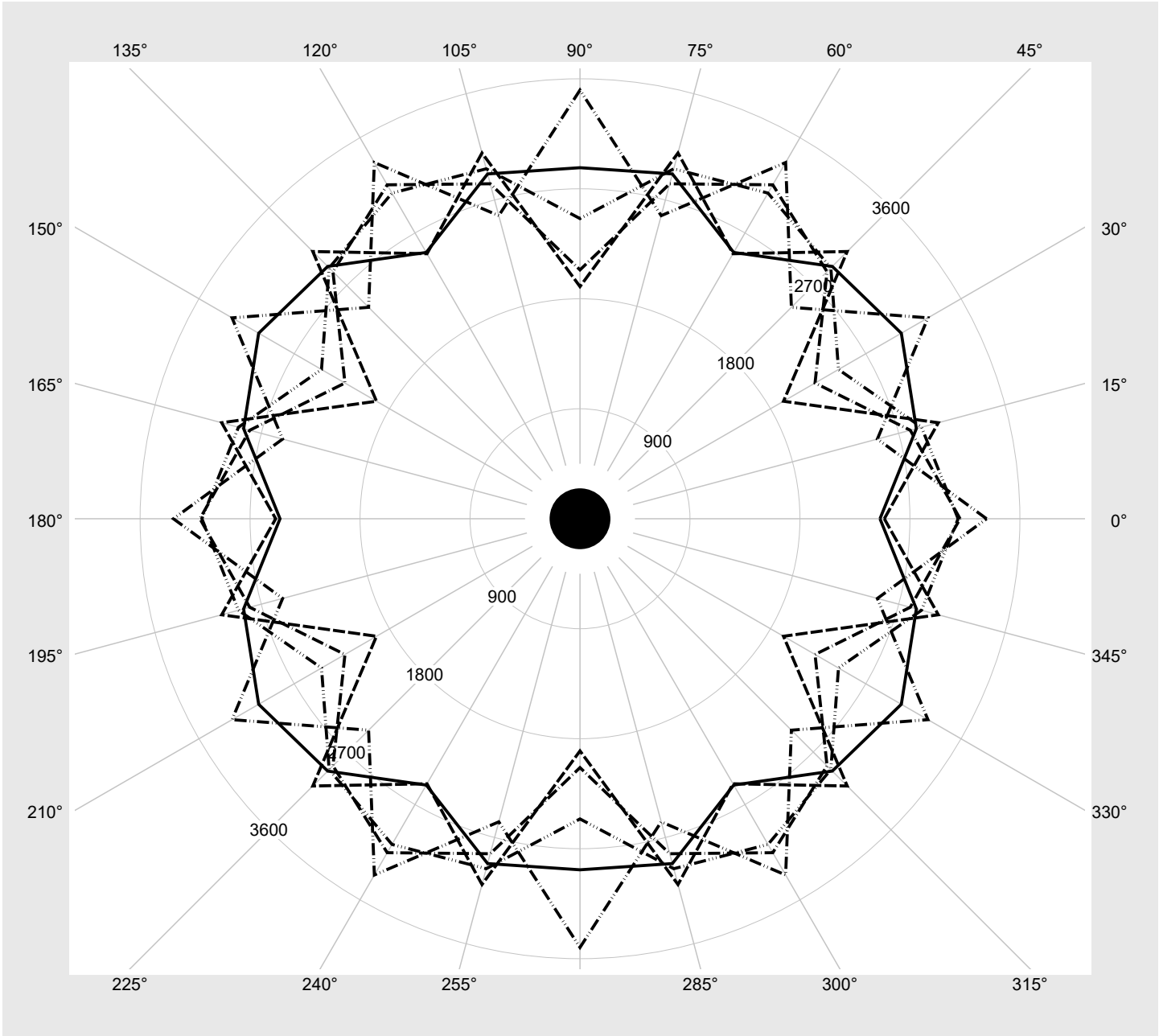
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Silica® 21 round S	Order number: 51ME23DA4MWA EAN: 4069025800350	LP number 60072_3
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	16.7
95	241	252	2354	15.9
90	228	250	2227	15.0
85	216	248	2110	14.2
80	203	246	1983	13.4
75	190	243	1856	12.7
70	178	241	1738	12.0
65	165	238	1611	11.2
60	152	235	1484	10.4
55	140	232	1366	9.7
50	127	229	1238	8.9
45	115	225	1119	8.1
40	102	221	991	7.3
35	90	216	873	6.6
30	77	210	744	5.8
25	64	204	615	4.9
20	52	196	496	4.1
15	40	186	377	3.3
10	27	172	247	2.4
5	15	150	127	1.5
4	13	145	108	1.3