

Photometric test report

Family
Silica® 21 round S

Order number: 51MF33DA4MWA
EAN: 4069025807991

LP number
60074_5

serial
documentation
20.05.2026

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Version Suspended luminaire, housing, white,
microprismatic optics, direct-/ indirect
distribution, wide distribution, UGR≤19

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

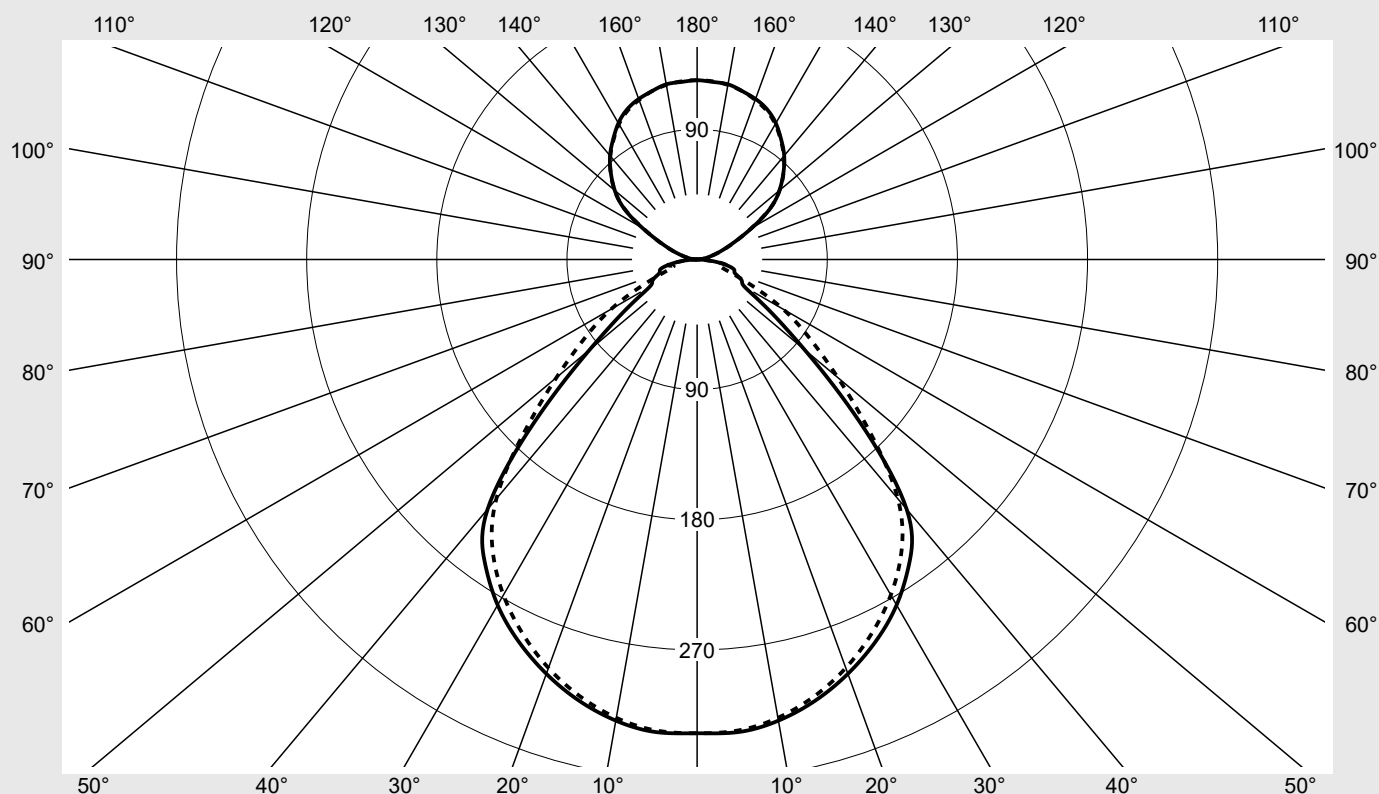
Rated values Net luminous flux = 3580 lm
Power consumption = 21.4 W
Luminous efficacy = 167.3 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 328 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=67 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 67.4%
 ϕ_o 32.6%

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° 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°	327.6	327.6	327.6	327.6	327.6	327.6	327.6	2.0	2.0
5°	328.0	326.3	324.5	325.6	327.1	326.9	326.9	15.6	17.5
10°	323.8	322.0	319.9	320.8	322.1	321.9	321.8	30.6	48.2
15°	315.8	314.1	311.7	312.3	313.3	312.9	312.8	44.4	92.6
20°	304.9	303.1	300.5	300.6	301.2	300.7	300.6	56.5	149.1
25°	291.7	289.7	286.4	286.3	286.9	286.1	285.5	66.6	215.7
30°	275.9	273.5	269.7	269.5	270.4	269.0	267.9	74.2	289.8
35°	255.9	253.6	249.0	249.3	249.9	248.4	246.4	78.7	368.5
40°	225.4	225.5	221.4	221.1	217.5	218.5	216.0	77.8	446.3
45°	159.4	169.7	172.1	168.8	154.1	168.5	169.3	64.4	510.7
50°	96.9	111.1	129.8	111.1	96.2	109.4	126.9	46.9	557.6
55°	59.7	68.2	96.7	67.9	59.2	66.4	95.1	32.6	590.2
60°	38.0	46.1	67.9	46.6	37.9	45.5	68.7	23.5	613.7
65°	33.9	39.4	42.0	40.4	34.8	40.4	39.7	19.4	633.1
70°	27.9	34.0	21.5	34.6	28.0	34.7	21.3	15.2	648.3
75°	26.3	23.7	18.8	24.2	26.7	24.0	17.2	12.3	660.6
80°	18.9	14.3	18.7	13.9	19.1	14.6	19.9	9.0	669.6
85°	8.8	8.3	7.0	8.3	8.8	8.5	7.0	4.4	674.0
90°	0.7	0.9	0.5	0.8	0.6	0.6	0.4	0.4	674.4
95°	2.8	2.7	2.7	2.7	2.8	2.7	2.7	1.5	675.9
100°	6.4	6.2	6.2	6.3	6.4	6.3	6.4	3.4	679.3
105°	11.2	11.1	11.2	11.3	11.4	11.3	11.4	6.0	685.2
110°	18.4	18.3	18.5	18.7	18.8	18.7	18.7	9.6	694.8
115°	28.4	28.3	28.6	28.7	28.9	29.0	28.9	14.2	709.1
120°	43.8	43.6	43.4	43.5	43.4	43.4	43.3	20.6	729.7
125°	61.8	61.7	61.7	61.6	62.0	61.9	61.6	27.7	757.4
130°	74.4	74.2	74.4	74.7	75.1	74.7	74.4	31.3	788.7
135°	84.3	84.3	84.7	85.2	85.1	84.8	84.6	32.9	821.6
140°	93.7	93.5	93.6	93.8	93.7	93.5	93.3	33.0	854.6
145°	101.3	101.4	101.6	101.5	101.2	101.1	100.9	31.9	886.4
150°	108.8	108.8	108.8	108.6	108.3	108.3	108.1	29.8	916.2
155°	114.5	114.2	114.0	113.7	113.6	113.6	113.6	26.4	942.5
160°	118.1	117.9	117.6	117.3	117.6	117.2	117.4	22.0	964.6
165°	120.6	120.6	120.5	120.6	120.5	120.2	120.5	17.1	981.7
170°	123.0	123.0	122.9	122.6	122.2	122.4	122.6	11.7	993.4
175°	123.3	123.3	123.4	123.5	123.5	123.6	123.7	5.9	999.3
180°	124.0	124.0	124.0	124.0	124.0	124.0	124.0	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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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)			
2H	x									
	y									
	2H	14.7	15.8	15.5	16.6	17.5	14.6	15.6	15.3	16.4
	3H	15.3	16.2	16.1	17.1	18.0	15.2	16.1	16.0	16.9
	4H	15.8	16.6	16.6	17.4	18.5	15.5	16.3	16.3	17.2
	6H	16.2	17.0	17.1	17.8	18.9	15.9	16.7	16.7	17.5
4H	8H	16.4	17.1	17.2	17.9	19.0	16.1	16.8	16.9	17.6
	12H	16.5	17.2	17.4	18.0	19.1	16.2	16.9	17.1	17.7
	2H	14.9	15.7	15.7	16.5	17.5	14.7	15.6	15.5	16.4
	3H	15.6	16.3	16.5	17.2	18.2	15.6	16.3	16.5	17.2
	4H	16.2	16.8	17.0	17.6	18.7	16.1	16.8	17.0	17.6
	6H	16.7	17.3	17.6	18.2	19.2	16.7	17.2	17.6	18.1
8H	8H	16.9	17.4	17.8	18.3	19.4	16.9	17.4	17.8	18.3
	12H	17.2	17.6	18.0	18.5	19.6	17.1	17.5	18.0	18.4
	4H	16.3	16.8	17.2	17.7	18.8	16.3	16.8	17.2	17.7
	6H	17.0	17.4	17.9	18.3	19.5	17.0	17.4	17.9	18.3
	8H	17.4	17.7	18.3	18.6	19.8	17.4	17.8	18.3	18.7
	12H	17.7	18.0	18.6	18.9	20.1	17.7	18.0	18.6	18.9
12H	4H	16.4	16.8	17.2	17.7	18.8	16.3	16.8	17.2	17.7
	6H	17.1	17.5	18.1	18.4	19.5	17.1	17.5	18.0	18.4
	8H	17.5	17.8	18.4	18.7	19.9	17.5	17.9	18.5	18.8
	2H	14.7	15.8	15.5	16.6	17.5	14.6	15.6	15.3	16.4
	3H	15.3	16.2	16.1	17.1	18.0	15.2	16.1	16.0	16.9
	4H	15.8	16.6	16.6	17.4	18.5	15.5	16.3	16.3	17.2

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°	6897.3	7340.8	7446.8	7303.6	6665.4	7289.4	7323.7
50°	4610.4	5289.2	6175.4	5286.1	4579.8	5205.3	6041.7
55°	3184.5	3638.2	5155.6	3622.2	3155.3	3543.5	5070.0
60°	2327.3	2819.7	4151.4	2850.6	2320.2	2782.7	4200.4
65°	2457.4	2852.8	3039.5	2923.0	2518.7	2924.1	2875.5
70°	2492.7	3038.9	1925.1	3095.7	2506.7	3101.6	1901.6
75°	3113.5	2801.0	2223.4	2862.1	3158.5	2840.7	2038.4
80°	3330.6	2522.0	3291.2	2449.0	3369.2	2570.4	3511.2
85°	3097.3	2896.6	2445.2	2906.0	3080.5	2967.5	2458.5

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Luminance values in cd/m²

γ 65°

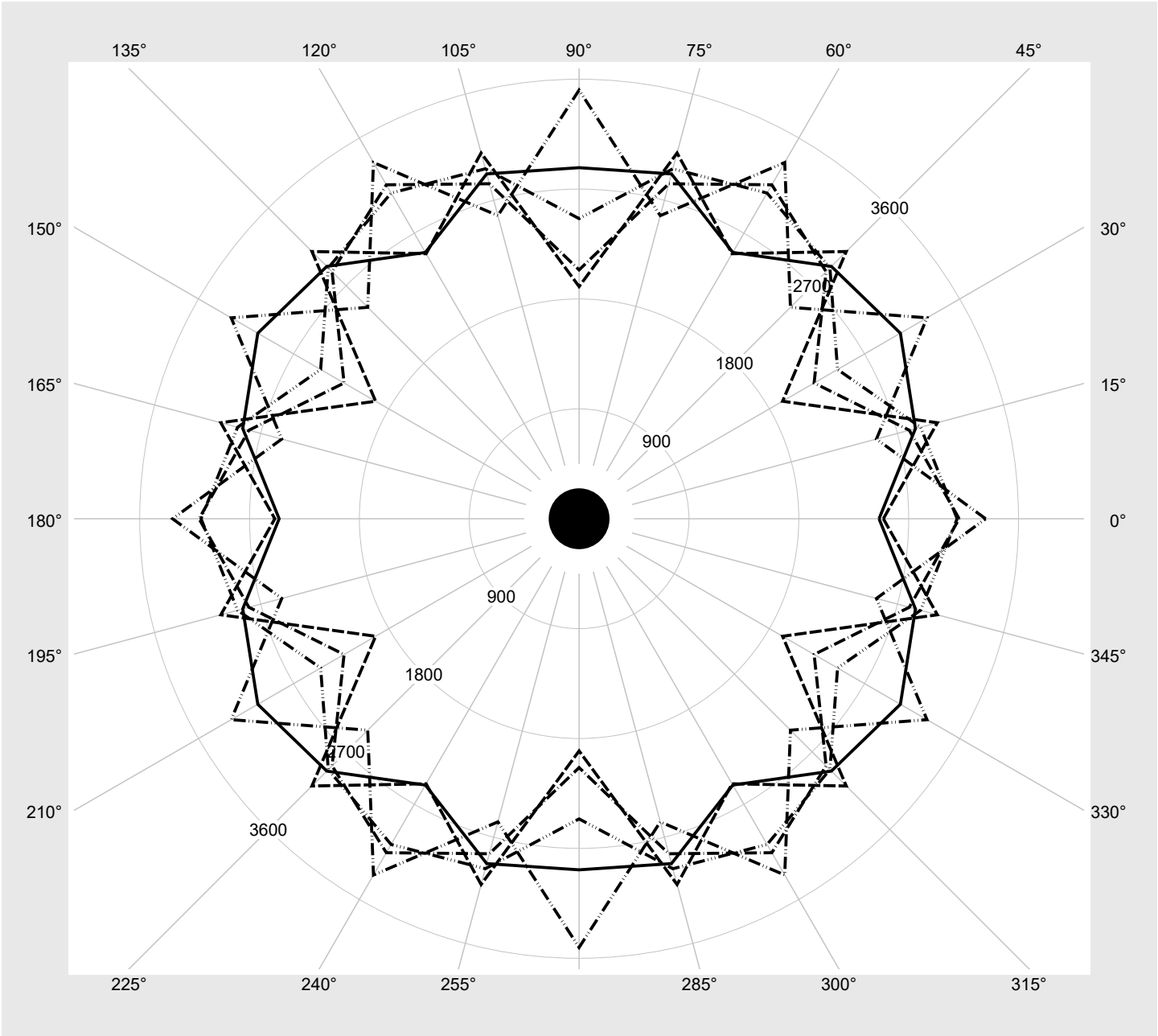
γ 70°

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	3580	21.4
95	241	252	3400	20.3
90	228	250	3219	19.3
85	215	248	3037	18.2
80	203	246	2869	17.3
75	190	243	2686	16.3
70	177	241	2503	15.2
65	165	238	2333	14.3
60	152	235	2149	13.2
55	139	232	1964	12.2
50	127	229	1792	11.2
45	114	225	1607	10.1
40	102	221	1434	9.1
35	89	216	1247	8.1
30	77	210	1073	7.1
25	65	204	900	6.1
20	52	196	711	5.1
15	40	186	536	4.1
10	28	173	360	3.0
5	16	153	184	1.9
3	10	136	96	1.3