

Photometric test report

Family
Silica® 21 round M

Order number: 51MF33DBDMSA
EAN: 4069025808271

LP number
60082_6

serial
documentation
20.05.2026



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

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 8110 lm
Power consumption = 51.0 W
Luminous efficacy = 159 lm/W

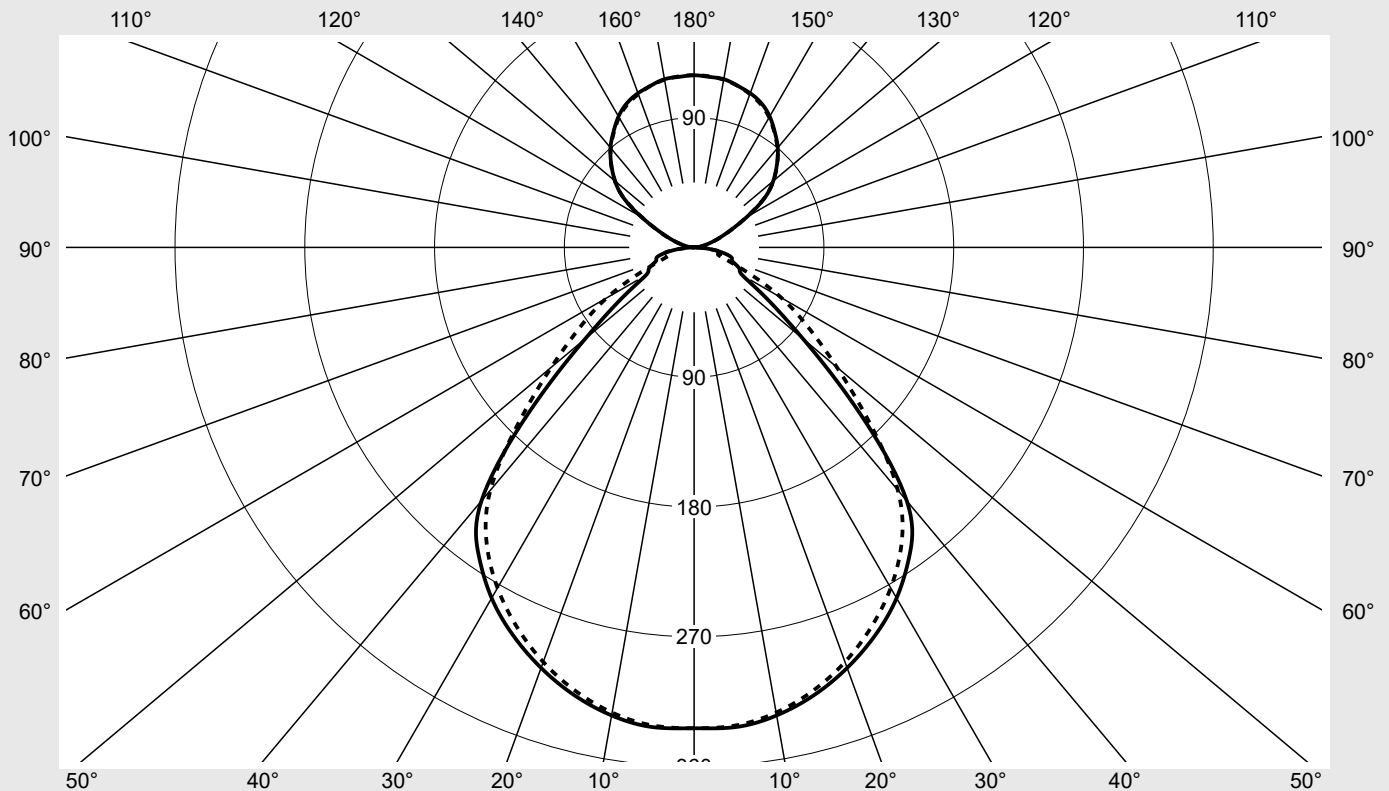
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 334 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=69 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 68.6%
 ϕ_o 31.4%

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° 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°	333.5	333.5	333.5	333.5	333.5	333.5	333.5	2.0	2.0
5°	333.9	332.1	330.2	331.4	333.0	332.8	332.7	15.9	17.9
10°	329.6	327.7	325.6	326.5	327.9	327.6	327.5	31.2	49.0
15°	321.4	319.7	317.3	317.9	318.8	318.5	318.3	45.2	94.2
20°	310.3	308.5	305.8	306.0	306.6	306.1	305.9	57.5	151.7
25°	296.9	294.8	291.5	291.4	292.0	291.2	290.6	67.7	219.5
30°	280.8	278.3	274.5	274.3	275.2	273.8	272.7	75.5	295.0
35°	260.5	258.1	253.4	253.7	254.3	252.8	250.8	80.1	375.1
40°	229.5	229.5	225.3	225.1	221.4	222.4	219.8	79.2	454.2
45°	162.3	172.7	175.2	171.8	156.8	171.5	172.3	65.6	519.8
50°	98.6	113.1	132.1	113.0	97.9	111.3	129.2	47.7	567.5
55°	60.8	69.4	98.4	69.1	60.2	67.6	96.7	33.2	600.7
60°	38.7	46.9	69.1	47.4	38.6	46.3	69.9	23.9	624.6
65°	34.6	40.1	42.7	41.1	35.4	41.1	40.4	19.7	644.3
70°	28.4	34.6	21.9	35.2	28.5	35.3	21.6	15.5	659.8
75°	26.8	24.1	19.1	24.6	27.2	24.5	17.6	12.5	672.3
80°	19.2	14.6	19.0	14.1	19.5	14.9	20.3	9.2	681.5
85°	9.0	8.4	7.1	8.4	8.9	8.6	7.1	4.5	686.0
90°	0.7	0.8	0.5	0.7	0.5	0.6	0.3	0.3	686.3
95°	2.7	2.6	2.6	2.6	2.7	2.6	2.6	1.4	687.8
100°	6.1	6.0	6.0	6.1	6.1	6.1	6.1	3.3	691.1
105°	10.8	10.7	10.8	10.9	11.0	10.9	11.0	5.8	696.8
110°	17.7	17.6	17.9	18.0	18.1	18.0	18.1	9.2	706.0
115°	27.3	27.3	27.5	27.6	27.8	27.9	27.8	13.7	719.8
120°	42.2	42.0	41.8	41.9	41.8	41.8	41.7	19.9	739.6
125°	59.6	59.4	59.4	59.3	59.7	59.7	59.3	26.7	766.3
130°	71.6	71.5	71.6	71.9	72.3	72.0	71.7	30.2	796.5
135°	81.2	81.2	81.6	82.0	82.0	81.6	81.4	31.6	828.1
140°	90.2	90.0	90.1	90.4	90.3	90.0	89.9	31.8	859.9
145°	97.6	97.7	97.9	97.8	97.5	97.4	97.1	30.7	890.6
150°	104.8	104.8	104.8	104.6	104.3	104.3	104.1	28.7	919.3
155°	110.3	110.0	109.8	109.5	109.4	109.4	109.4	25.4	944.7
160°	113.8	113.5	113.3	113.0	113.3	112.9	113.1	21.2	965.9
165°	116.1	116.1	116.1	116.2	116.1	115.8	116.1	16.5	982.4
170°	118.5	118.5	118.4	118.1	117.7	117.9	118.1	11.2	993.6
175°	118.7	118.8	118.8	119.0	119.0	119.1	119.1	5.7	999.3
180°	119.4	119.4	119.4	119.4	119.4	119.4	119.4	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	14.8	15.9	15.6	16.6	17.6	14.6	15.7	15.4	16.5	17.4
	3H	15.4	16.4	16.2	17.1	18.1	15.3	16.2	16.1	17.0	18.0
	4H	15.9	16.7	16.7	17.5	18.5	15.6	16.4	16.4	17.2	18.2
	6H	16.3	17.1	17.1	17.9	18.9	16.0	16.8	16.8	17.6	18.6
	8H	16.5	17.2	17.3	18.0	19.0	16.2	16.9	17.0	17.7	18.8
	12H	16.6	17.3	17.4	18.1	19.2	16.3	17.0	17.1	17.8	18.9
4H	2H	15.0	15.8	15.7	16.6	17.6	14.8	15.7	15.6	16.5	17.5
	3H	15.7	16.4	16.5	17.3	18.3	15.7	16.4	16.5	17.3	18.3
	4H	16.3	16.9	17.1	17.7	18.8	16.2	16.9	17.1	17.7	18.7
	6H	16.8	17.4	17.7	18.3	19.3	16.8	17.4	17.6	18.2	19.3
	8H	17.0	17.5	17.9	18.4	19.5	17.0	17.5	17.9	18.4	19.4
	12H	17.3	17.7	18.1	18.6	19.7	17.2	17.6	18.1	18.5	19.6
8H	4H	16.4	16.9	17.3	17.8	18.8	16.4	16.9	17.2	17.8	18.8
	6H	17.1	17.5	18.0	18.4	19.5	17.1	17.5	18.0	18.4	19.5
	8H	17.5	17.8	18.4	18.7	19.8	17.5	17.9	18.4	18.8	19.9
	12H	17.8	18.1	18.7	19.0	20.1	17.8	18.1	18.7	19.0	20.1
12H	4H	16.5	16.9	17.3	17.8	18.9	16.4	16.9	17.3	17.8	18.8
	6H	17.2	17.6	18.1	18.5	19.6	17.2	17.6	18.1	18.5	19.6
	8H	17.6	17.9	18.5	18.8	19.9	17.6	18.0	18.5	18.9	20.0

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 586	
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°	6900.1	7343.9	7449.9	7306.7	6668.2	7292.4	7326.7
50°	4612.3	5291.4	6178.0	5288.2	4581.7	5207.5	6044.2
55°	3185.9	3639.7	5157.7	3623.7	3156.6	3545.0	5072.1
60°	2328.3	2820.8	4153.2	2851.8	2321.2	2783.8	4202.1
65°	2458.4	2854.0	3040.8	2924.1	2519.8	2925.3	2876.7
70°	2493.7	3040.2	1925.9	3097.0	2507.7	3102.9	1902.4
75°	3114.8	2802.2	2224.2	2863.3	3159.8	2841.9	2039.2
80°	3332.1	2523.0	3292.4	2450.1	3370.5	2571.5	3512.7
85°	3098.9	2897.8	2446.2	2907.5	3081.7	2968.5	2459.6

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Luminance values in cd/m²

γ 65°

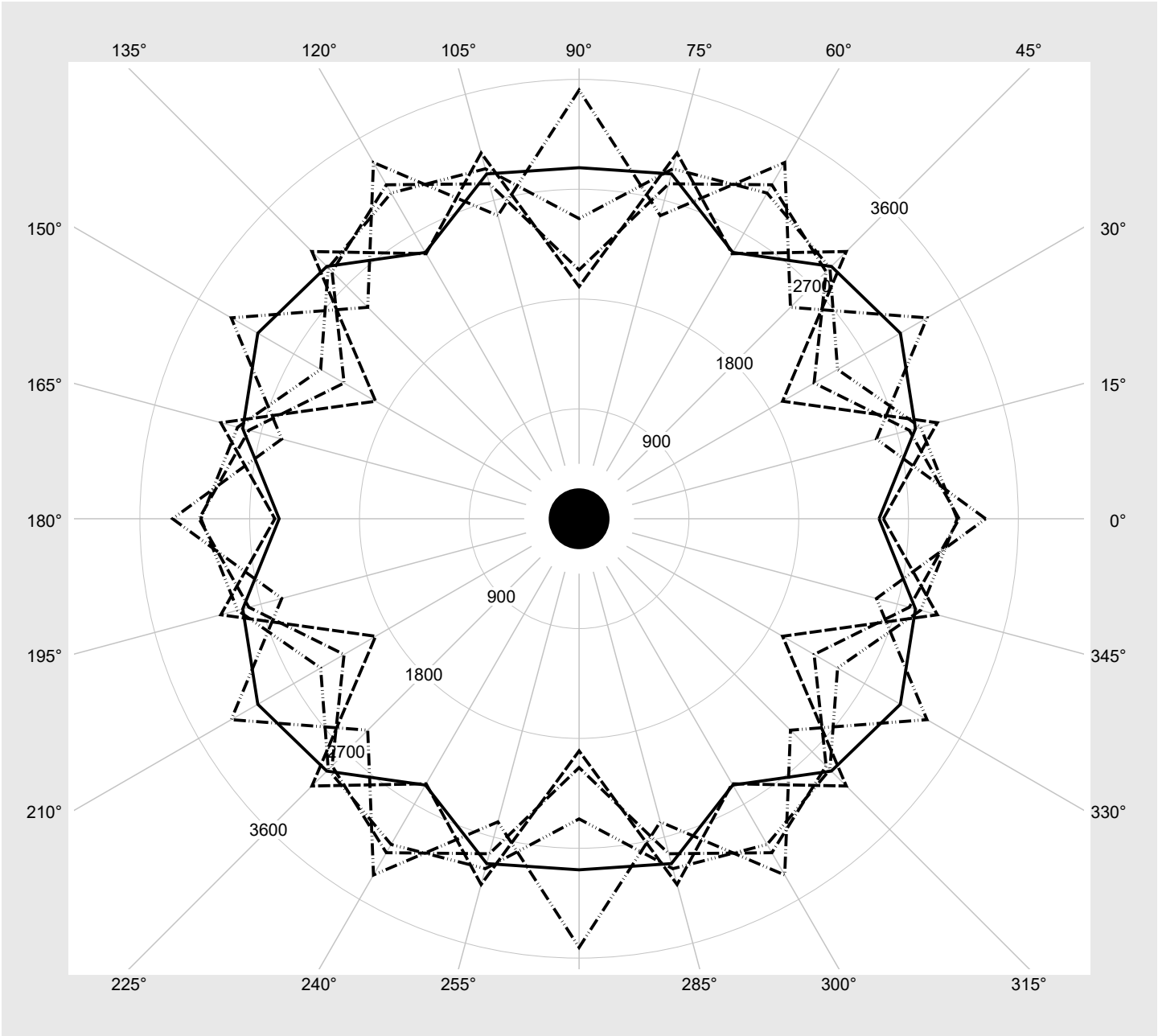
γ 70°

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	8110	51.0
95	241	252	7711	48.4
90	228	250	7310	45.8
85	215	248	6907	43.1
80	202	246	6502	40.6
75	189	243	6096	38.1
70	176	241	5688	35.6
65	163	238	5279	33.1
60	150	235	4867	30.5
55	137	231	4453	28.0
50	125	228	4070	25.7
45	112	224	3652	23.0
40	99	219	3233	20.5
35	87	215	2845	18.1
30	74	209	2423	15.6
25	62	202	2031	13.3
20	50	194	1638	11.0
15	37	183	1210	8.4
10	25	169	814	5.6
5	13	145	416	2.4
3	7	122	217	1.1