

Photometric test report

Family
Silica® 21 round M

Order number: 51MF33DB3MSA
EAN: 4069025808158

LP number
60082_4

serial
documentation
20.05.2026



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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 8110 lm
Power consumption = 48.4 W
Luminous efficacy = 167.6 lm/W

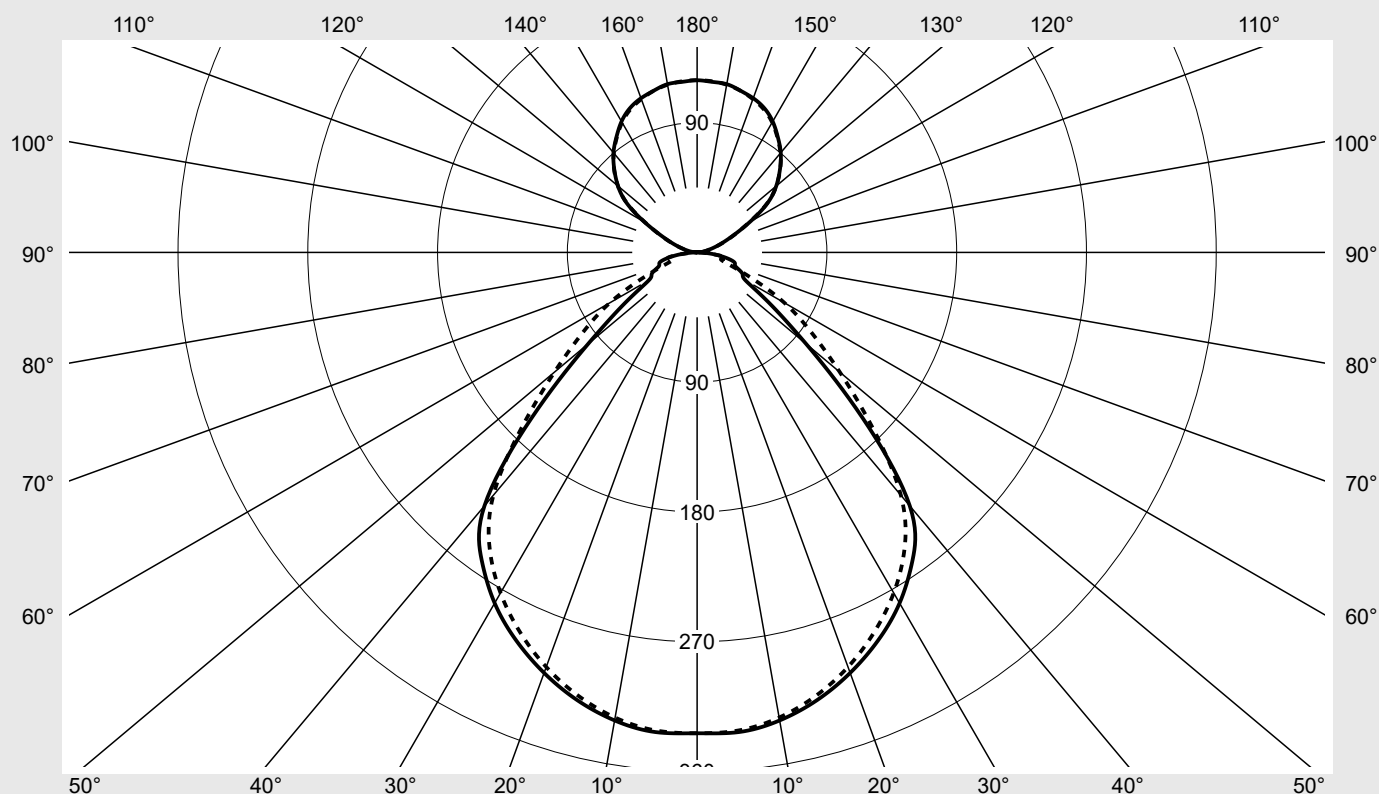
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Luminous intensity in cd/klm

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°

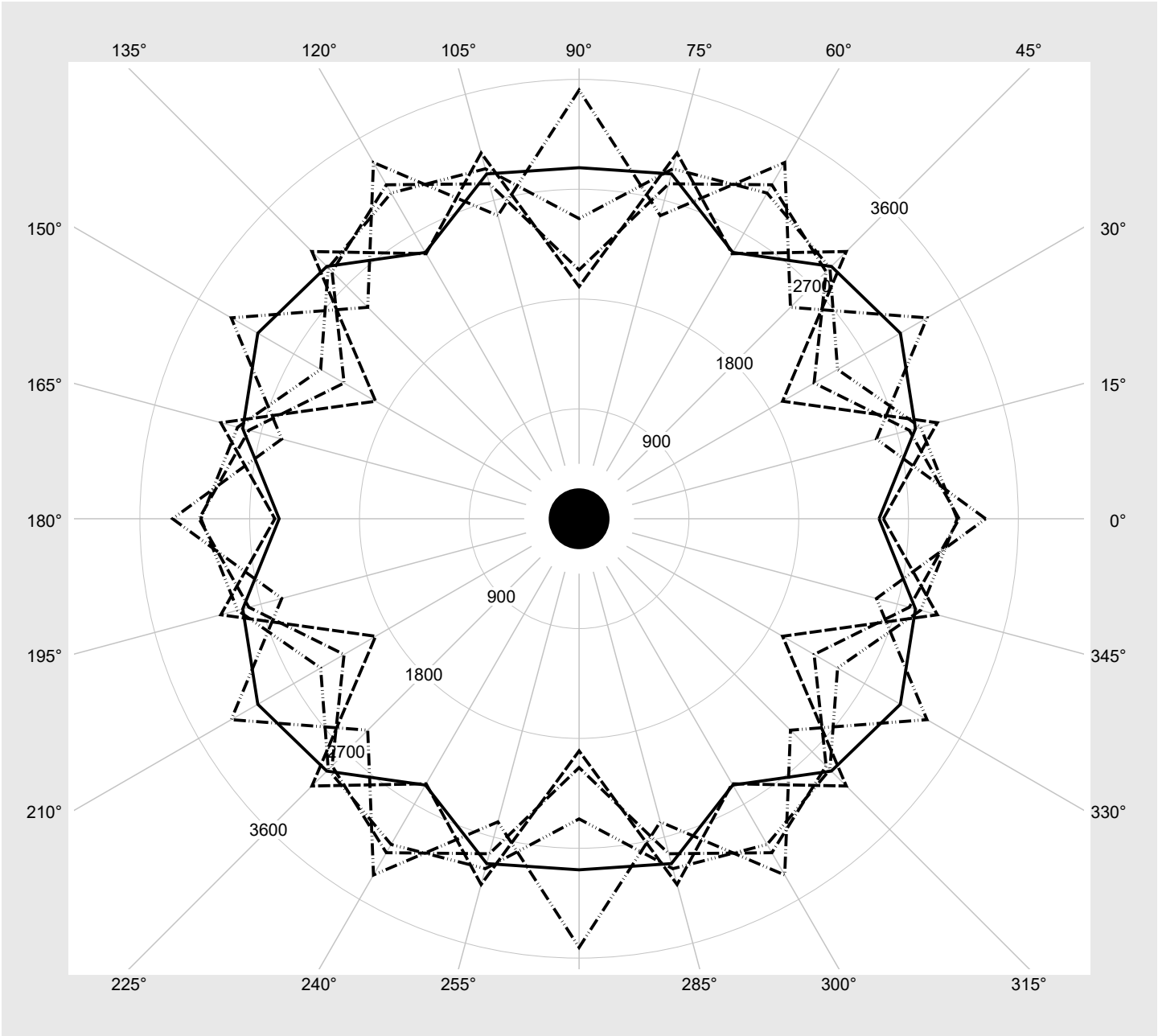
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8110	48.4
95	241	252	7703	45.9
90	228	250	7294	43.5
85	215	248	6885	41.0
80	202	246	6475	38.6
75	190	243	6095	36.5
70	177	241	5682	34.2
65	164	238	5268	31.8
60	151	235	4852	29.4
55	139	232	4466	27.1
50	126	228	4048	24.7
45	114	225	3660	22.4
40	101	220	3239	20.0
35	89	216	2849	17.7
30	76	210	2425	15.4
25	64	204	2033	13.1
20	51	195	1607	10.8
15	39	185	1212	8.6
10	27	172	816	5.9
5	15	150	420	2.8
2	7	122	154	1.0