

Photometric test report

Family
Silica® 21 round M

Order number: 51ME33DB4MSA
EAN: 4069025802996

LP number
60082_3

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 8110 lm
Power consumption = 50.5 W
Luminous efficacy = 160.6 lm/W

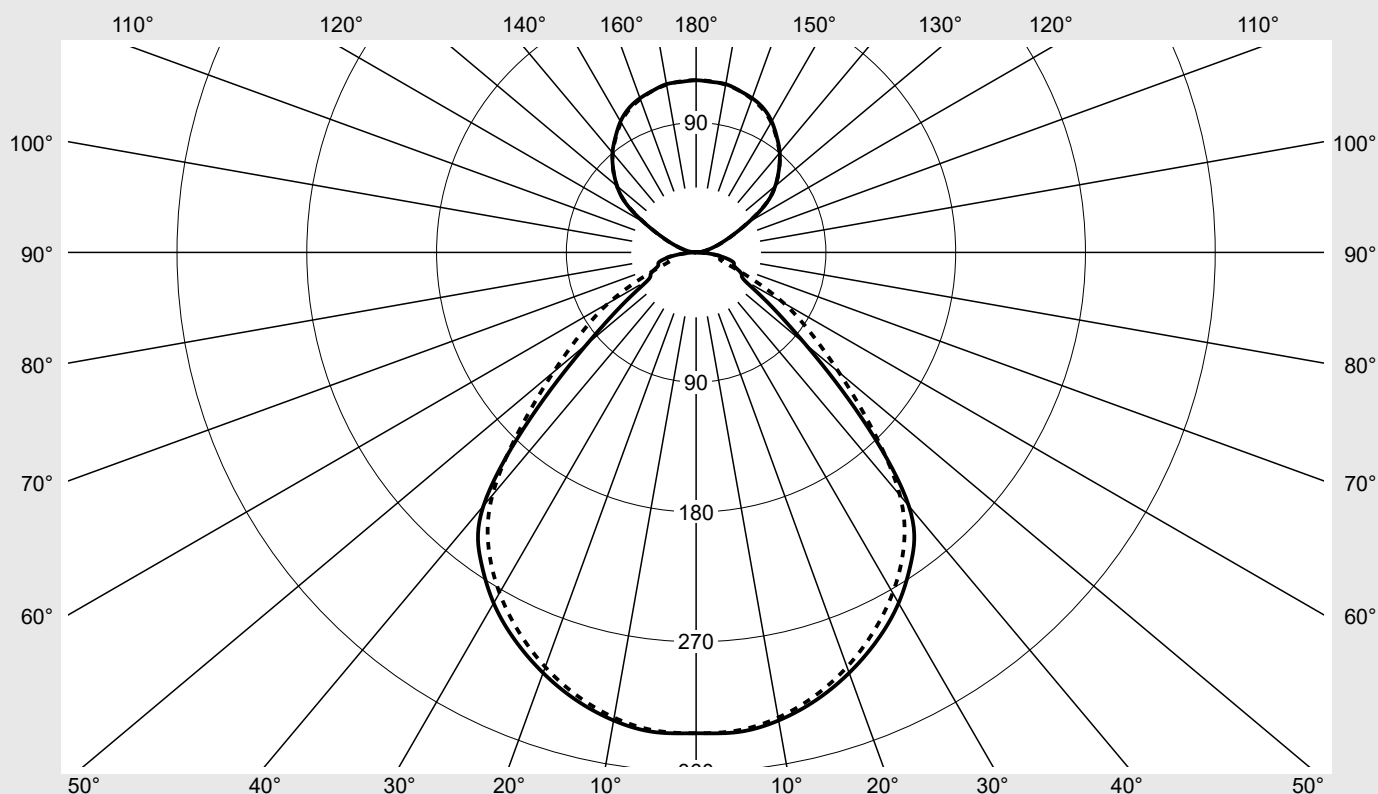
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Luminous intensity in cd/klm

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
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	14.8	15.9	15.6	16.6	17.6	14.6	15.7	15.4	16.5
	3H	15.4	16.4	16.2	17.1	18.1	15.3	16.2	16.1	17.0
	4H	15.9	16.7	16.7	17.5	18.5	15.6	16.4	16.4	17.2
	6H	16.3	17.1	17.1	17.9	18.9	16.0	16.8	16.8	17.6
4H	8H	16.5	17.2	17.3	18.0	19.0	16.2	16.9	17.0	17.7
	12H	16.6	17.3	17.4	18.1	19.2	16.3	17.0	17.1	17.8
	2H	15.0	15.8	15.7	16.6	17.6	14.8	15.7	15.6	16.5
	3H	15.7	16.4	16.5	17.3	18.3	15.7	16.4	16.5	17.3
	4H	16.3	16.9	17.1	17.7	18.8	16.2	16.9	17.1	17.7
	6H	16.8	17.4	17.7	18.3	19.3	16.8	17.4	17.6	18.2
8H	8H	17.0	17.5	17.9	18.4	19.5	17.0	17.5	17.9	18.4
	12H	17.3	17.7	18.1	18.6	19.7	17.2	17.6	18.1	18.5
	4H	16.4	16.9	17.3	17.8	18.8	16.4	16.9	17.2	17.8
	6H	17.1	17.5	18.0	18.4	19.5	17.1	17.5	18.0	18.4
	8H	17.5	17.8	18.4	18.7	19.8	17.5	17.9	18.4	18.8
	12H	17.8	18.1	18.7	19.0	20.1	17.8	18.1	18.7	19.0
12H	4H	16.5	16.9	17.3	17.8	18.9	16.4	16.9	17.3	17.8
	6H	17.2	17.6	18.1	18.5	19.6	17.2	17.6	18.1	18.5
	8H	17.6	17.9	18.5	18.8	19.9	17.6	18.0	18.5	18.9
	2H	14.8	15.9	15.6	16.6	17.6	14.6	15.7	15.4	16.5
	3H	15.4	16.4	16.2	17.1	18.1	15.3	16.2	16.1	17.0
	4H	15.9	16.7	16.7	17.5	18.5	15.6	16.4	16.4	17.2

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°

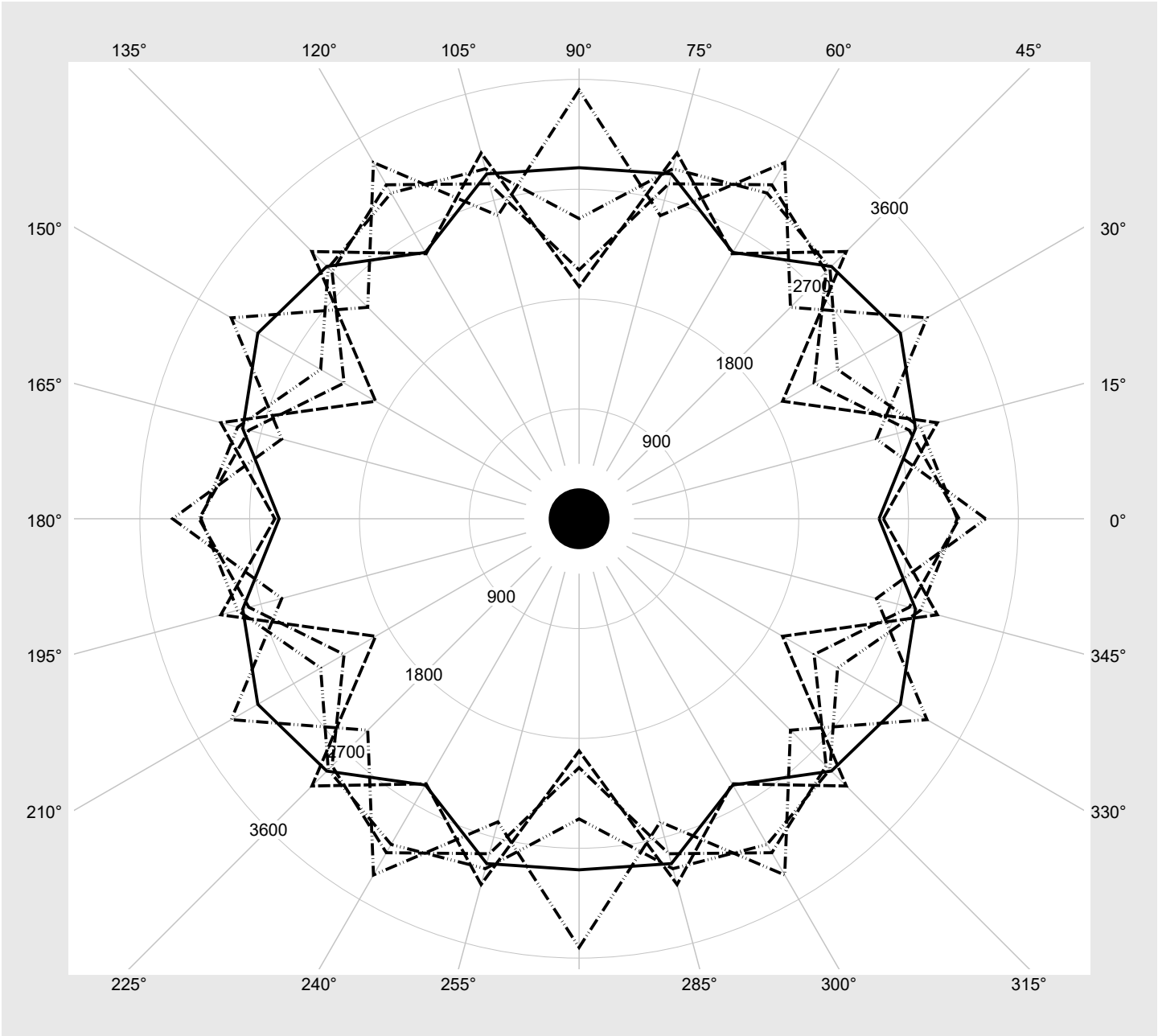
γ 70°

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	50.5
95	241	252	7700	47.9
90	228	250	7287	45.4
85	216	248	6906	43.0
80	203	246	6492	40.5
75	190	243	6079	38.1
70	177	241	5663	35.7
65	165	238	5279	33.4
60	152	235	4862	30.9
55	140	232	4476	28.6
50	127	229	4058	26.1
45	114	225	3638	23.6
40	102	221	3249	21.3
35	89	216	2828	18.7
30	77	210	2439	16.3
25	64	204	2016	13.9
20	52	196	1626	11.6
15	39	185	1201	9.1
10	27	172	809	6.3
5	15	150	416	3.1
2	7	122	153	1.1