

Photometric test report

Family
Silica® 21 round M

Order number: 51ME33DB3MSA
EAN: 4069025802934

LP number
60082_2

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 = 52.9 W
Luminous efficacy = 153.3 lm/W

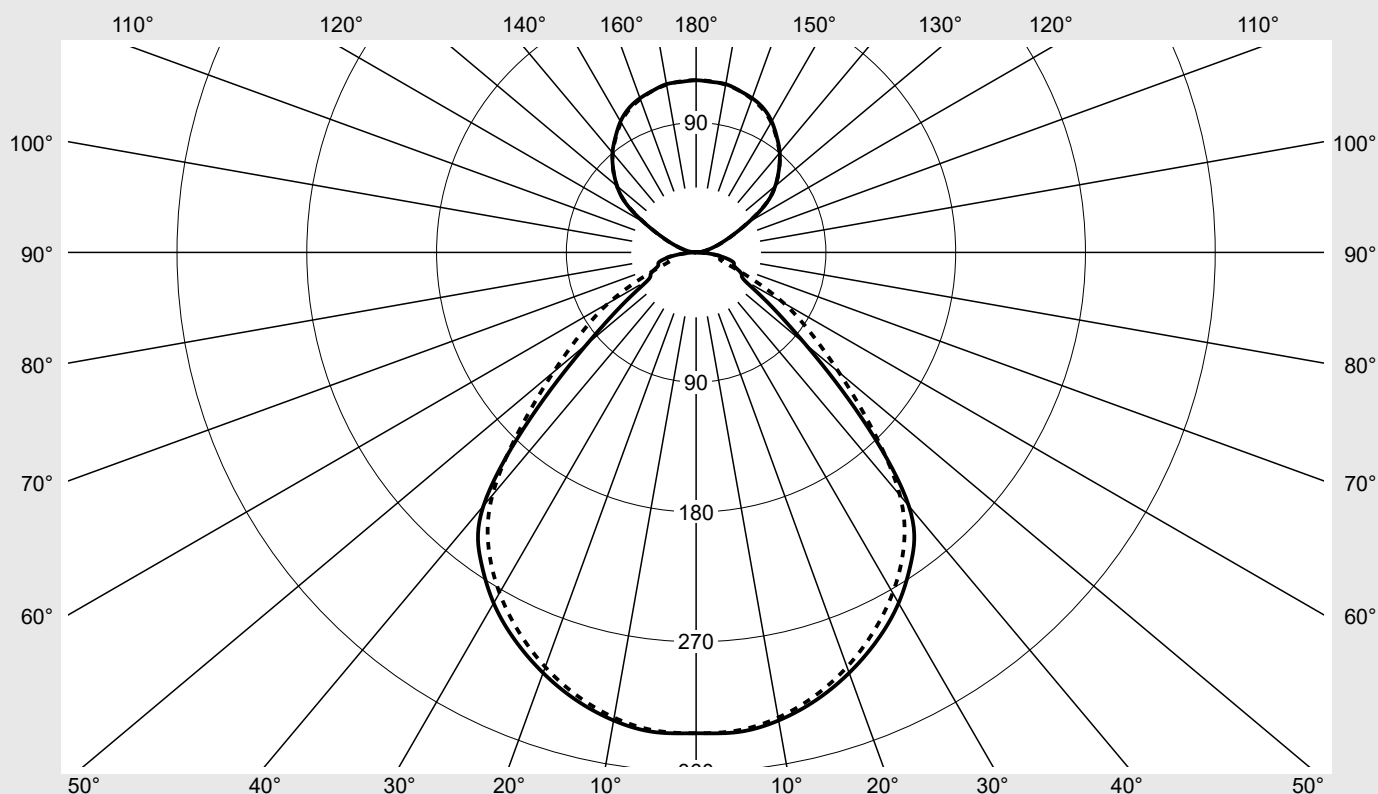
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Luminous intensity in cd/klm

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
	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
	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
4H	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	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
8H	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

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

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Luminance values in cd/m²

γ 65°

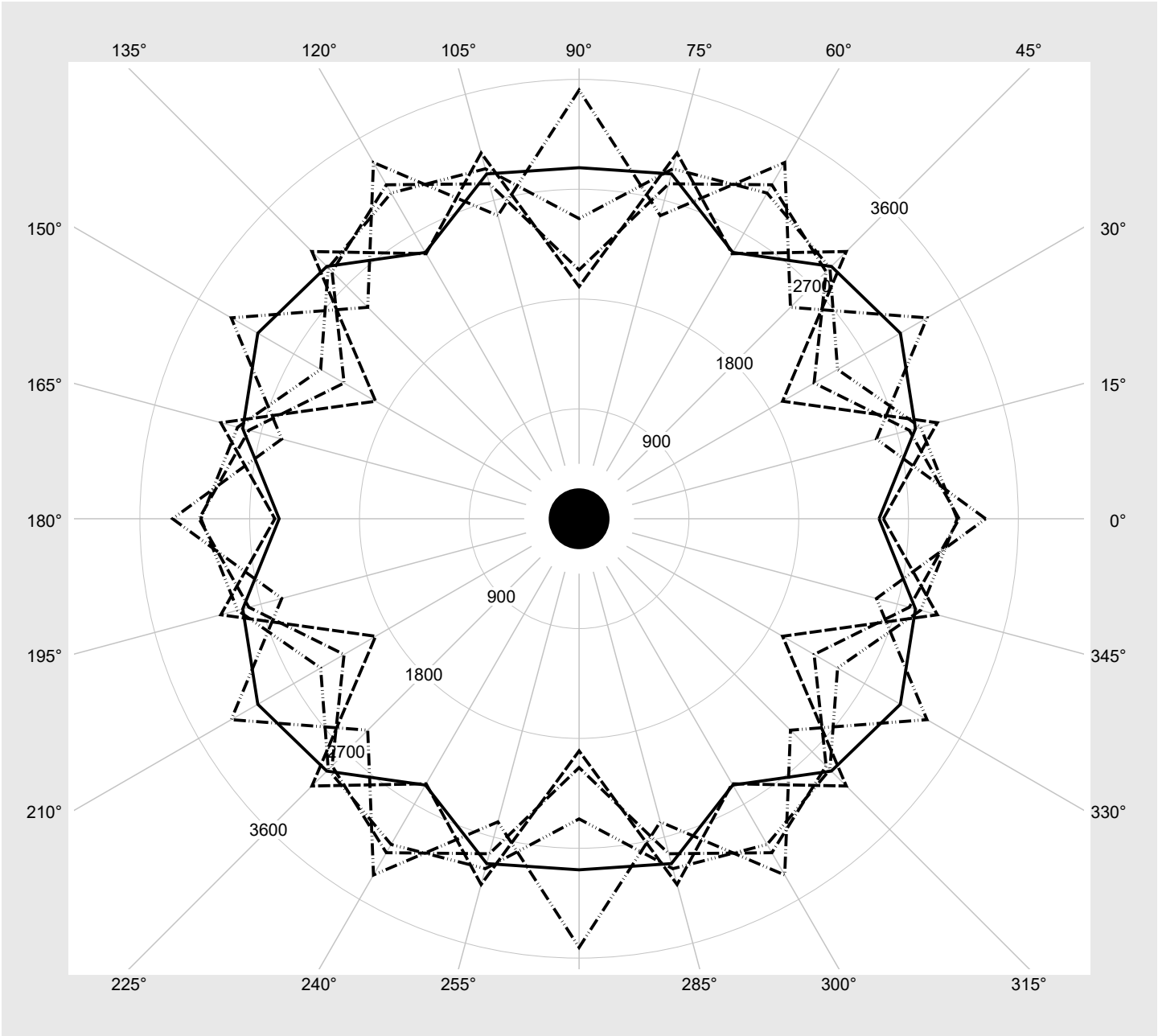
γ 70°

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	52.9
95	241	252	7701	50.2
90	228	250	7290	47.5
85	215	248	6878	44.8
80	203	246	6497	42.4
75	190	243	6084	39.8
70	177	241	5671	37.3
65	165	238	5287	35.0
60	152	235	4870	32.4
55	139	232	4453	29.8
50	127	229	4067	27.3
45	114	225	3647	24.6
40	102	221	3259	22.2
35	89	216	2837	19.5
30	77	210	2448	17.1
25	64	204	2024	14.4
20	52	196	1632	12.1
15	39	185	1208	9.5
10	27	172	815	6.6
5	15	150	421	3.3
2	6	117	124	0.9