

Photometric test report

Family
Silica® 21 round M

Order number: 51MF33DB4MBA
EAN: 4069025808196

LP number
60081_5

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 8220 lm
Power consumption = 48.0 W
Luminous efficacy = 171.2 lm/W

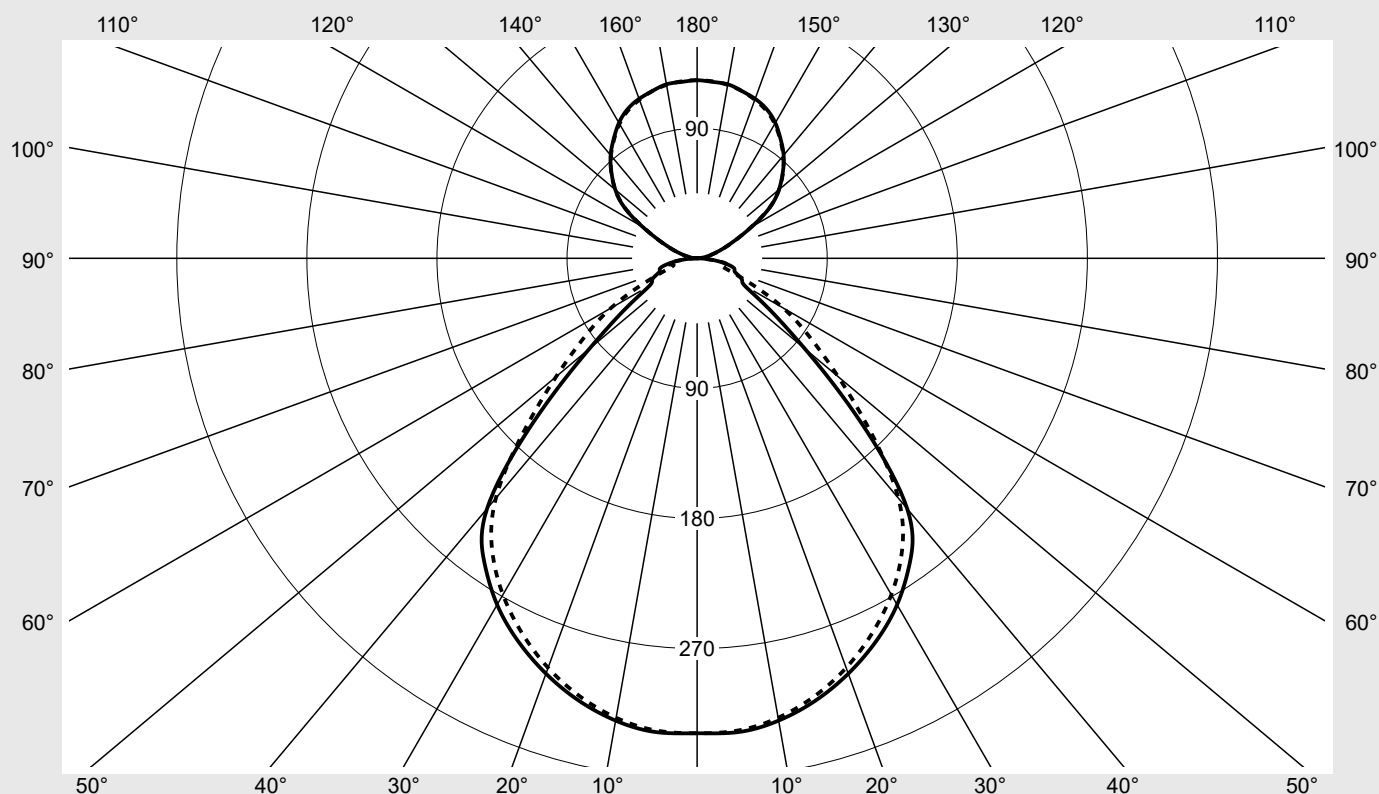
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 329 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=68 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 67.6%
 ϕ_o 32.4%

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°	328.6	328.6	328.6	328.6	328.6	328.6	328.6	2.0	2.0
5°	329.0	327.3	325.4	326.6	328.1	327.9	327.9	15.6	17.6
10°	324.8	323.0	320.8	321.7	323.1	322.8	322.8	30.7	48.3
15°	316.7	315.0	312.7	313.2	314.2	313.8	313.7	44.5	92.8
20°	305.8	304.0	301.4	301.5	302.1	301.6	301.5	56.7	149.5
25°	292.6	290.5	287.3	287.1	287.8	286.9	286.3	66.8	216.3
30°	276.7	274.3	270.5	270.3	271.2	269.8	268.7	74.4	290.7
35°	256.7	254.3	249.7	250.0	250.6	249.2	247.1	78.9	369.6
40°	226.1	226.2	222.1	221.8	218.1	219.2	216.6	78.0	447.6
45°	159.9	170.2	172.6	169.3	154.5	169.0	169.8	64.6	512.2
50°	97.2	111.5	130.1	111.4	96.5	109.7	127.3	47.0	559.2
55°	59.9	68.4	96.9	68.1	59.3	66.6	95.3	32.7	591.9
60°	38.2	46.2	68.1	46.7	38.0	45.6	68.9	23.6	615.5
65°	34.0	39.5	42.1	40.5	34.9	40.5	39.8	19.4	634.9
70°	28.0	34.1	21.6	34.7	28.1	34.8	21.3	15.3	650.2
75°	26.4	23.8	18.9	24.3	26.8	24.1	17.3	12.3	662.5
80°	19.0	14.4	18.7	13.9	19.2	14.6	20.0	9.0	671.6
85°	8.9	8.3	7.0	8.3	8.8	8.5	7.0	4.4	676.0
90°	0.7	0.9	0.5	0.8	0.6	0.6	0.4	0.3	676.4
95°	2.8	2.7	2.7	2.7	2.7	2.7	2.7	1.5	677.8
100°	6.3	6.2	6.2	6.3	6.3	6.3	6.3	3.4	681.2
105°	11.1	11.0	11.2	11.3	11.4	11.3	11.4	5.9	687.2
110°	18.3	18.1	18.4	18.6	18.6	18.6	18.6	9.5	696.7
115°	28.2	28.2	28.4	28.5	28.7	28.8	28.7	14.2	710.8
120°	43.5	43.3	43.2	43.2	43.1	43.1	43.0	20.5	731.3
125°	61.5	61.3	61.3	61.2	61.6	61.6	61.2	27.6	758.9
130°	73.9	73.8	73.9	74.2	74.6	74.3	74.0	31.1	790.0
135°	83.8	83.8	84.1	84.6	84.6	84.2	84.0	32.6	822.7
140°	93.1	92.9	93.0	93.3	93.2	92.9	92.8	32.8	855.5
145°	100.7	100.8	101.0	100.9	100.6	100.5	100.2	31.7	887.1
150°	108.2	108.2	108.2	108.0	107.7	107.6	107.4	29.6	916.7
155°	113.8	113.5	113.3	113.0	112.9	112.9	112.9	26.2	942.9
160°	117.4	117.1	116.9	116.6	116.9	116.5	116.7	21.9	964.8
165°	119.8	119.8	119.8	119.9	119.8	119.5	119.8	17.0	981.8
170°	122.2	122.2	122.2	121.9	121.5	121.7	121.8	11.6	993.4
175°	122.5	122.5	122.6	122.7	122.8	122.9	122.9	5.9	999.3
180°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	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)			
x	y									
2H	2H	14.8	15.8	15.5	16.6	17.5	14.6	15.6	15.3	16.4
	3H	15.3	16.3	16.1	17.1	18.1	15.2	16.1	16.0	16.9
	4H	15.8	16.7	16.6	17.5	18.5	15.5	16.4	16.3	17.2
	6H	16.2	17.0	17.1	17.8	18.9	15.9	16.7	16.8	17.5
	8H	16.4	17.1	17.2	17.9	19.0	16.1	16.8	16.9	17.7
	12H	16.5	17.2	17.4	18.0	19.1	16.2	16.9	17.1	17.7
4H	2H	14.9	15.7	15.7	16.5	17.5	14.7	15.6	15.5	16.4
	3H	15.6	16.4	16.5	17.2	18.2	15.6	16.4	16.5	17.2
	4H	16.2	16.8	17.0	17.7	18.7	16.1	16.8	17.0	17.6
	6H	16.8	17.3	17.6	18.2	19.2	16.7	17.3	17.6	18.1
	8H	16.9	17.4	17.8	18.3	19.4	16.9	17.4	17.8	18.3
	12H	17.2	17.6	18.1	18.5	19.6	17.1	17.5	18.0	18.4
8H	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	17.8	18.3	18.7	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	17.3	17.7	18.8	16.3	16.8	17.2	17.7
	6H	17.2	17.5	18.1	18.4	19.5	17.1	17.5	18.0	18.4
	8H	17.5	17.8	18.4	18.8	19.9	17.6	17.9	18.5	18.8

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°	6891.8	7335.0	7440.9	7297.8	6660.1	7283.6	7317.9
50°	4606.7	5285.0	6170.5	5281.8	4576.2	5201.1	6036.9
55°	3182.0	3635.2	5151.5	3619.4	3152.8	3540.7	5066.0
60°	2325.5	2817.4	4148.1	2848.4	2318.3	2780.4	4197.0
65°	2455.4	2850.5	3037.1	2920.6	2516.7	2921.8	2873.2
70°	2490.8	3036.5	1923.6	3093.2	2504.7	3099.1	1900.1
75°	3111.0	2798.9	2221.5	2859.9	3155.9	2838.4	2036.7
80°	3328.0	2519.9	3288.5	2447.2	3366.4	2568.3	3508.4
85°	3095.2	2894.1	2443.3	2903.9	3078.0	2965.1	2456.6

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Luminance values in cd/m²

γ 65°

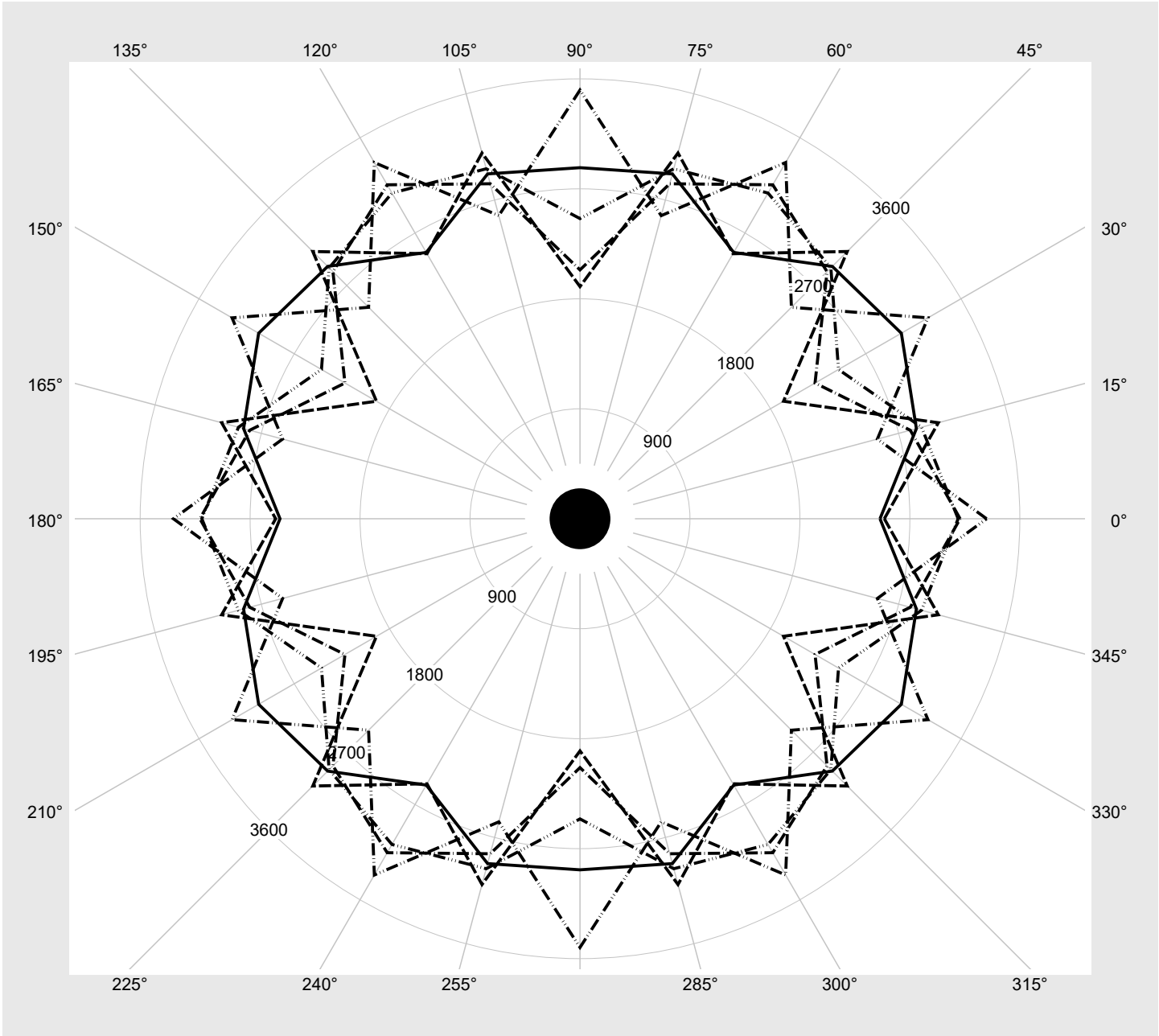
γ 70°

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	8220	48.0
95	241	252	7806	45.5
90	228	250	7391	43.1
85	215	248	6974	40.7
80	203	246	6589	38.5
75	190	243	6171	36.2
70	177	241	5751	33.9
65	164	238	5329	31.5
60	152	235	4938	29.3
55	139	232	4514	27.0
50	127	229	4121	24.7
45	114	225	3694	22.3
40	102	221	3298	20.0
35	89	216	2868	17.6
30	77	210	2470	15.4
25	65	204	2071	13.3
20	52	196	1636	11.0
15	40	186	1234	8.7
10	28	173	832	6.1
5	16	153	427	3.0
1	7	122	123	1.0