

Photometric test report

Family
Silica® 21 round M

Order number: 51MF33DBDMBA
EAN: 4069025808264

LP number
60081_6

serial
documentation
20.05.2026



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

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 8230 lm
Power consumption = 53.0 W
Luminous efficacy = 155.3 lm/W

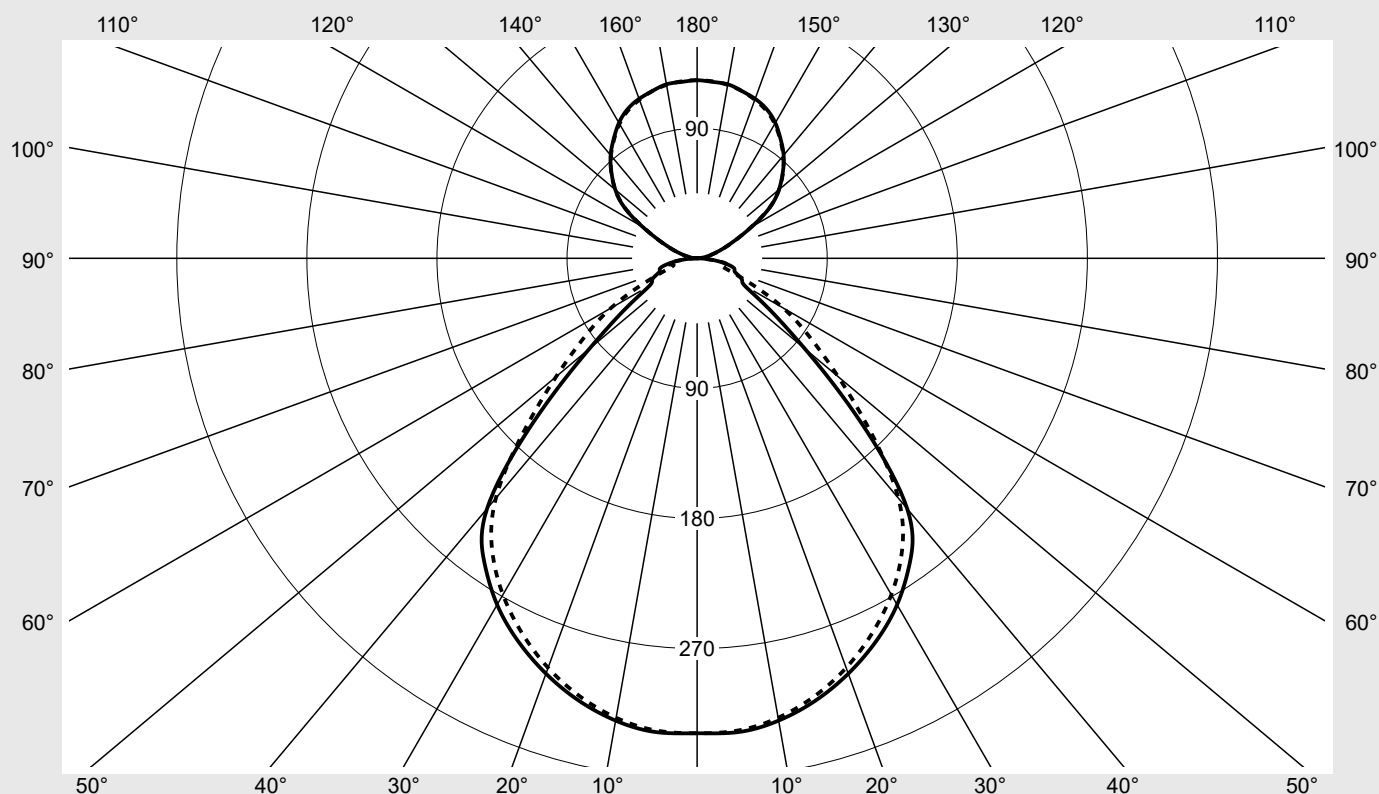
siteco

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	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	15.8	15.5	16.6	17.5	14.6	15.6	15.3	16.4	17.3
	3H	15.4	16.3	16.1	17.1	18.1	15.2	16.1	16.0	16.9	17.9
	4H	15.8	16.7	16.6	17.5	18.5	15.5	16.4	16.3	17.2	18.2
	6H	16.2	17.0	17.1	17.9	18.9	15.9	16.7	16.8	17.5	18.6
	8H	16.4	17.1	17.2	17.9	19.0	16.1	16.8	16.9	17.7	18.7
	12H	16.5	17.2	17.4	18.0	19.1	16.2	16.9	17.1	17.7	18.8
4H	2H	14.9	15.7	15.7	16.5	17.5	14.7	15.6	15.5	16.4	17.4
	3H	15.6	16.4	16.5	17.2	18.2	15.6	16.4	16.5	17.2	18.2
	4H	16.2	16.8	17.0	17.7	18.7	16.1	16.8	17.0	17.6	18.7
	6H	16.8	17.3	17.6	18.2	19.2	16.7	17.3	17.6	18.1	19.2
	8H	16.9	17.4	17.8	18.3	19.4	16.9	17.4	17.8	18.3	19.4
	12H	17.2	17.6	18.1	18.5	19.6	17.1	17.5	18.0	18.4	19.5
8H	4H	16.3	16.8	17.2	17.7	18.8	16.3	16.8	17.2	17.7	18.8
	6H	17.0	17.5	17.9	18.3	19.5	17.0	17.4	17.9	18.3	19.4
	8H	17.4	17.8	18.3	18.7	19.8	17.4	17.8	18.3	18.7	19.8
	12H	17.7	18.0	18.6	18.9	20.1	17.7	18.0	18.6	18.9	20.1
12H	4H	16.4	16.8	17.3	17.7	18.8	16.4	16.8	17.2	17.7	18.8
	6H	17.2	17.5	18.1	18.4	19.5	17.1	17.5	18.0	18.4	19.5
	8H	17.5	17.8	18.4	18.8	19.9	17.6	17.9	18.5	18.8	19.9

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°	6900.2	7344.0	7449.9	7306.7	6668.2	7292.4	7326.8
50°	4612.3	5291.4	6178.0	5288.3	4581.7	5207.5	6044.2
55°	3185.9	3639.7	5157.8	3623.8	3156.6	3545.0	5072.2
60°	2328.3	2820.8	4153.2	2851.8	2321.2	2783.8	4202.1
65°	2458.4	2854.0	3040.8	2924.2	2519.8	2925.4	2876.7
70°	2493.8	3040.2	1925.9	3097.0	2507.7	3102.9	1902.4
75°	3114.8	2802.3	2224.2	2863.4	3159.8	2841.9	2039.2
80°	3332.0	2522.9	3292.5	2450.2	3370.5	2571.4	3512.7
85°	3098.9	2897.6	2446.3	2907.4	3081.8	2968.7	2459.6

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Luminance values in cd/m²

γ 65°

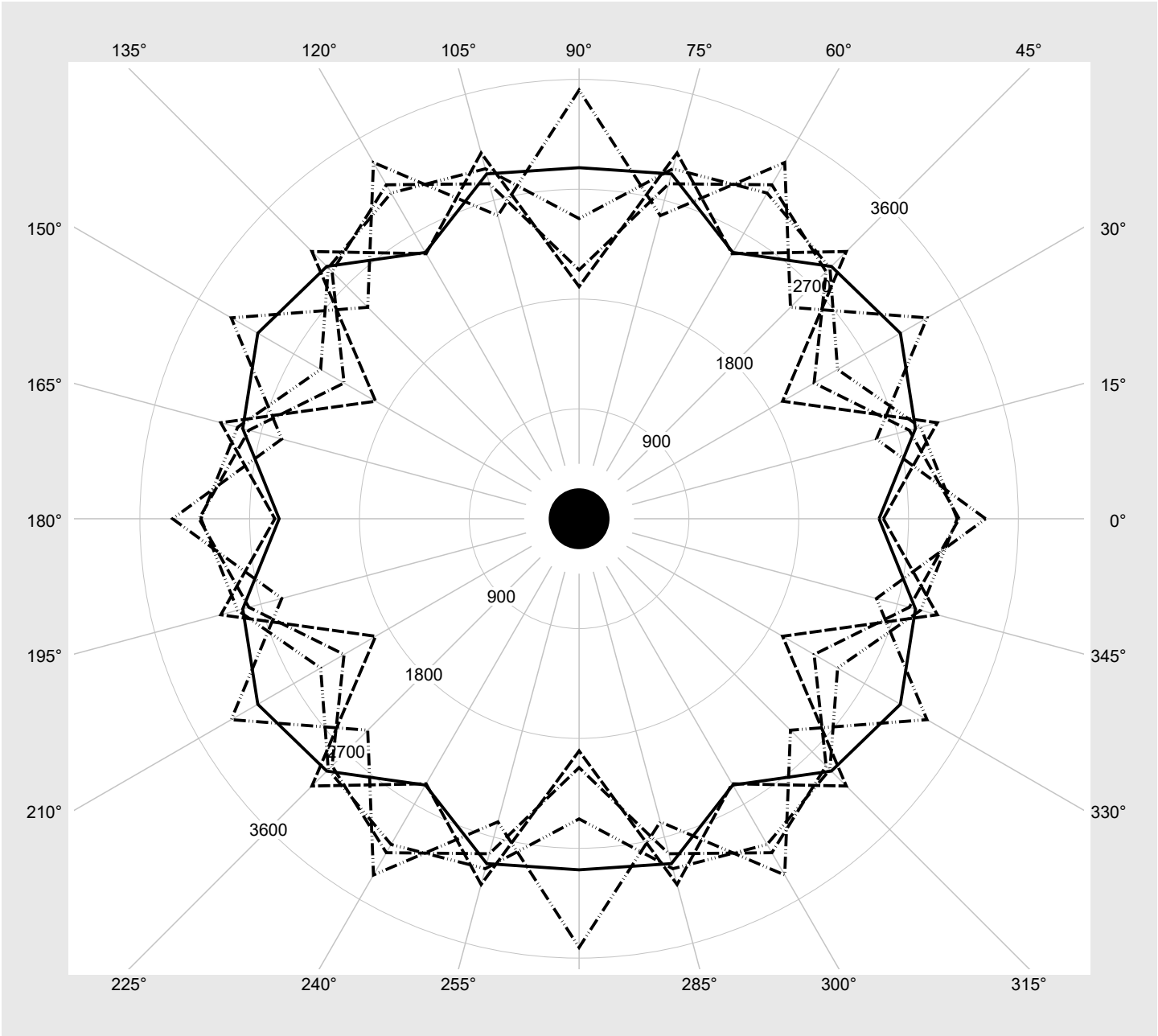
γ 70°

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	8230	53.0
95	241	252	7826	50.3
90	228	250	7420	47.6
85	215	248	7011	44.8
80	201	245	6569	41.9
75	188	243	6158	39.4
70	176	241	5776	36.9
65	163	238	5361	34.3
60	150	235	4943	31.7
55	137	231	4523	29.1
50	124	228	4101	26.4
45	112	224	3711	24.0
40	99	219	3285	21.2
35	87	215	2891	18.8
30	74	209	2462	16.1
25	62	202	2064	13.8
20	49	194	1632	11.2
15	37	183	1231	8.8
10	25	169	828	5.9
5	13	145	423	2.6
2	6	117	187	0.9