

Photometric test report

Family
Silica® 21 round M

Order number: 51ME33DB3MBA
EAN: 4069025802927

LP number
60081_2

serial
documentation
20.05.2026



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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 8230 lm
Power consumption = 54.9 W
Luminous efficacy = 149.9 lm/W

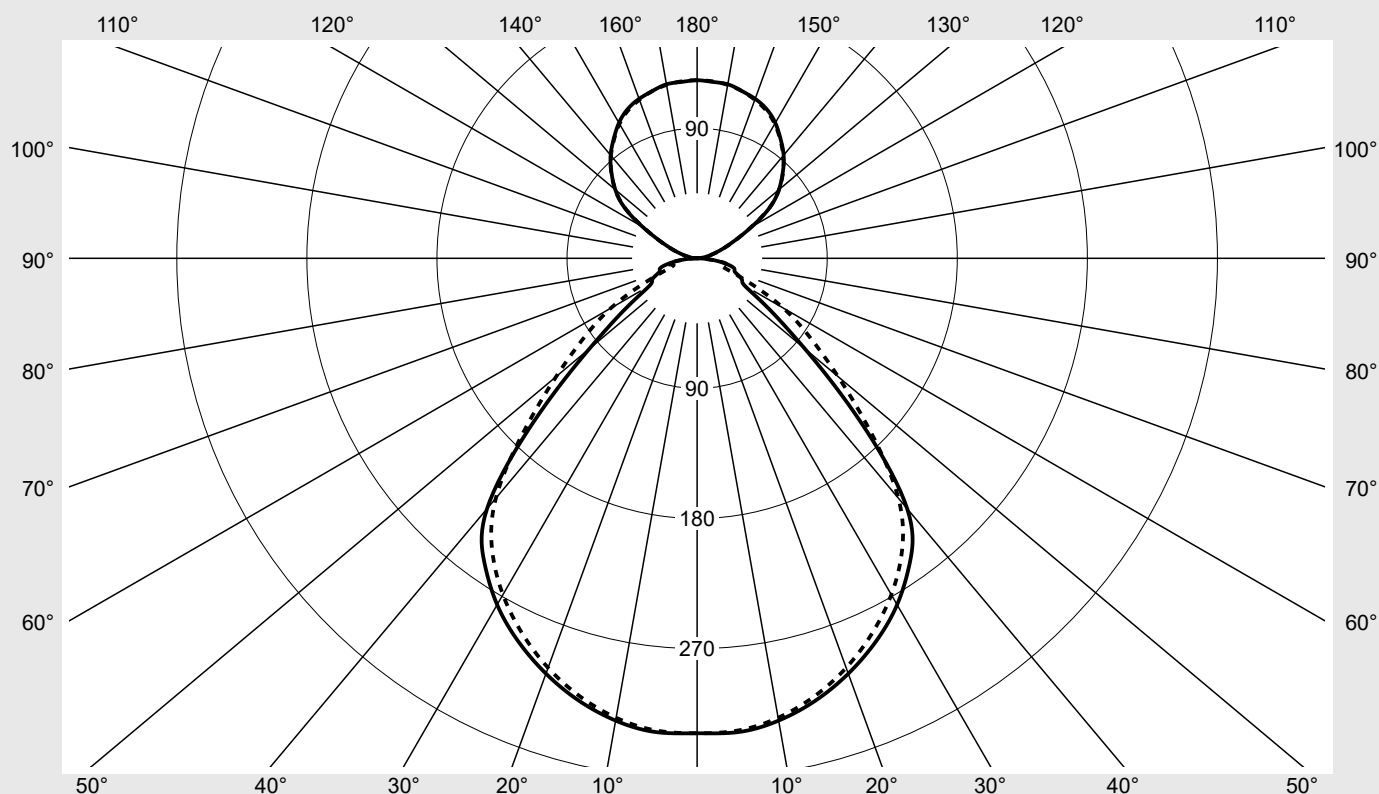
siteco

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°

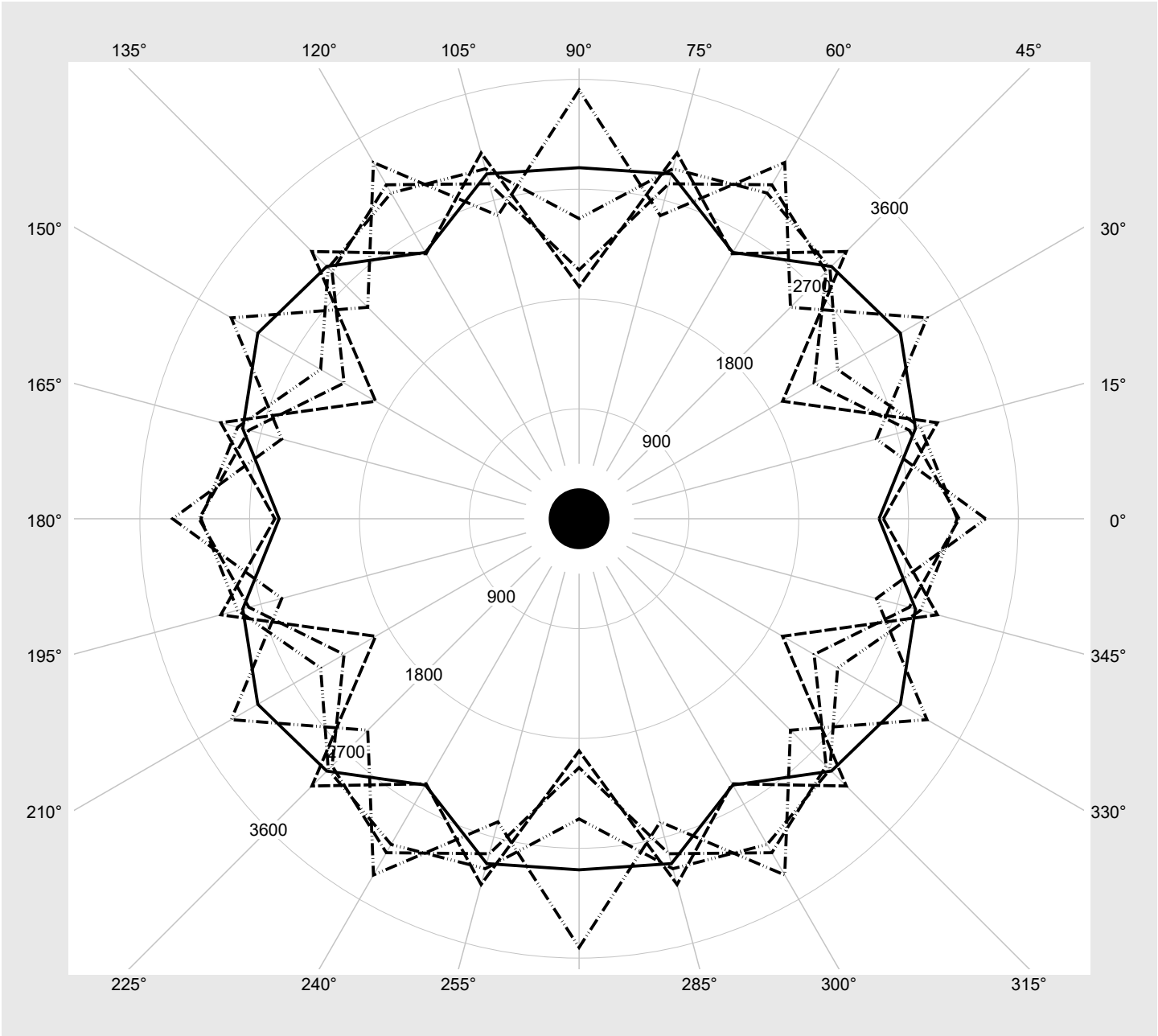
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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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	54.9
95	241	252	7816	52.1
90	228	250	7400	49.3
85	215	248	6983	46.5
80	203	246	6596	44.0
75	190	243	6177	41.2
70	177	241	5757	38.6
65	164	238	5336	36.0
60	152	235	4946	33.5
55	139	232	4523	30.8
50	127	229	4130	28.3
45	114	225	3705	25.5
40	101	220	3279	22.7
35	89	216	2883	20.2
30	76	210	2455	17.4
25	64	204	2058	14.9
20	52	196	1660	12.5
15	39	185	1229	9.8
10	27	172	830	6.9
5	14	148	397	3.2
2	6	117	129	1.0