

Photometric test report

Family
Silica® 21 round L

Order number: 51ME33DC3MBA
EAN: 4069025804631

LP number
60081_8

serial
documentation
20.05.2026

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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

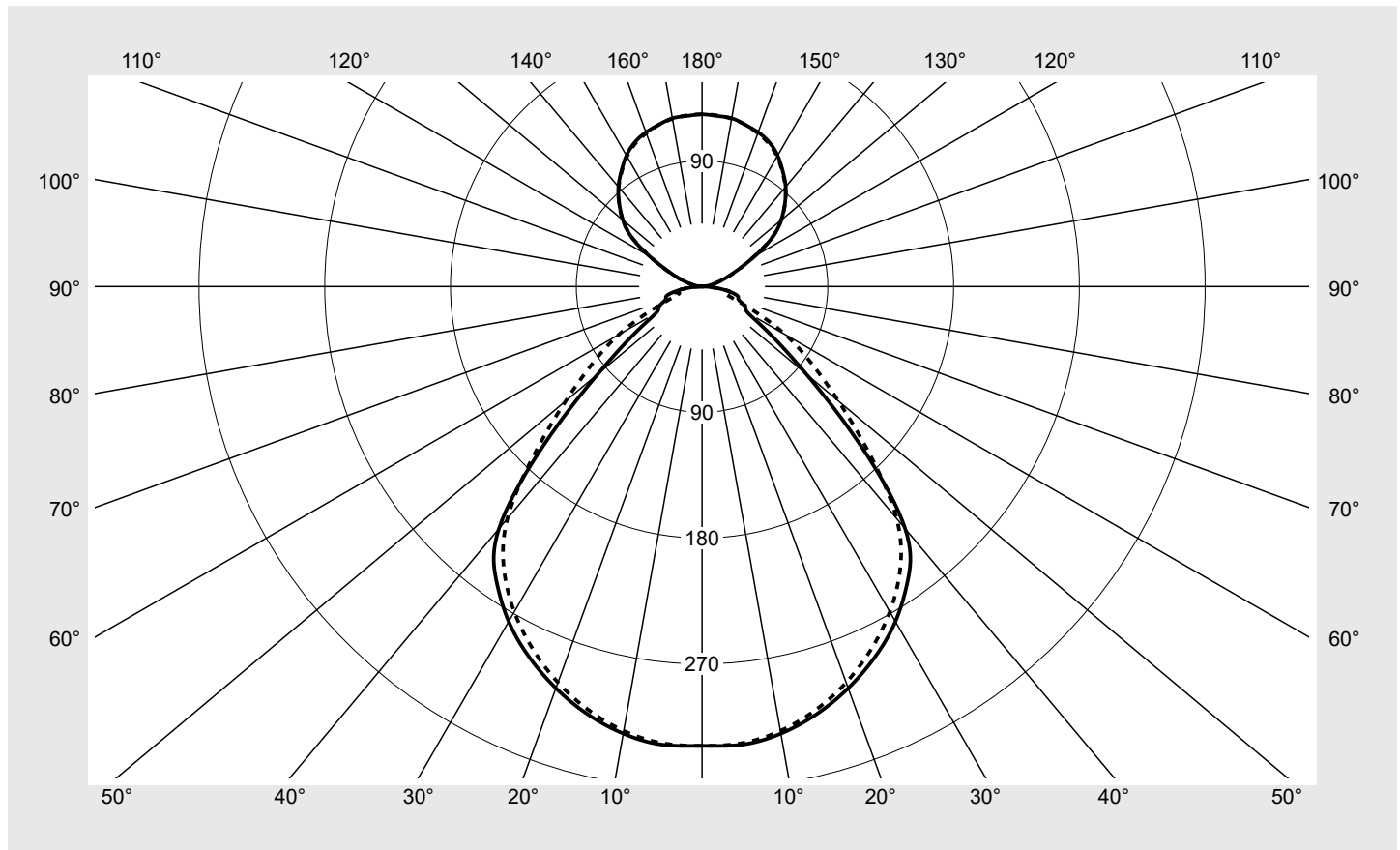
Rated values Net luminous flux = 13570 lm
Power consumption = 89.0 W
Luminous efficacy = 152.5 lm/W

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	13.6	14.7	14.4	15.4	16.4	13.4	14.5	14.2	15.2	16.2
	3H	14.2	15.1	15.0	15.9	16.9	14.1	15.0	14.9	15.8	16.8
	4H	14.7	15.5	15.5	16.3	17.3	14.4	15.2	15.2	16.0	17.0
	6H	15.1	15.9	15.9	16.7	17.7	14.8	15.6	15.6	16.4	17.4
	8H	15.2	15.9	16.1	16.8	17.8	15.0	15.7	15.8	16.5	17.6
	12H	15.4	16.1	16.2	16.9	18.0	15.1	15.8	15.9	16.6	17.7
4H	2H	13.7	14.6	14.5	15.4	16.4	13.6	14.5	14.4	15.3	16.3
	3H	14.5	15.2	15.3	16.1	17.1	14.5	15.2	15.3	16.1	17.1
	4H	15.0	15.7	15.9	16.5	17.6	15.0	15.6	15.9	16.5	17.6
	6H	15.6	16.2	16.5	17.0	18.1	15.6	16.1	16.4	17.0	18.1
	8H	15.8	16.3	16.7	17.2	18.3	15.8	16.3	16.6	17.1	18.2
	12H	16.0	16.5	16.9	17.4	18.5	16.0	16.4	16.9	17.3	18.4
8H	4H	15.2	15.7	16.1	16.6	17.6	15.2	15.7	16.0	16.5	17.6
	6H	15.9	16.3	16.8	17.2	18.3	15.9	16.3	16.8	17.2	18.3
	8H	16.3	16.6	17.2	17.5	18.7	16.3	16.6	17.2	17.5	18.7
	12H	16.6	16.9	17.5	17.8	18.9	16.6	16.9	17.5	17.8	18.9
12H	4H	15.2	15.7	16.1	16.6	17.7	15.2	15.7	16.1	16.5	17.6
	6H	16.0	16.4	16.9	17.3	18.4	16.0	16.4	16.9	17.3	18.4
	8H	16.4	16.7	17.3	17.6	18.7	16.4	16.7	17.3	17.6	18.8

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 886	
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°	4977.0	5297.1	5373.5	5270.2	4809.7	5259.9	5284.7
50°	3326.8	3816.6	4456.1	3814.4	3304.7	3756.1	4359.6
55°	2297.9	2625.2	3720.2	2613.8	2276.8	2557.0	3658.5
60°	1679.4	2034.6	2995.6	2057.0	1674.2	2007.9	3030.9
65°	1773.2	2058.5	2193.3	2109.2	1817.5	2110.0	2074.9
70°	1798.7	2192.8	1389.1	2233.8	1808.8	2238.1	1372.2
75°	2246.7	2021.2	1604.3	2065.3	2279.1	2049.8	1470.9
80°	2403.3	1819.8	2374.8	1767.3	2431.1	1854.8	2533.6
85°	2235.2	2090.0	1764.5	2097.1	2222.8	2141.3	1774.1

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Luminance values in cd/m²

γ 65°

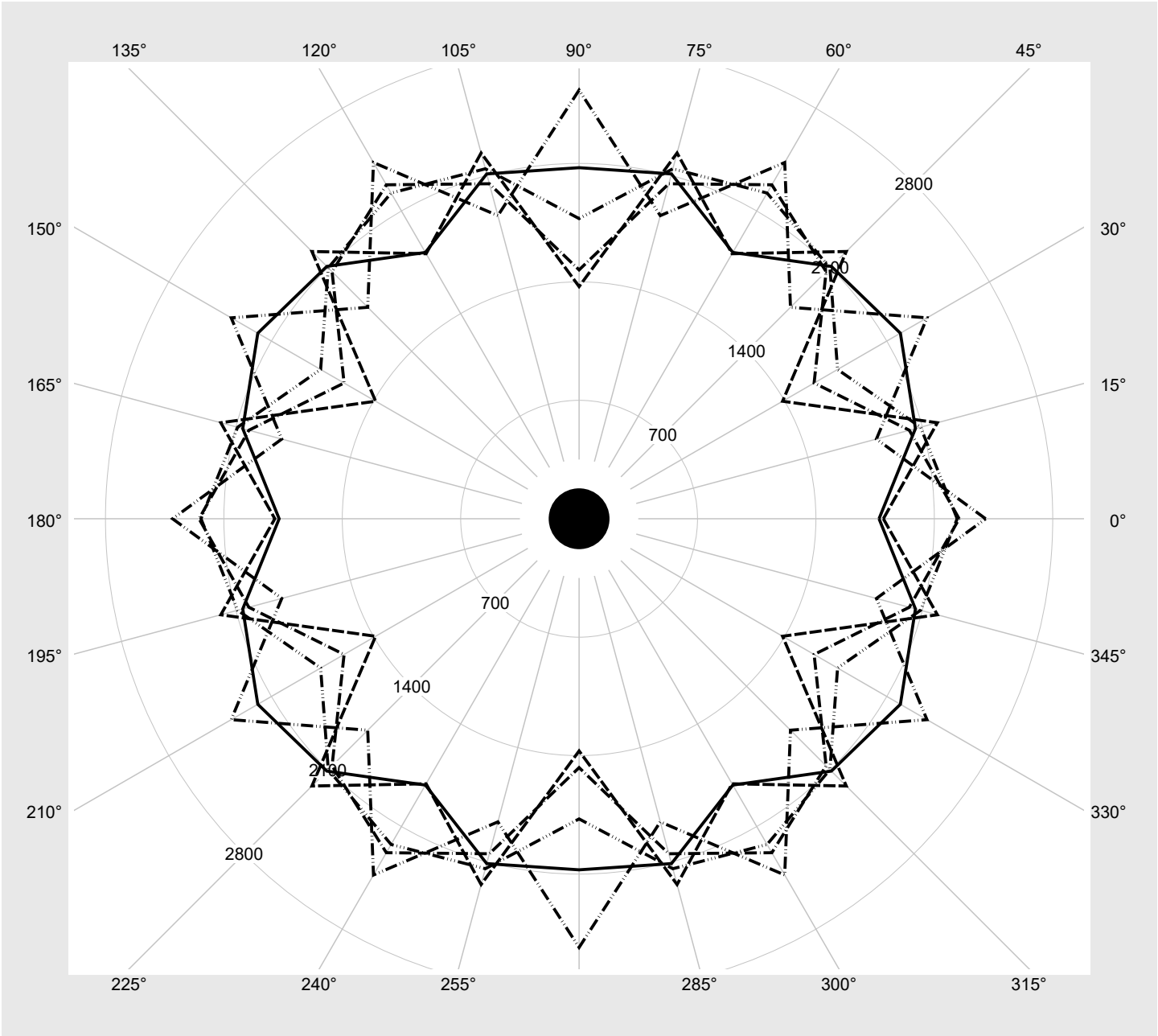
γ 70°

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	13570	89.0
95	241	252	12882	84.6
90	228	250	12192	80.1
85	216	248	11554	75.9
80	203	246	10862	71.4
75	190	243	10167	66.9
70	178	241	9524	62.8
65	165	238	8826	58.4
60	152	235	8127	53.9
55	140	232	7481	49.8
50	127	229	6780	45.5
45	115	225	6129	41.4
40	102	221	5424	37.0
35	90	216	4773	33.0
30	77	210	4066	28.9
25	65	204	3411	25.0
20	52	196	2702	20.5
15	40	186	2045	16.2
10	27	172	1333	11.4
5	15	150	675	7.0
2	8	127	289	4.5