

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DCEMBA
EAN: 4069025808554

LP number
60081_13

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 4000 K | CRI ≥ 90

Controlgear ECG-DALI

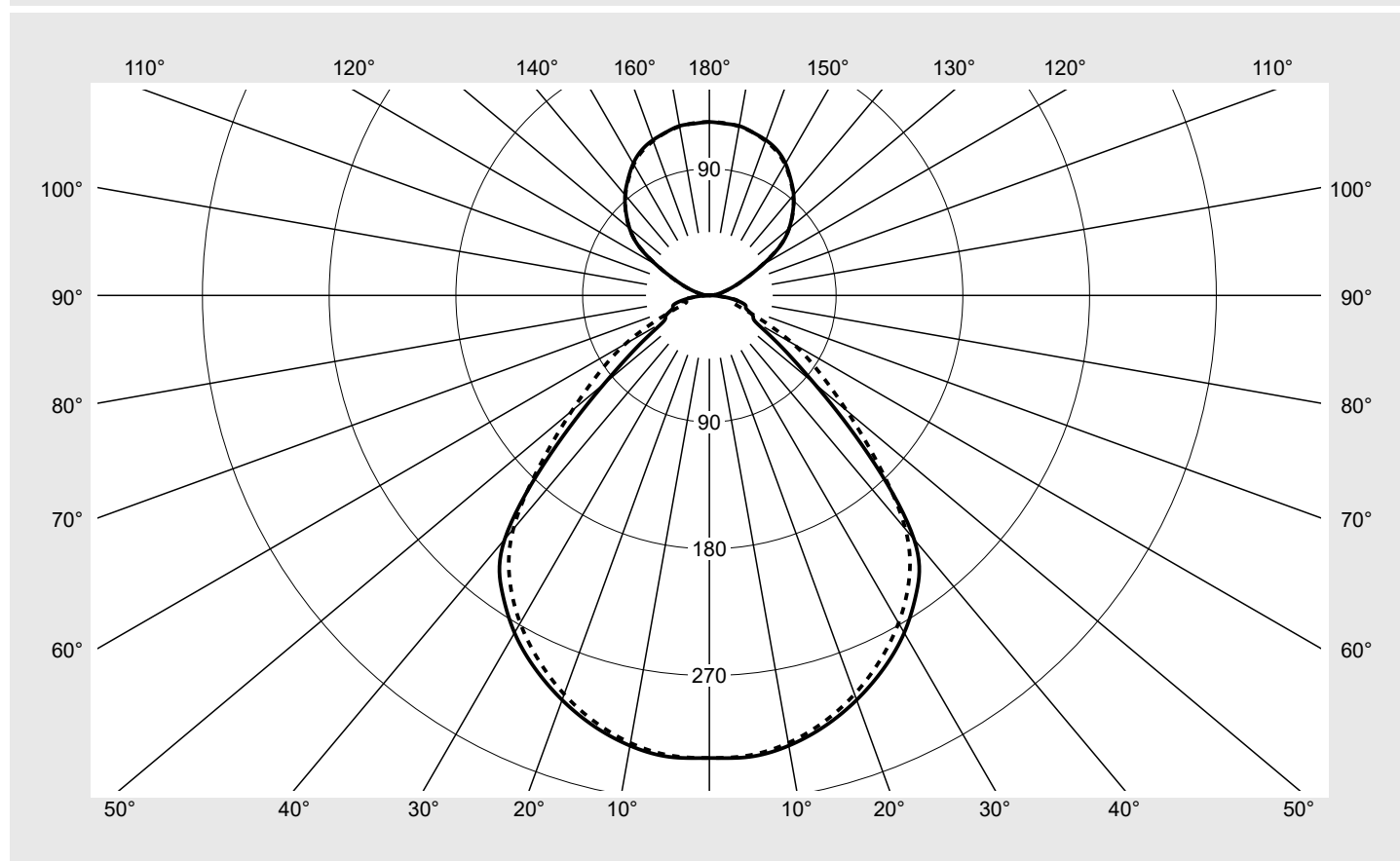
Rated values Net luminous flux = 14490 lm
Power consumption = 90.2 W
Luminous efficacy = 160.6 lm/W

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	13.9	14.9	14.6	15.7	16.6	13.7	14.7	14.4	15.5	16.4
	3H	14.4	15.4	15.2	16.2	17.2	14.3	15.2	15.1	16.0	17.0
	4H	14.9	15.7	15.7	16.6	17.6	14.6	15.4	15.4	16.3	17.3
	6H	15.3	16.1	16.2	16.9	18.0	15.0	15.8	15.8	16.6	17.7
	8H	15.5	16.2	16.3	17.0	18.1	15.2	15.9	16.0	16.8	17.8
	12H	15.6	16.3	16.5	17.1	18.2	15.3	16.0	16.2	16.8	17.9
4H	2H	14.0	14.8	14.8	15.6	16.6	13.8	14.7	14.6	15.5	16.5
	3H	14.7	15.4	15.6	16.3	17.3	14.7	15.4	15.6	16.3	17.3
	4H	15.3	15.9	16.1	16.8	17.8	15.2	15.9	16.1	16.7	17.8
	6H	15.9	16.4	16.7	17.3	18.3	15.8	16.4	16.7	17.2	18.3
	8H	16.0	16.5	16.9	17.4	18.5	16.0	16.5	16.9	17.4	18.5
	12H	16.3	16.7	17.2	17.6	18.7	16.2	16.6	17.1	17.5	18.6
8H	4H	15.4	15.9	16.3	16.8	17.9	15.4	15.9	16.3	16.8	17.9
	6H	16.1	16.5	17.0	17.4	18.6	16.1	16.5	17.0	17.4	18.5
	8H	16.5	16.9	17.4	17.8	18.9	16.5	16.9	17.4	17.8	18.9
	12H	16.8	17.1	17.7	18.0	19.2	16.8	17.1	17.7	18.0	19.2
12H	4H	15.5	15.9	16.4	16.8	17.9	15.4	15.9	16.3	16.8	17.9
	6H	16.3	16.6	17.2	17.5	18.6	16.2	16.6	17.1	17.5	18.6
	8H	16.6	16.9	17.5	17.8	19.0	16.7	17.0	17.6	17.9	19.0

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°	5314.4	5656.2	5737.8	5627.5	5135.8	5616.5	5643.0
50°	3552.3	4075.4	4758.3	4073.0	3528.8	4010.7	4655.2
55°	2453.7	2803.2	3972.5	2791.0	2431.2	2730.3	3906.5
60°	1793.2	2172.6	3198.7	2196.4	1787.7	2144.1	3236.4
65°	1893.5	2198.1	2342.0	2252.1	1940.7	2253.1	2215.6
70°	1920.7	2341.5	1483.3	2385.3	1931.4	2389.8	1465.2
75°	2399.0	2158.3	1713.1	2205.3	2433.6	2188.8	1570.6
80°	2566.3	1943.1	2535.8	1887.1	2595.9	1980.5	2705.4
85°	2386.8	2231.7	1884.1	2239.2	2373.5	2286.4	1894.4

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Luminance values in cd/m²

γ 65°

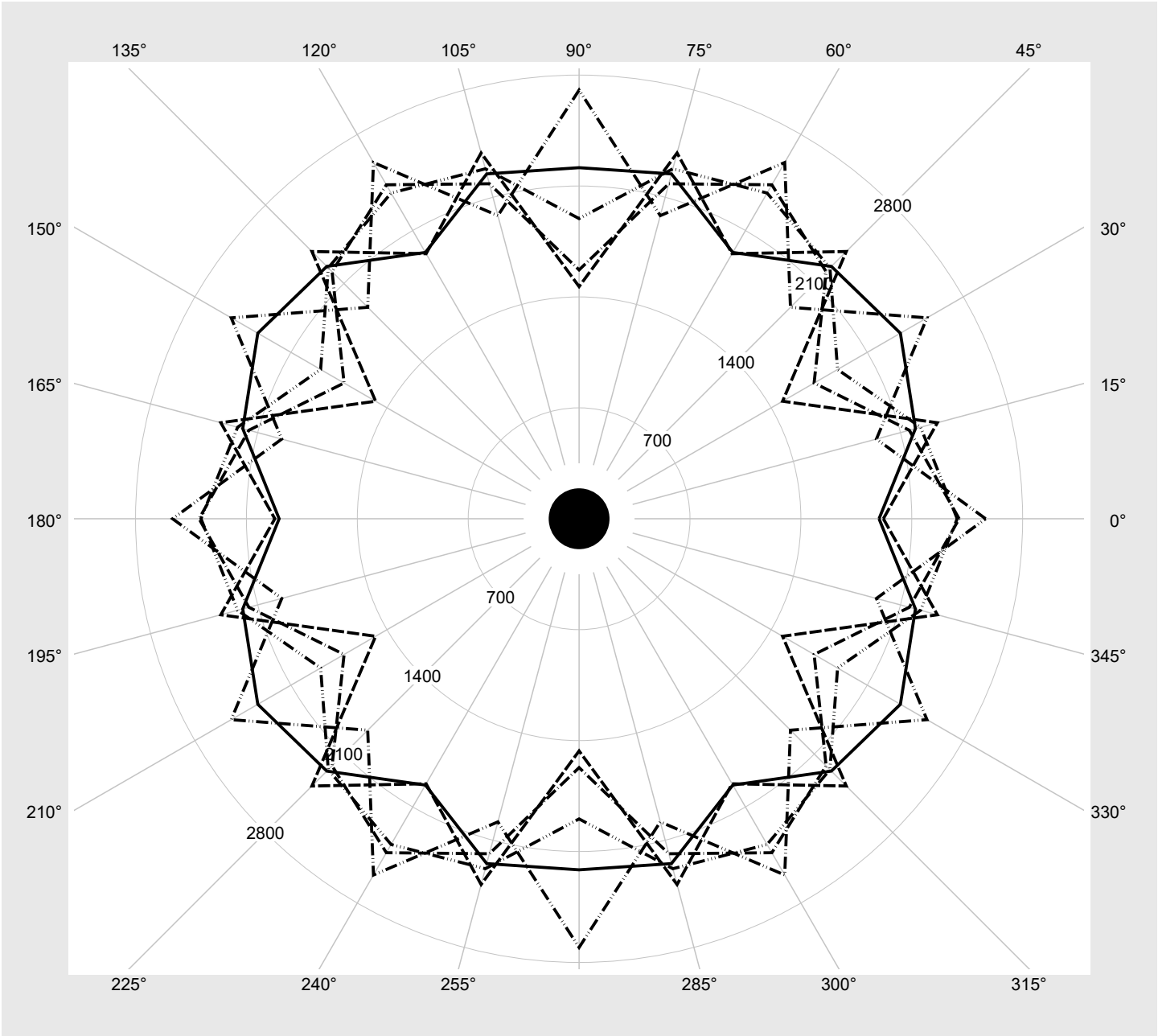
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14490	90.2
95	241	252	13773	85.6
90	228	250	13056	81.0
85	215	248	12334	76.3
80	202	246	11610	71.7
75	189	243	10882	67.0
70	176	241	10151	62.4
65	163	238	9416	57.9
60	150	235	8679	53.4
55	138	232	7997	49.2
50	125	228	7255	44.8
45	112	224	6508	40.4
40	100	220	5816	36.2
35	87	215	5065	31.9
30	75	209	4370	28.0
25	62	202	3613	23.7
20	50	194	2913	19.5
15	37	183	2150	14.8
10	25	169	1444	10.4
5	13	145	736	6.1
3	8	127	440	4.3