

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DC4MSA
EAN: 4069025808455

LP number
60082_11

serial
documentation
20.05.2026

siteco



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

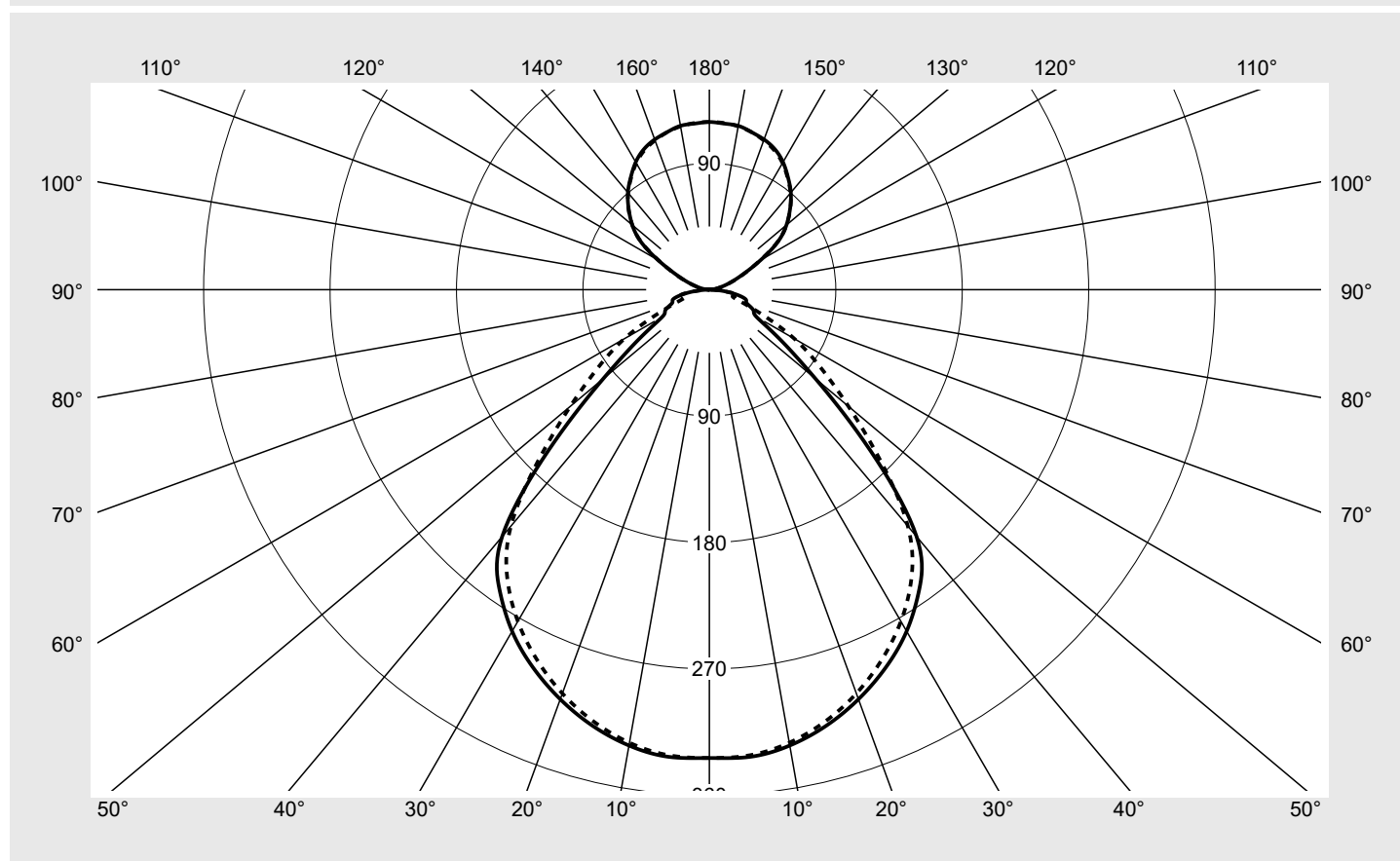
Rated values Net luminous flux = 15730 lm
Power consumption = 88.8 W
Luminous efficacy = 177.1 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 334 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=69 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 68.6%
 ϕ_o 31.4%

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°	333.5	333.5	333.5	333.5	333.5	333.5	333.5	2.0	2.0
5°	333.9	332.1	330.2	331.4	333.0	332.8	332.7	15.9	17.9
10°	329.6	327.7	325.6	326.5	327.9	327.6	327.5	31.2	49.0
15°	321.4	319.7	317.3	317.9	318.8	318.5	318.3	45.2	94.2
20°	310.3	308.5	305.8	306.0	306.6	306.1	305.9	57.5	151.7
25°	296.9	294.8	291.5	291.4	292.0	291.2	290.6	67.7	219.5
30°	280.8	278.3	274.5	274.3	275.2	273.8	272.7	75.5	295.0
35°	260.5	258.1	253.4	253.7	254.3	252.8	250.8	80.1	375.1
40°	229.5	229.5	225.3	225.1	221.4	222.4	219.8	79.2	454.2
45°	162.3	172.7	175.2	171.8	156.8	171.5	172.3	65.6	519.8
50°	98.6	113.1	132.1	113.0	97.9	111.3	129.2	47.7	567.5
55°	60.8	69.4	98.4	69.1	60.2	67.6	96.7	33.2	600.7
60°	38.7	46.9	69.1	47.4	38.6	46.3	69.9	23.9	624.6
65°	34.6	40.1	42.7	41.1	35.4	41.1	40.4	19.7	644.3
70°	28.4	34.6	21.9	35.2	28.5	35.3	21.6	15.5	659.8
75°	26.8	24.1	19.1	24.6	27.2	24.5	17.6	12.5	672.3
80°	19.2	14.6	19.0	14.1	19.5	14.9	20.3	9.2	681.5
85°	9.0	8.4	7.1	8.4	8.9	8.6	7.1	4.5	686.0
90°	0.7	0.8	0.5	0.7	0.5	0.6	0.3	0.3	686.3
95°	2.7	2.6	2.6	2.6	2.7	2.6	2.6	1.4	687.8
100°	6.1	6.0	6.0	6.1	6.1	6.1	6.1	3.3	691.1
105°	10.8	10.7	10.8	10.9	11.0	10.9	11.0	5.8	696.8
110°	17.7	17.6	17.9	18.0	18.1	18.0	18.1	9.2	706.0
115°	27.3	27.3	27.5	27.6	27.8	27.9	27.8	13.7	719.8
120°	42.2	42.0	41.8	41.9	41.8	41.8	41.7	19.9	739.6
125°	59.6	59.4	59.4	59.3	59.7	59.7	59.3	26.7	766.3
130°	71.6	71.5	71.6	71.9	72.3	72.0	71.7	30.2	796.5
135°	81.2	81.2	81.6	82.0	82.0	81.6	81.4	31.6	828.1
140°	90.2	90.0	90.1	90.4	90.3	90.0	89.9	31.8	859.9
145°	97.6	97.7	97.9	97.8	97.5	97.4	97.1	30.7	890.6
150°	104.8	104.8	104.8	104.6	104.3	104.3	104.1	28.7	919.3
155°	110.3	110.0	109.8	109.5	109.4	109.4	109.4	25.4	944.7
160°	113.8	113.5	113.3	113.0	113.3	112.9	113.1	21.2	965.9
165°	116.1	116.1	116.1	116.2	116.1	115.8	116.1	16.5	982.4
170°	118.5	118.5	118.4	118.1	117.7	117.9	118.1	11.2	993.6
175°	118.7	118.8	118.8	119.0	119.0	119.1	119.1	5.7	999.3
180°	119.4	119.4	119.4	119.4	119.4	119.4	119.4	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	14.3	15.3	15.0	16.1	17.0	14.1	15.1	14.8	15.9	16.8
	3H	14.9	15.8	15.6	16.6	17.5	14.7	15.6	15.5	16.4	17.4
	4H	15.3	16.2	16.1	17.0	18.0	15.0	15.9	15.8	16.7	17.7
	6H	15.8	16.5	16.6	17.4	18.4	15.4	16.2	16.3	17.0	18.0
	8H	15.9	16.6	16.7	17.4	18.5	15.6	16.3	16.4	17.2	18.2
	12H	16.0	16.7	16.9	17.5	18.6	15.7	16.4	16.6	17.3	18.3
4H	2H	14.4	15.2	15.2	16.0	17.0	14.2	15.1	15.0	15.9	16.9
	3H	15.1	15.9	16.0	16.7	17.7	15.1	15.9	16.0	16.7	17.7
	4H	15.7	16.3	16.5	17.2	18.2	15.7	16.3	16.5	17.1	18.2
	6H	16.3	16.8	17.1	17.7	18.7	16.2	16.8	17.1	17.6	18.7
	8H	16.4	16.9	17.3	17.8	18.9	16.4	16.9	17.3	17.8	18.9
	12H	16.7	17.1	17.6	18.0	19.1	16.6	17.1	17.5	17.9	19.0
8H	4H	15.8	16.3	16.7	17.2	18.3	15.8	16.3	16.7	17.2	18.3
	6H	16.6	17.0	17.4	17.9	19.0	16.5	16.9	17.4	17.8	18.9
	8H	16.9	17.3	17.8	18.2	19.3	16.9	17.3	17.8	18.2	19.3
	12H	17.2	17.6	18.1	18.4	19.6	17.2	17.5	18.1	18.4	19.6
12H	4H	15.9	16.3	16.8	17.2	18.3	15.9	16.3	16.7	17.2	18.3
	6H	16.7	17.0	17.6	17.9	19.0	16.7	17.0	17.6	17.9	19.0
	8H	17.0	17.4	17.9	18.3	19.4	17.1	17.4	18.0	18.3	19.4

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°	5854.5	6231.1	6321.0	6199.5	5657.8	6187.4	6216.5
50°	3913.4	4489.6	5241.9	4486.9	3887.4	4418.4	5128.3
55°	2703.1	3088.1	4376.2	3074.6	2678.3	3007.8	4303.5
60°	1975.5	2393.4	3523.8	2419.7	1969.4	2362.0	3565.4
65°	2085.9	2421.5	2580.0	2481.0	2138.0	2482.1	2440.8
70°	2115.9	2579.5	1634.0	2627.7	2127.7	2632.7	1614.1
75°	2642.8	2377.6	1887.2	2429.4	2681.0	2411.3	1730.2
80°	2827.2	2140.7	2793.5	2078.9	2859.8	2181.9	2980.4
85°	2629.4	2458.7	2075.5	2466.9	2614.7	2518.7	2086.9

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Luminance values in cd/m²

γ 65°

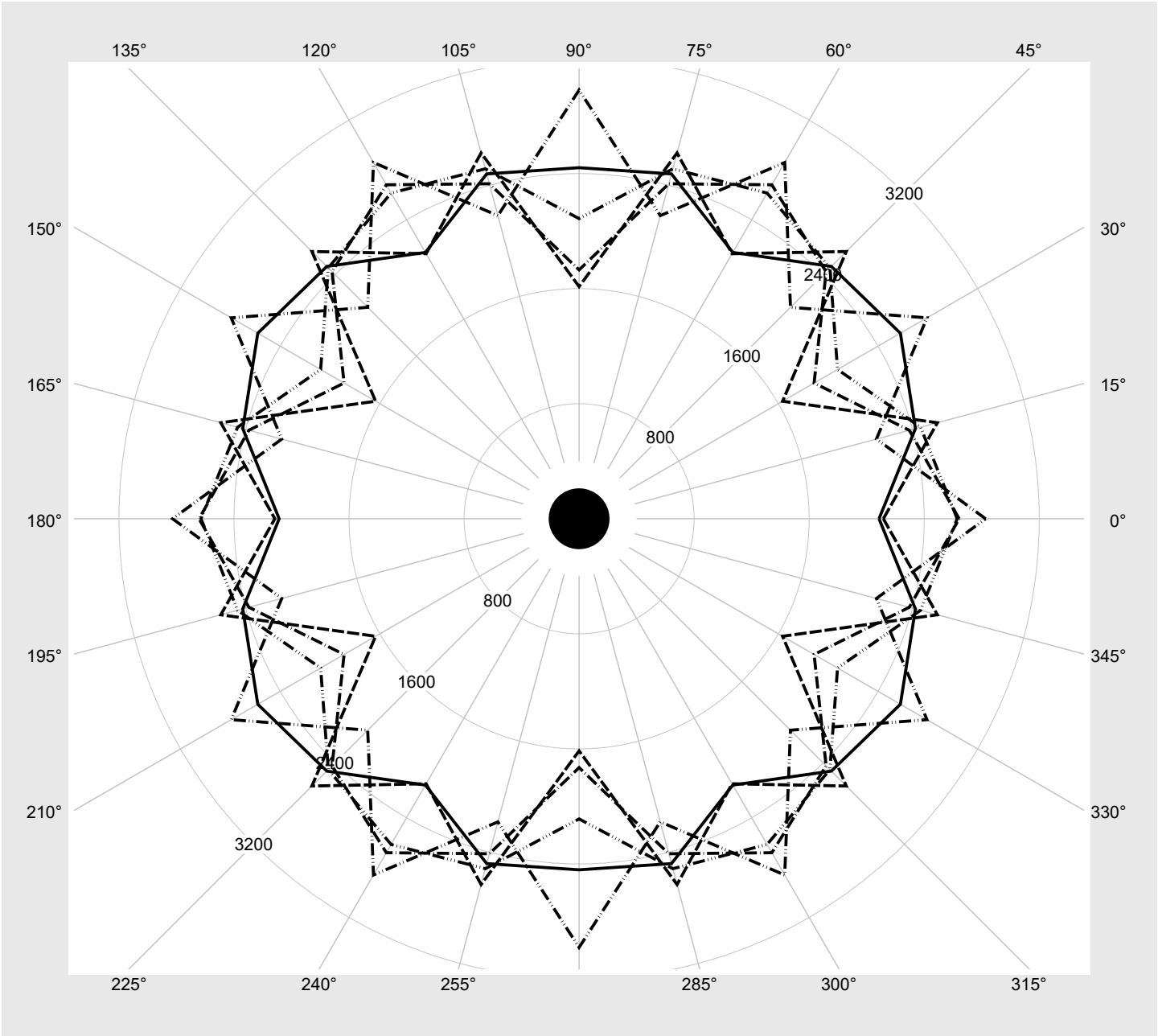
γ 70°

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	15730	88.8
95	241	252	14935	84.4
90	228	250	14139	79.9
85	216	248	13401	75.7
80	203	246	12601	71.2
75	190	243	11796	66.6
70	177	241	10990	62.1
65	165	238	10244	58.1
60	152	235	9431	53.6
55	140	232	8680	49.4
50	127	229	7866	45.1
45	115	225	7107	41.1
40	102	221	6287	36.7
35	90	216	5527	32.6
30	77	210	4701	28.5
25	65	204	3935	24.6
20	53	197	3169	20.5
15	40	186	2335	15.9
10	28	173	1564	11.5
5	16	153	791	7.2
2	8	127	273	4.3