

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DC3MSA
EAN: 4069025808394

LP number
60082_10

serial
documentation
20.05.2026

siteco



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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

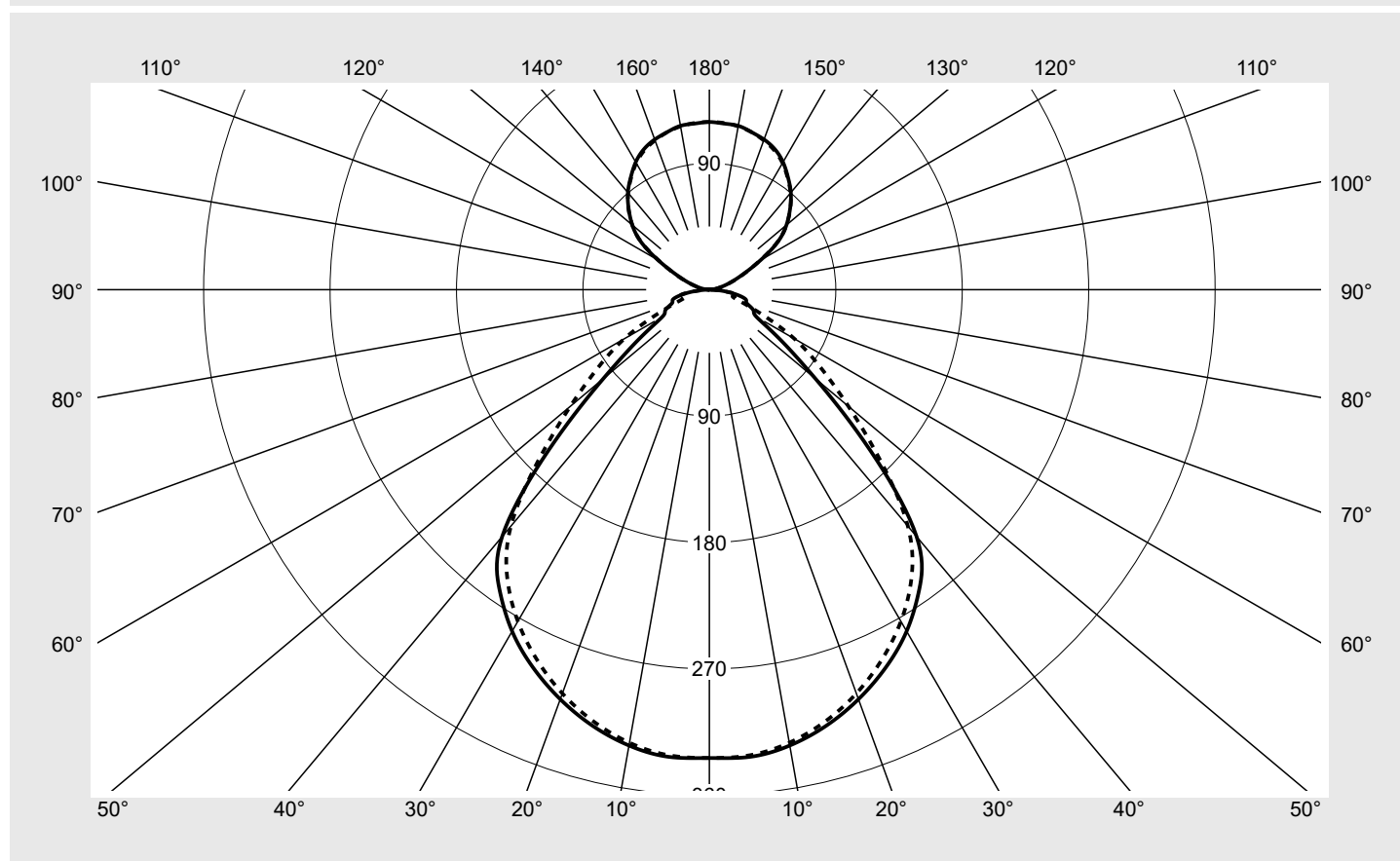
Rated values Net luminous flux = 15020 lm
Power consumption = 88.9 W
Luminous efficacy = 169 lm/W

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	14.1	15.2	14.9	15.9	16.8	13.9	15.0	14.7	15.7	16.7
	3H	14.7	15.6	15.5	16.4	17.4	14.5	15.5	15.3	16.3	17.2
	4H	15.1	16.0	15.9	16.8	17.8	14.9	15.7	15.6	16.5	17.5
	6H	15.6	16.4	16.4	17.2	18.2	15.3	16.1	16.1	16.9	17.9
	8H	15.7	16.4	16.5	17.3	18.3	15.5	16.2	16.3	17.0	18.0
	12H	15.9	16.6	16.7	17.4	18.4	15.6	16.3	16.4	17.1	18.1
4H	2H	14.2	15.1	15.0	15.9	16.9	14.1	14.9	14.9	15.7	16.7
	3H	15.0	15.7	15.8	16.5	17.6	15.0	15.7	15.8	16.5	17.6
	4H	15.5	16.2	16.4	17.0	18.0	15.5	16.1	16.3	17.0	18.0
	6H	16.1	16.7	17.0	17.5	18.6	16.1	16.6	16.9	17.5	18.5
	8H	16.3	16.8	17.1	17.6	18.7	16.3	16.8	17.1	17.6	18.7
	12H	16.5	17.0	17.4	17.8	18.9	16.5	16.9	17.3	17.8	18.9
8H	4H	15.7	16.2	16.5	17.0	18.1	15.6	16.2	16.5	17.0	18.1
	6H	16.4	16.8	17.3	17.7	18.8	16.4	16.8	17.3	17.7	18.8
	8H	16.7	17.1	17.6	18.0	19.1	16.8	17.1	17.7	18.0	19.1
	12H	17.1	17.4	18.0	18.3	19.4	17.1	17.4	18.0	18.3	19.4
12H	4H	15.7	16.2	16.6	17.0	18.1	15.7	16.2	16.6	17.0	18.1
	6H	16.5	16.9	17.4	17.8	18.9	16.5	16.9	17.4	17.7	18.9
	8H	16.9	17.2	17.8	18.1	19.2	16.9	17.2	17.8	18.1	19.2

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 886	
C-planes	0°	15°	30°	45°	60°	75°	90°
	180°	165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
γ	Luminance in cd/m²						
45°	5590.3	5949.8	6035.7	5919.7	5402.4	5908.1	5935.9
50°	3736.7	4287.0	5005.3	4284.4	3712.0	4218.9	4896.8
55°	2581.1	2948.7	4178.7	2935.8	2557.4	2872.1	4109.3
60°	1886.3	2285.3	3364.8	2310.4	1880.6	2255.4	3404.4
65°	1991.8	2312.2	2463.6	2369.1	2041.5	2370.0	2330.6
70°	2020.4	2463.1	1560.3	2509.1	2031.7	2513.9	1541.3
75°	2523.6	2270.3	1802.0	2319.8	2560.0	2302.5	1652.1
80°	2699.6	2044.1	2667.4	1985.0	2730.7	2083.4	2845.9
85°	2510.7	2347.7	1981.8	2355.5	2496.7	2405.0	1992.7

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Luminance values in cd/m²

γ 65°

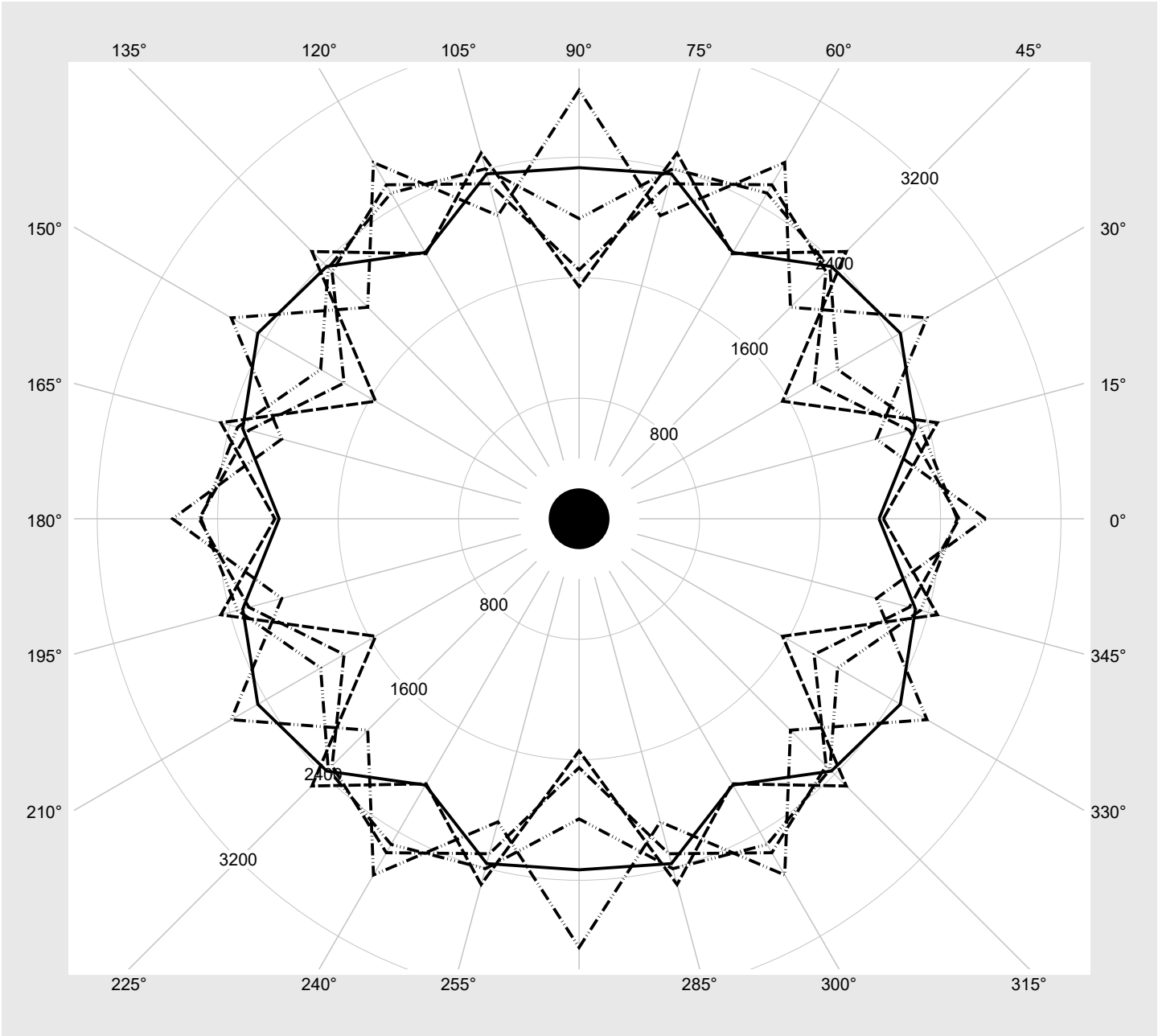
γ 70°

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	15020	88.9
95	241	252	14264	84.4
90	228	250	13507	79.9
85	215	248	12747	75.3
80	203	246	12045	71.2
75	190	243	11279	66.6
70	177	241	10513	62.1
65	164	238	9743	57.7
60	152	235	9029	53.5
55	139	232	8256	49.1
50	126	228	7481	44.8
45	114	225	6760	40.7
40	101	220	5980	36.3
35	89	216	5257	32.3
30	77	210	4534	28.5
25	64	204	3745	24.3
20	52	196	3017	20.1
15	39	185	2224	15.5
10	27	172	1492	11.2
5	15	150	758	6.8
2	8	127	328	4.3