

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DCDMSA
EAN: 4069025808516

LP number
60082_12

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 ≥ 90

Controlgear ECG-DALI

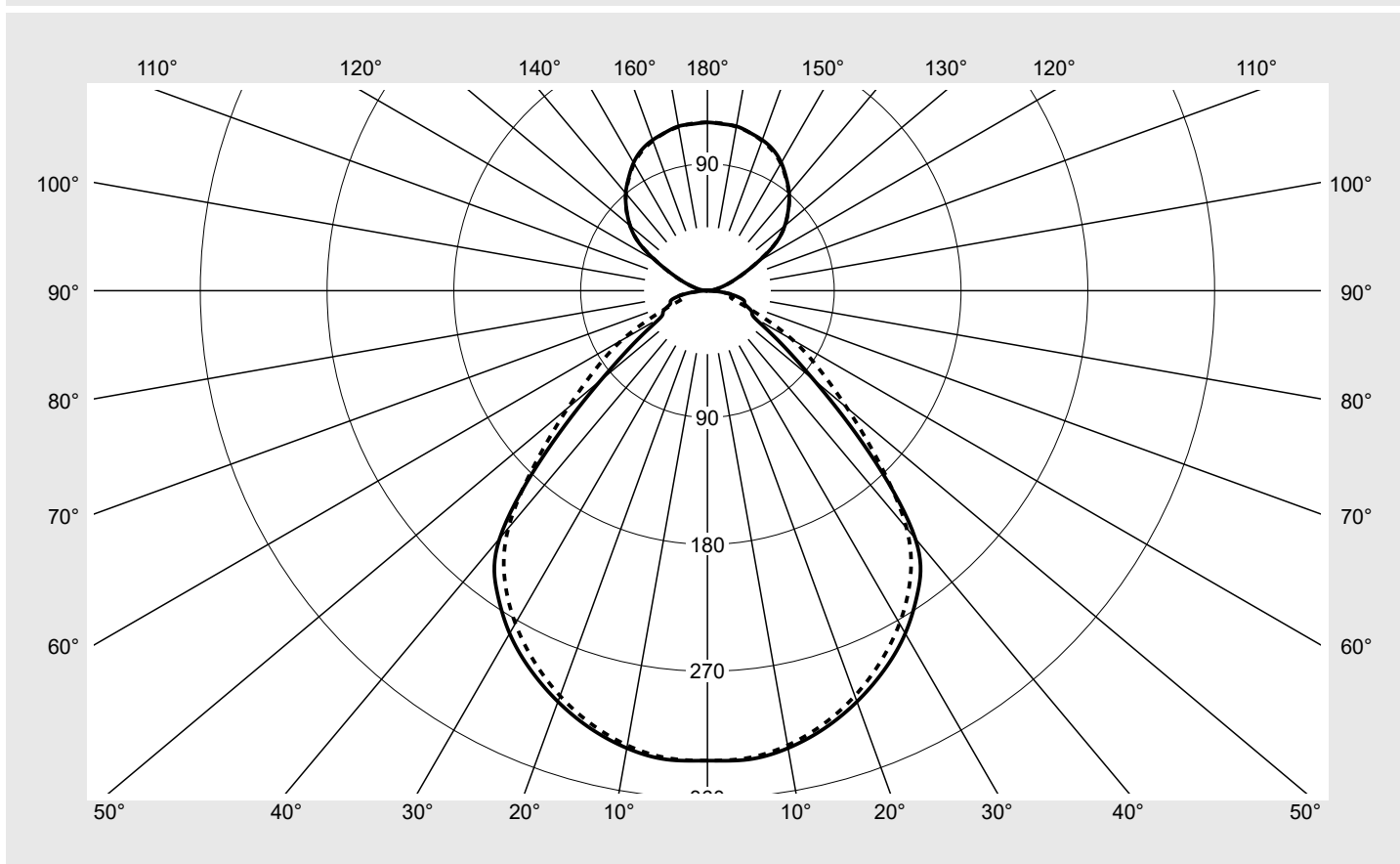
Rated values Net luminous flux = 14540 lm
Power consumption = 90.2 W
Luminous efficacy = 161.2 lm/W

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

Photometric test report

Family Silica® 21 round L	Order number: 51MF33DCDMSA EAN: 4069025808516	LP number 60082_12
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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

Photometric test report

Family Silica® 21 round L	Order number: 51MF33DCDMSA EAN: 4069025808516	LP number 60082_12
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	14.0	15.0	14.7	15.8	16.7	13.8	14.8	14.5	15.6	16.5
	3H	14.6	15.5	15.4	16.3	17.3	14.4	15.4	15.2	16.1	17.1
	4H	15.0	15.9	15.8	16.7	17.7	14.7	15.6	15.5	16.4	17.4
	6H	15.5	16.3	16.3	17.1	18.1	15.2	16.0	16.0	16.8	17.8
	8H	15.6	16.3	16.4	17.2	18.2	15.3	16.1	16.2	16.9	17.9
	12H	15.8	16.4	16.6	17.3	18.3	15.5	16.1	16.3	17.0	18.0
4H	2H	14.1	15.0	14.9	15.8	16.8	14.0	14.8	14.8	15.6	16.6
	3H	14.9	15.6	15.7	16.4	17.4	14.9	15.6	15.7	16.4	17.4
	4H	15.4	16.1	16.2	16.9	17.9	15.4	16.0	16.2	16.9	17.9
	6H	16.0	16.6	16.8	17.4	18.5	15.9	16.5	16.8	17.4	18.4
	8H	16.2	16.7	17.0	17.5	18.6	16.1	16.6	17.0	17.5	18.6
	12H	16.4	16.9	17.3	17.7	18.8	16.3	16.8	17.2	17.7	18.7
8H	4H	15.5	16.1	16.4	16.9	18.0	15.5	16.0	16.4	16.9	18.0
	6H	16.3	16.7	17.2	17.6	18.7	16.3	16.7	17.1	17.6	18.7
	8H	16.6	17.0	17.5	17.9	19.0	16.6	17.0	17.5	17.9	19.0
	12H	17.0	17.3	17.9	18.2	19.3	17.0	17.3	17.9	18.2	19.3
12H	4H	15.6	16.1	16.5	16.9	18.0	15.6	16.0	16.5	16.9	18.0
	6H	16.4	16.8	17.3	17.7	18.8	16.4	16.7	17.3	17.6	18.7
	8H	16.8	17.1	17.7	18.0	19.1	16.8	17.1	17.7	18.0	19.1

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°	5411.6	5759.7	5842.8	5730.5	5229.8	5719.3	5746.2
50°	3617.3	4150.0	4845.3	4147.5	3593.4	4084.1	4740.3
55°	2498.6	2854.5	4045.1	2842.0	2475.7	2780.3	3978.0
60°	1826.0	2212.3	3257.2	2236.6	1820.5	2183.3	3295.6
65°	1928.1	2238.3	2384.9	2293.3	1976.2	2294.3	2256.1
70°	1955.8	2384.3	1510.4	2428.9	1966.8	2433.6	1492.0
75°	2442.9	2197.7	1744.4	2245.6	2478.2	2228.9	1599.3
80°	2613.3	1978.8	2582.2	1921.6	2643.4	2016.8	2754.9
85°	2430.4	2272.7	1918.5	2280.3	2416.9	2328.2	1929.0

Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DCDMSA
EAN: 4069025808516

LP number
60082_12

Luminance values in cd/m²

γ 65°

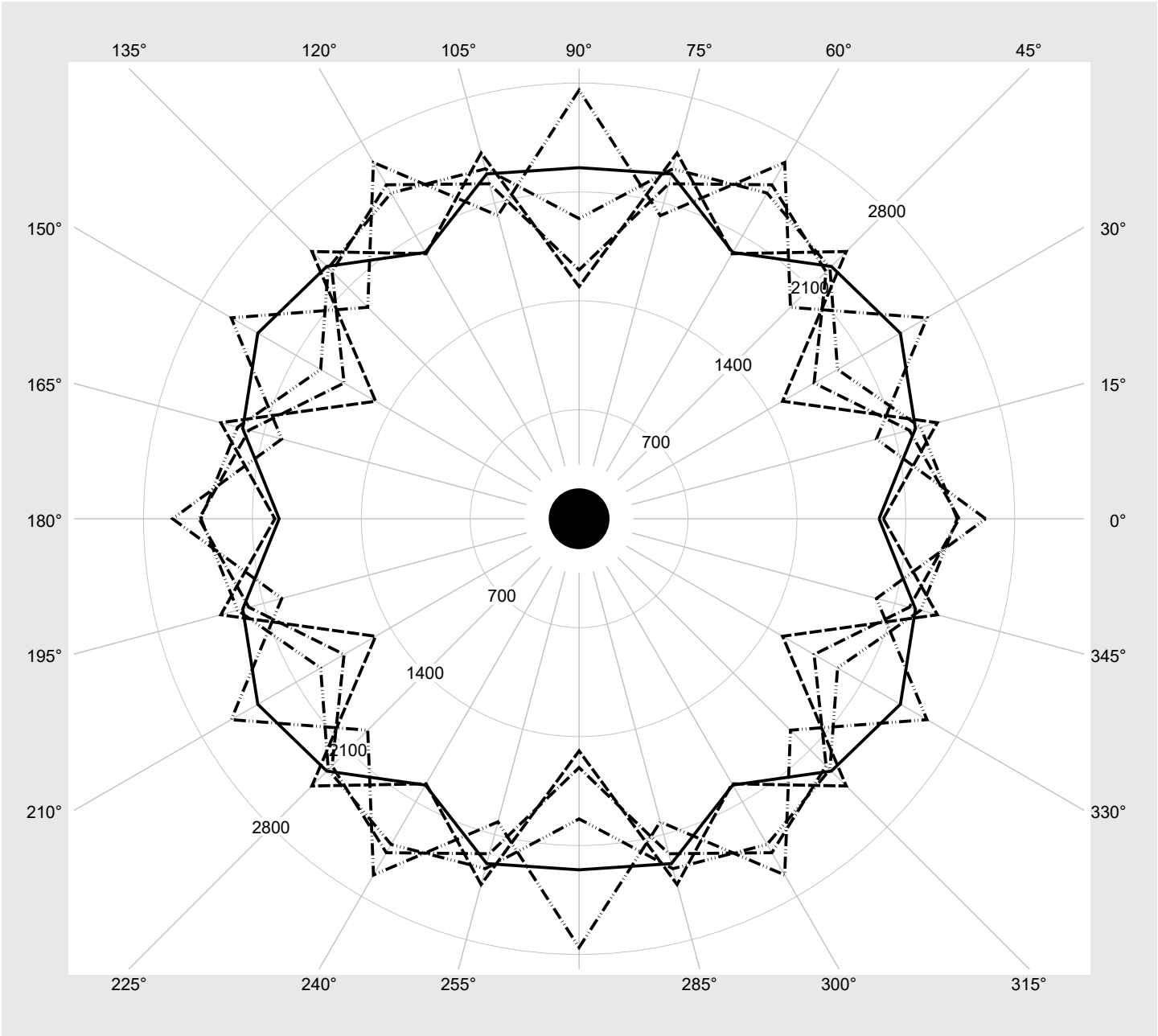
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Silica® 21 round L	Order number: 51MF33DCDMSA EAN: 4069025808516	LP number 60082_12
Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14540	90.2
95	241	252	13820	85.5
90	228	250	13100	81.0
85	215	248	12375	76.3
80	202	246	11649	71.7
75	189	243	10917	67.0
70	176	241	10184	62.4
65	163	238	9447	57.9
60	150	235	8707	53.4
55	138	232	8022	49.2
50	125	228	7278	44.8
45	112	224	6528	40.4
40	100	220	5835	36.2
35	87	215	5081	31.9
30	75	209	4383	28.0
25	62	202	3625	23.7
20	50	194	2921	19.5
15	37	183	2156	14.8
10	25	169	1448	10.4
5	13	145	738	6.1
3	8	127	441	4.3