

Photometric test report

Family
Silica® 21 round L

Order number: 51ME33DC4MSA
EAN: 4069025804716

LP number
60082_9

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

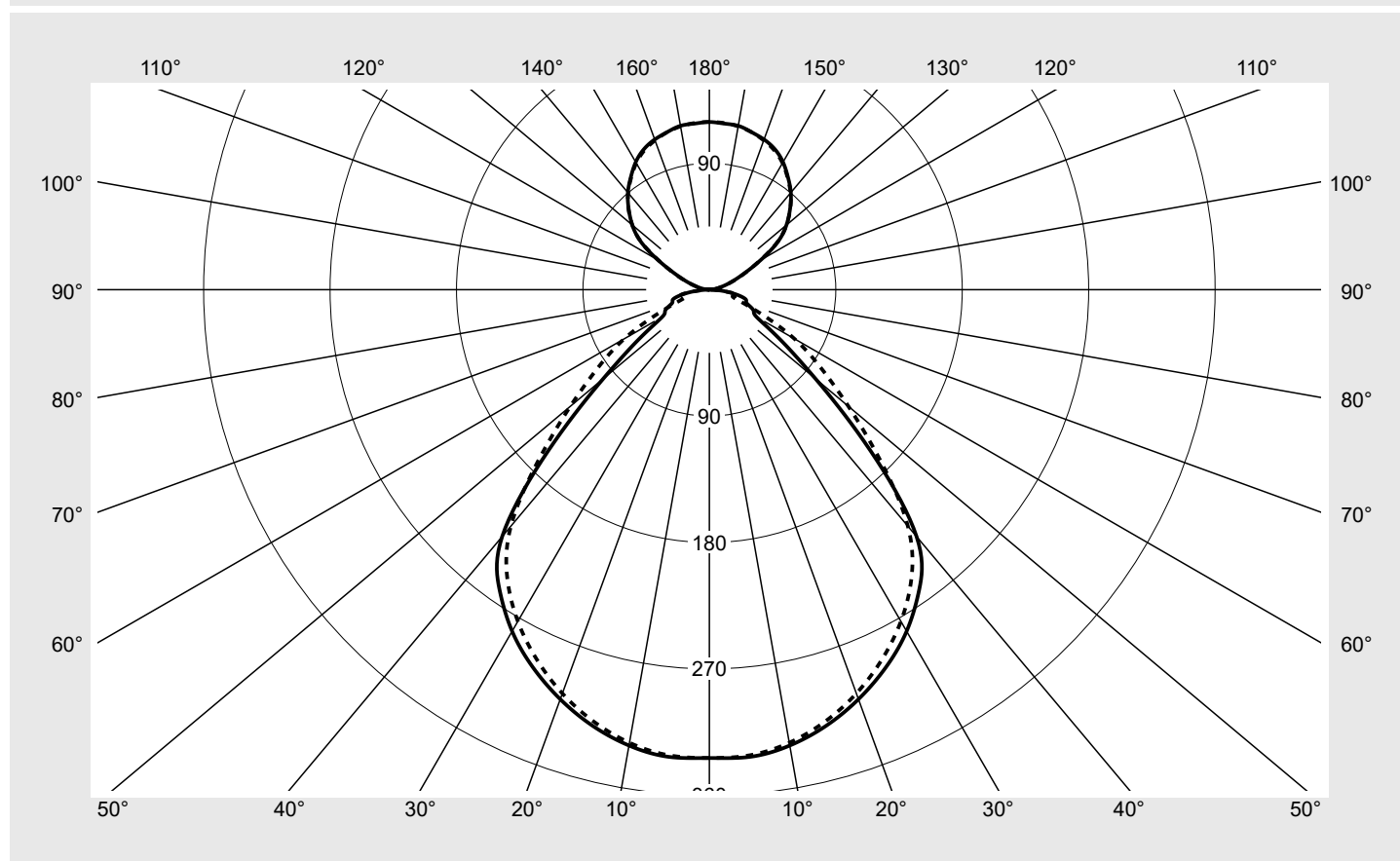
Rated values Net luminous flux = 14330 lm
Power consumption = 88.7 W
Luminous efficacy = 161.6 lm/W

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	13.9	15.0	14.7	15.8	16.7	13.8	14.8	14.5	15.6	16.5
	3H	14.5	15.5	15.3	16.3	17.2	14.4	15.3	15.2	16.1	17.1
	4H	15.0	15.8	15.8	16.6	17.6	14.7	15.5	15.5	16.3	17.3
	6H	15.4	16.2	16.2	17.0	18.0	15.1	15.9	15.9	16.7	17.7
	8H	15.6	16.3	16.4	17.1	18.1	15.3	16.0	16.1	16.8	17.9
	12H	15.7	16.4	16.5	17.2	18.3	15.4	16.1	16.2	16.9	18.0
4H	2H	14.1	14.9	14.9	15.7	16.7	13.9	14.8	14.7	15.6	16.6
	3H	14.8	15.5	15.6	16.4	17.4	14.8	15.5	15.6	16.4	17.4
	4H	15.4	16.0	16.2	16.8	17.9	15.3	16.0	16.2	16.8	17.9
	6H	15.9	16.5	16.8	17.4	18.4	15.9	16.5	16.7	17.3	18.4
	8H	16.1	16.6	17.0	17.5	18.6	16.1	16.6	17.0	17.5	18.5
	12H	16.4	16.8	17.2	17.7	18.8	16.3	16.7	17.2	17.6	18.7
8H	4H	15.5	16.0	16.4	16.9	18.0	15.5	16.0	16.4	16.9	17.9
	6H	16.2	16.6	17.1	17.5	18.6	16.2	16.6	17.1	17.5	18.6
	8H	16.6	17.0	17.5	17.8	19.0	16.6	17.0	17.5	17.9	19.0
	12H	16.9	17.2	17.8	18.1	19.2	16.9	17.2	17.8	18.1	19.2
12H	4H	15.6	16.0	16.4	16.9	18.0	15.5	16.0	16.4	16.9	17.9
	6H	16.4	16.7	17.2	17.6	18.7	16.3	16.7	17.2	17.6	18.7
	8H	16.7	17.0	17.6	17.9	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°	5333.5	5676.5	5758.4	5647.7	5154.2	5636.7	5663.2
50°	3565.1	4090.0	4775.3	4087.6	3541.5	4025.1	4671.9
55°	2462.5	2813.3	3986.7	2801.0	2439.9	2740.1	3920.5
60°	1799.6	2180.4	3210.2	2204.3	1794.2	2151.8	3248.0
65°	1900.3	2206.0	2350.4	2260.2	1947.7	2261.2	2223.5
70°	1927.5	2349.9	1488.6	2393.8	1938.4	2398.4	1470.5
75°	2407.6	2166.0	1719.2	2213.2	2442.4	2196.7	1576.2
80°	2575.5	1950.2	2544.9	1893.8	2605.3	1987.7	2715.1
85°	2395.3	2239.9	1890.8	2247.3	2382.0	2294.5	1901.2

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Luminance values in cd/m²

γ 65°

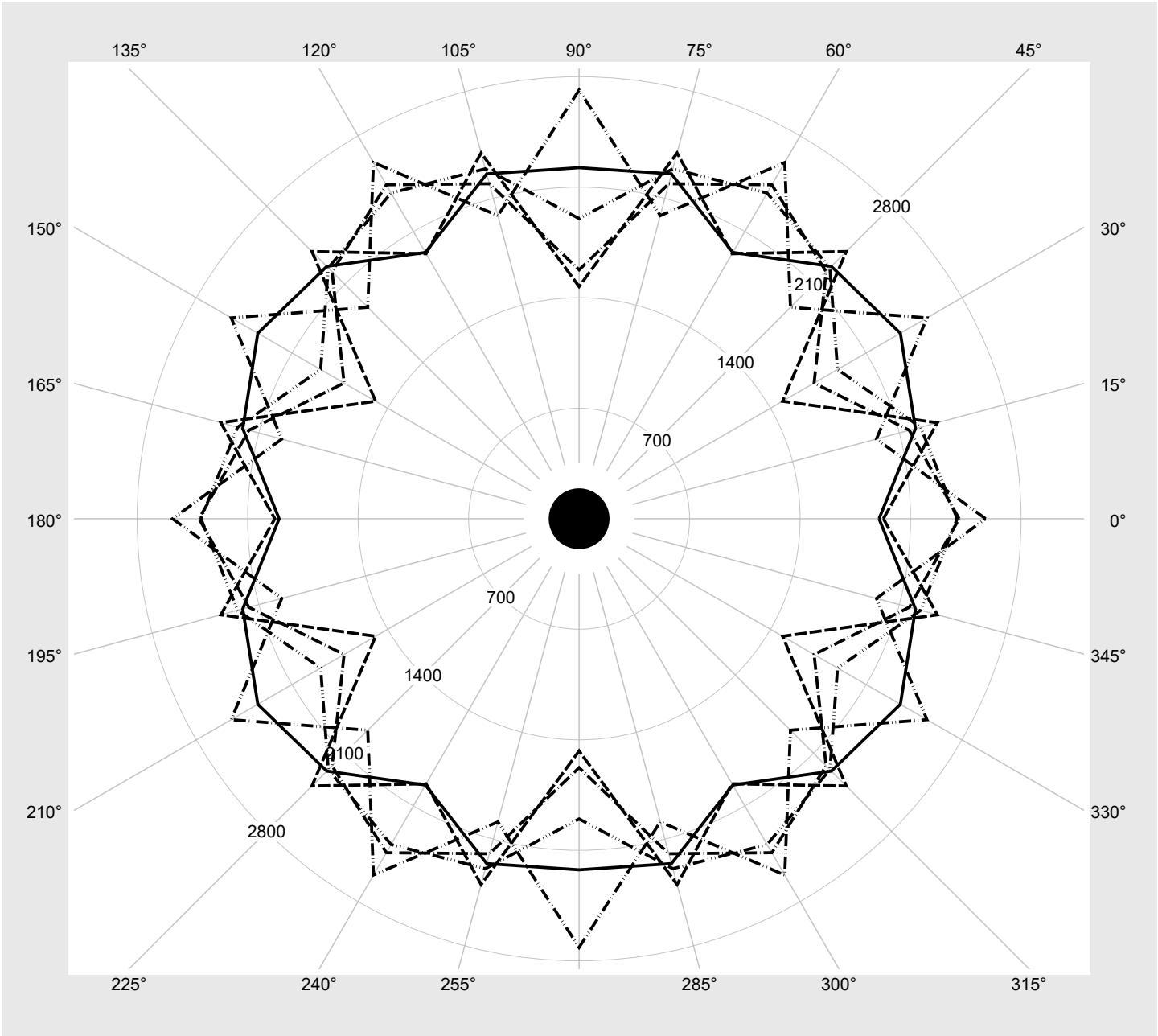
γ 70°

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	14330	88.7
95	241	252	13601	84.3
90	228	250	12871	79.8
85	216	248	12196	75.6
80	203	246	11464	71.2
75	190	243	10729	66.7
70	178	241	10049	62.6
65	165	238	9312	58.2
60	152	235	8573	53.7
55	140	232	7890	49.6
50	127	229	7149	45.3
45	115	225	6463	41.3
40	102	221	5718	36.9
35	90	216	5032	32.9
30	77	210	4286	28.8
25	65	204	3595	24.9
20	52	196	2847	20.4
15	40	186	2155	16.2
10	28	173	1462	11.8
5	15	150	710	7.0
2	8	127	304	4.5