

Photometric test report

Family
Silica® 21 round L

Order number: 51ME23DC4MBA
EAN: 4069025804457

LP number
60072_33

serial
documentation
20.05.2026

siteco



Version

surface-mounted luminaire, housing, black,
microprismatic optics, direct wide distribution
with ceiling illumination, UGR≤19

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 13100 lm

Power consumption = 82.6 W

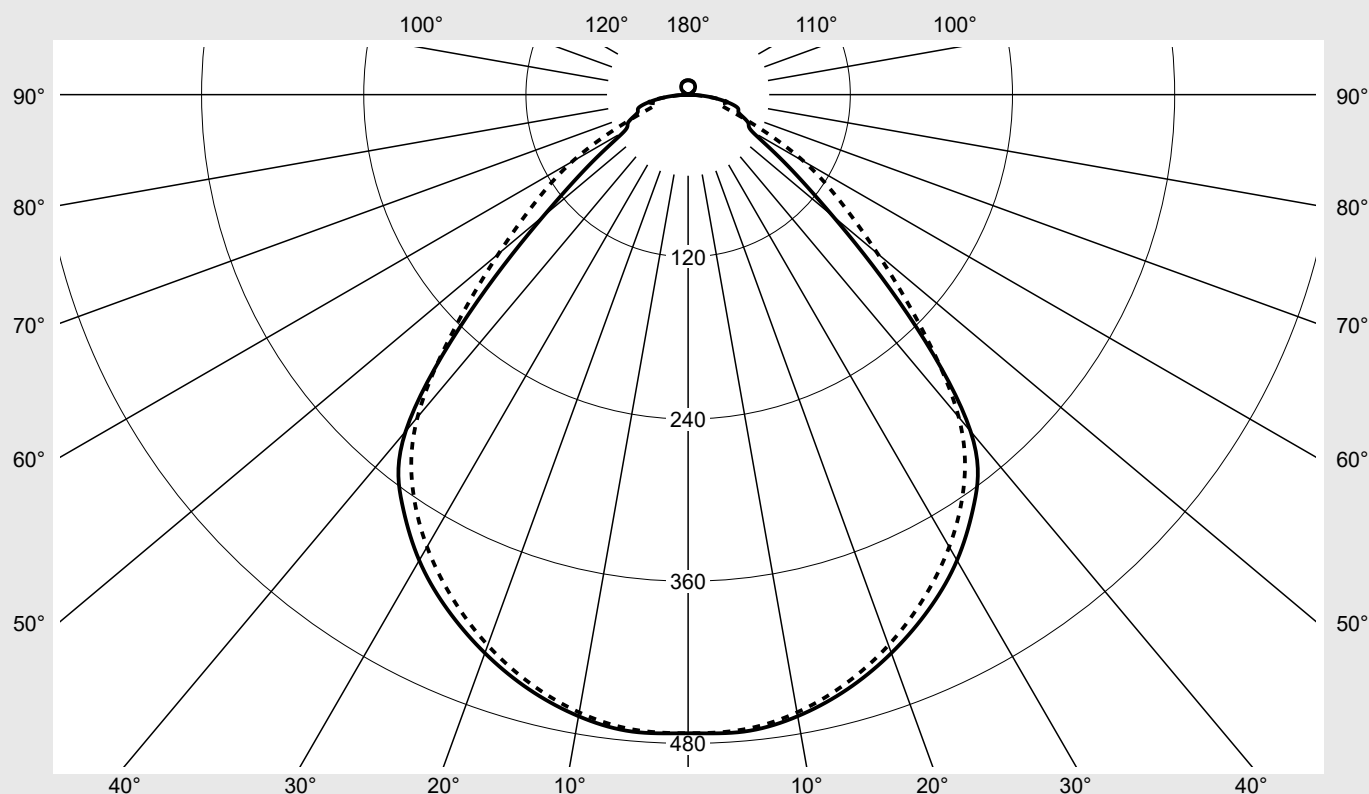
Luminous efficacy = 158.6 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 473 cd/klm



Classifications

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

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 97.2%
 ϕ_o 2.8%

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°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	2.8	2.8
5°	473.1	470.6	467.9	469.6	471.8	471.5	471.4	22.5	25.3
10°	467.0	464.4	461.3	462.6	464.5	464.1	464.1	44.1	69.4
15°	455.4	452.9	449.6	450.4	451.7	451.2	451.0	64.1	133.5
20°	439.7	437.1	433.3	433.5	434.4	433.7	433.5	81.5	215.0
25°	420.7	417.7	413.1	412.9	413.8	412.5	411.7	96.0	311.0
30°	397.9	394.4	388.9	388.6	389.9	387.9	386.4	107.0	418.0
35°	369.1	365.7	359.1	359.5	360.4	358.3	355.3	113.4	531.4
40°	325.1	325.2	319.3	318.9	313.7	315.1	311.5	112.2	643.6
45°	229.9	244.7	248.2	243.4	222.2	243.0	244.1	92.9	736.5
50°	139.7	160.3	187.1	160.2	138.8	157.7	183.1	67.6	804.1
55°	86.1	98.4	139.4	97.9	85.3	95.8	137.1	47.0	851.1
60°	54.9	66.5	97.8	67.2	54.7	65.6	99.0	33.9	885.0
65°	49.0	56.8	60.6	58.2	50.2	58.3	57.3	27.9	913.0
70°	40.2	49.0	31.0	49.9	40.4	50.0	30.7	22.0	934.9
75°	38.0	34.2	27.1	34.9	38.5	34.7	24.9	17.7	952.6
80°	27.3	20.6	26.9	20.0	27.6	21.0	28.7	13.0	965.6
85°	12.7	11.9	10.0	11.9	12.7	12.2	10.1	6.4	972.0
90°	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	972.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	972.2
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	972.5
105°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	973.0
110°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	973.8
115°	2.4	2.4	2.5	2.5	2.5	2.5	2.5	1.2	975.0
120°	3.8	3.7	3.7	3.7	3.7	3.7	3.7	1.8	976.8
125°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	2.4	979.2
130°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	2.7	981.9
135°	7.2	7.2	7.3	7.3	7.3	7.3	7.3	2.8	984.7
140°	8.0	8.0	8.0	8.1	8.1	8.0	8.0	2.8	987.5
145°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	2.7	990.2
150°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	2.6	992.8
155°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	2.3	995.1
160°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	1.9	997.0
165°	10.4	10.4	10.3	10.4	10.4	10.3	10.4	1.5	998.4
170°	10.6	10.6	10.6	10.5	10.5	10.5	10.5	1.0	999.4
175°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	0.5	999.9
180°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	0.1	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	16.9	18.4	17.3	18.7	19.1	16.7	18.2	17.1	18.5	18.9
	3H	17.6	19.0	18.0	19.3	19.7	17.5	18.8	17.9	19.2	19.5
	4H	18.1	19.4	18.5	19.7	20.1	17.8	19.1	18.2	19.4	19.8
	6H	18.6	19.7	19.0	20.1	20.5	18.3	19.4	18.7	19.8	20.2
	8H	18.8	19.9	19.2	20.3	20.7	18.6	19.6	19.0	20.0	20.4
	12H	19.0	20.0	19.4	20.4	20.8	18.7	19.7	19.1	20.1	20.5
4H	2H	17.2	18.4	17.6	18.8	19.2	17.0	18.3	17.4	18.7	19.0
	3H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5	19.9
	4H	18.6	19.5	19.0	19.9	20.4	18.6	19.5	19.0	19.9	20.4
	6H	19.2	20.0	19.6	20.4	20.9	19.1	20.0	19.6	20.4	20.9
	8H	19.5	20.2	19.9	20.6	21.1	19.4	20.2	19.9	20.6	21.1
	12H	19.7	20.4	20.2	20.8	21.3	19.6	20.3	20.1	20.7	21.2
8H	4H	18.8	19.6	19.3	20.0	20.5	18.8	19.6	19.3	20.0	20.5
	6H	19.6	20.2	20.1	20.7	21.2	19.6	20.2	20.1	20.7	21.2
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	12H	20.3	20.7	20.8	21.2	21.8	20.3	20.7	20.8	21.2	21.8
12H	4H	18.9	19.5	19.4	20.0	20.5	18.9	19.5	19.4	20.0	20.5
	6H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
	8H	20.1	20.5	20.6	21.0	21.6	20.1	20.6	20.6	21.1	21.6

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°
		Luminance in cd/m²					
γ							
45°	6908.3	7352.6	7458.7	7315.4	6676.2	7301.1	7335.5
50°	4617.8	5297.6	6185.4	5294.5	4587.2	5213.6	6051.3
55°	3189.6	3643.9	5163.9	3628.1	3160.3	3549.3	5078.2
60°	2331.0	2824.1	4158.1	2855.2	2323.9	2787.1	4207.1
65°	2461.4	2857.3	3044.4	2927.6	2522.8	2928.8	2880.1
70°	2496.8	3043.8	1928.2	3100.7	2510.8	3106.7	1904.7
75°	3118.6	2805.6	2226.9	2866.8	3163.5	2845.3	2041.7
80°	3336.1	2526.0	3296.5	2453.1	3374.6	2574.5	3517.0
85°	3102.5	2901.1	2449.1	2910.6	3085.2	2972.3	2462.8

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Luminance values in cd/m²

γ 65°

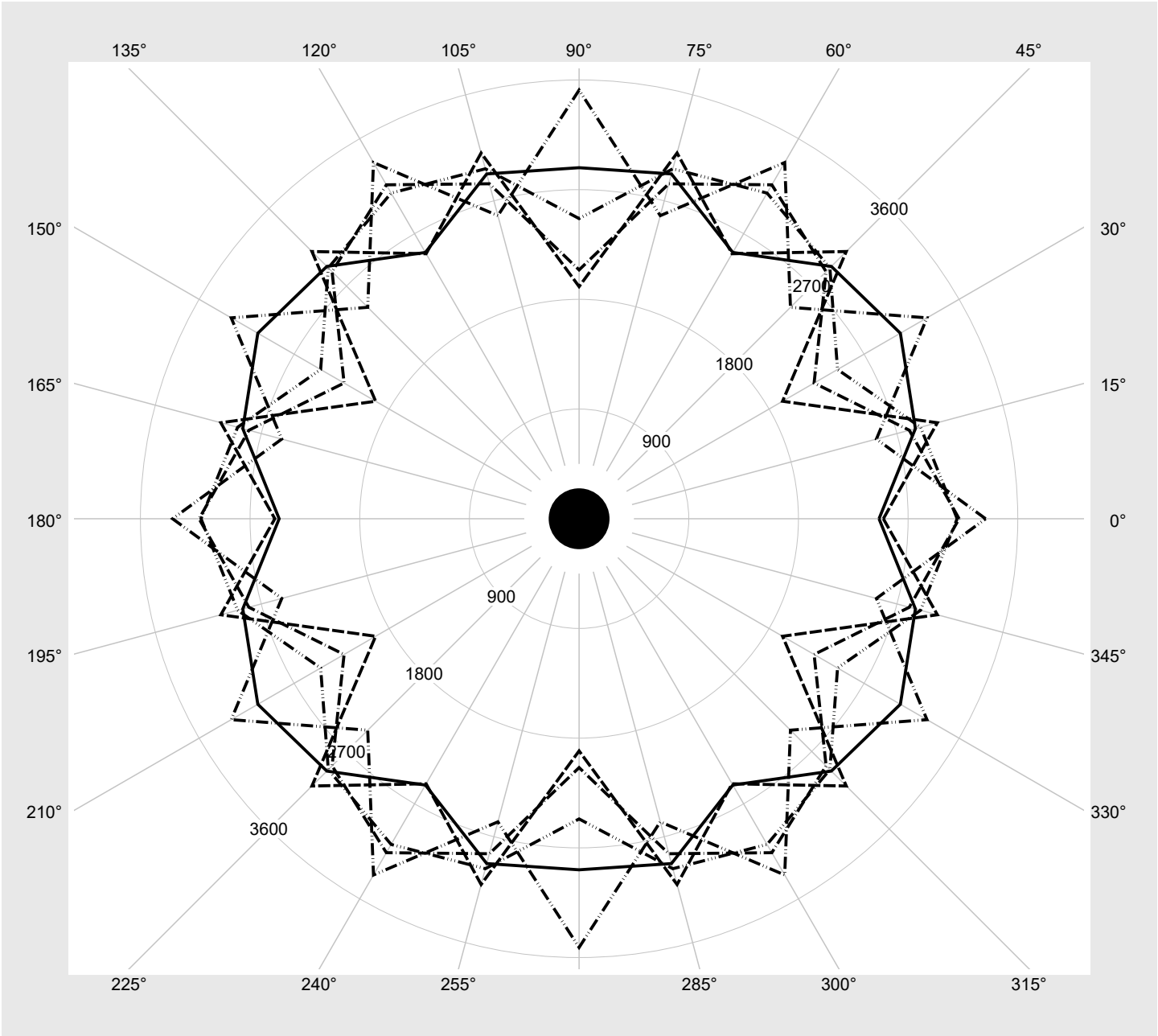
γ 70°

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	13100	82.6
95	241	252	12440	78.4
90	228	250	11777	74.3
85	215	248	11114	70.1
80	203	246	10499	66.2
75	190	243	9831	62.1
70	177	241	9161	58.1
65	164	238	8490	53.9
60	152	235	7868	50.1
55	139	232	7193	46.0
50	127	229	6570	42.2
45	114	225	5893	38.1
40	101	220	5215	34.1
35	89	216	4587	30.3
30	76	210	3906	26.3
25	64	204	3275	22.6
20	52	196	2642	19.0
15	39	185	1956	15.0
10	27	172	1322	11.5
5	14	148	632	7.4
0	3	91	49	3.7