

Photometric test report

Family
Silica® 21 round L



Order number: 51ME33DC4MWA
EAN: 4069025804730

Version

Lamps

Controlgear

Rated values

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

LED 4000 K | CRI ≥ 80

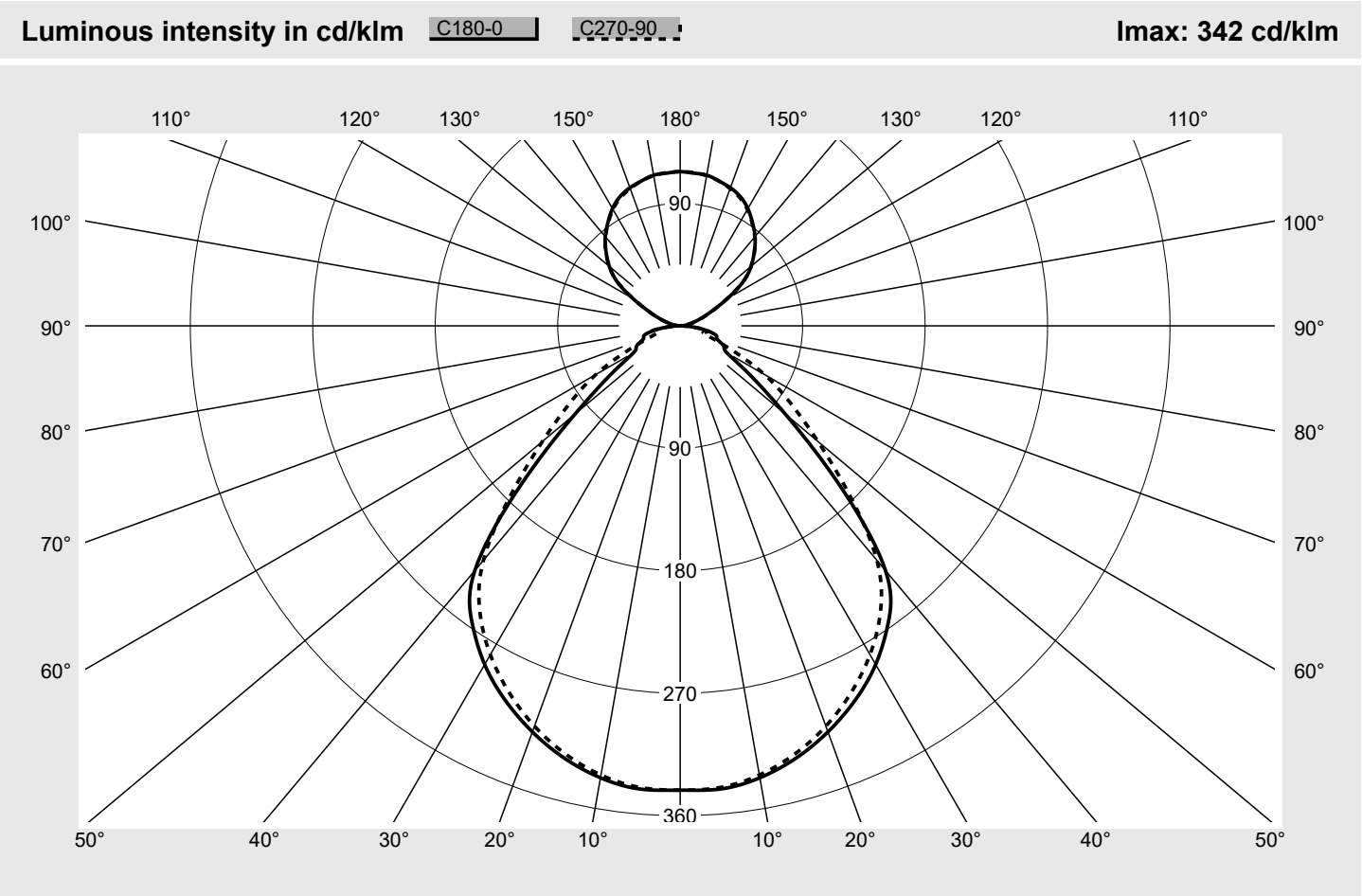
ECG-DALI

Net luminous flux = 14590 lm
Power consumption = 88.7 W
Luminous efficacy = 164.5 lm/W

LP number
60080_9

serial
documentation
20.05.2026

siteco



Classifications		Luminaire light output ratios	
DIN 5040	B 5 3	η_{LB}	100.0%
CIE	N1=64 N2=89 N3=97	ϕ_u	70.2%
	N4=70 N5=100	ϕ_o	29.8%

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°	341.2	341.2	341.2	341.2	341.2	341.2	341.2	2.0	2.0
5°	341.7	339.9	337.9	339.1	340.7	340.5	340.5	16.2	18.3
10°	337.3	335.4	333.2	334.1	335.5	335.2	335.2	31.9	50.2
15°	328.9	327.1	324.7	325.3	326.3	325.9	325.7	46.3	96.4
20°	317.5	315.7	313.0	313.1	313.8	313.2	313.1	58.9	155.3
25°	303.8	301.7	298.3	298.2	298.8	297.9	297.4	69.3	224.6
30°	287.4	284.8	280.9	280.7	281.6	280.1	279.0	77.3	301.9
35°	266.6	264.1	259.3	259.6	260.3	258.7	256.6	81.9	383.8
40°	234.8	234.9	230.6	230.3	226.5	227.6	225.0	81.0	464.8
45°	166.0	176.7	179.3	175.8	160.5	175.5	176.3	67.1	531.9
50°	100.9	115.7	135.1	115.7	100.2	113.9	132.2	48.8	580.7
55°	62.2	71.0	100.7	70.7	61.6	69.2	99.0	34.0	614.7
60°	39.6	48.0	70.7	48.5	39.5	47.4	71.5	24.5	639.2
65°	35.4	41.0	43.7	42.1	36.2	42.1	41.4	20.2	659.4
70°	29.0	35.4	22.4	36.0	29.2	36.1	22.1	15.9	675.2
75°	27.4	24.7	19.6	25.2	27.8	25.0	18.0	12.8	688.0
80°	19.7	14.9	19.5	14.5	19.9	15.2	20.8	9.4	697.4
85°	9.2	8.6	7.3	8.6	9.1	8.8	7.3	4.6	702.0
90°	0.6	0.8	0.5	0.7	0.5	0.6	0.3	0.3	702.3
95°	2.6	2.5	2.5	2.5	2.5	2.5	2.5	1.4	703.7
100°	5.8	5.7	5.7	5.8	5.8	5.8	5.8	3.1	706.8
105°	10.2	10.1	10.3	10.4	10.5	10.4	10.4	5.5	712.3
110°	16.8	16.7	17.0	17.1	17.2	17.1	17.1	8.8	721.0
115°	25.9	25.9	26.1	26.2	26.4	26.5	26.4	13.0	734.0
120°	40.0	39.9	39.7	39.7	39.7	39.6	39.6	18.9	752.9
125°	56.5	56.4	56.4	56.3	56.6	56.6	56.3	25.3	778.3
130°	68.0	67.8	68.0	68.3	68.6	68.3	68.0	28.6	806.9
135°	77.1	77.1	77.4	77.9	77.8	77.5	77.3	30.0	836.9
140°	85.6	85.5	85.5	85.8	85.7	85.5	85.3	30.1	867.1
145°	92.6	92.7	92.9	92.8	92.5	92.4	92.2	29.1	896.2
150°	99.5	99.5	99.5	99.3	99.0	99.0	98.8	27.2	923.4
155°	104.7	104.4	104.2	103.9	103.9	103.9	103.9	24.1	947.5
160°	108.0	107.7	107.5	107.3	107.5	107.2	107.3	20.1	967.6
165°	110.2	110.2	110.1	110.3	110.2	109.9	110.2	15.6	983.3
170°	112.4	112.4	112.4	112.1	111.7	111.9	112.1	10.7	993.9
175°	112.7	112.7	112.8	112.9	112.9	113.0	113.1	5.4	999.3
180°	113.3	113.3	113.3	113.3	113.3	113.3	113.3	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	14.2	15.3	14.9	16.0	16.9	14.0	15.1	14.7	15.8	16.7
	3H	14.8	15.7	15.6	16.5	17.5	14.6	15.6	15.4	16.4	17.3
	4H	15.2	16.1	16.0	16.9	17.9	15.0	15.8	15.7	16.6	17.6
	6H	15.7	16.5	16.5	17.3	18.3	15.4	16.2	16.2	17.0	18.0
	8H	15.8	16.6	16.6	17.4	18.4	15.6	16.3	16.4	17.1	18.1
	12H	16.0	16.7	16.8	17.5	18.5	15.7	16.4	16.5	17.2	18.2
4H	2H	14.3	15.2	15.1	16.0	16.9	14.2	15.1	15.0	15.8	16.8
	3H	15.1	15.8	15.9	16.6	17.6	15.1	15.8	15.9	16.6	17.6
	4H	15.6	16.3	16.4	17.1	18.1	15.6	16.3	16.4	17.1	18.1
	6H	16.2	16.8	17.0	17.6	18.6	16.2	16.7	17.0	17.6	18.6
	8H	16.4	16.9	17.2	17.8	18.8	16.4	16.9	17.2	17.7	18.8
	12H	16.6	17.1	17.5	17.9	19.0	16.6	17.0	17.4	17.9	18.9
8H	4H	15.8	16.3	16.6	17.1	18.2	15.8	16.3	16.6	17.1	18.2
	6H	16.5	16.9	17.4	17.8	18.9	16.5	16.9	17.4	17.8	18.9
	8H	16.9	17.2	17.7	18.1	19.2	16.9	17.3	17.8	18.1	19.2
	12H	17.2	17.5	18.1	18.4	19.5	17.2	17.5	18.1	18.4	19.5
12H	4H	15.8	16.3	16.7	17.1	18.2	15.8	16.3	16.7	17.1	18.2
	6H	16.6	17.0	17.5	17.9	18.9	16.6	17.0	17.5	17.8	18.9
	8H	17.0	17.3	17.9	18.2	19.3	17.0	17.3	17.9	18.2	19.3

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°	5556.9	5914.3	5999.6	5884.3	5370.1	5872.8	5900.5
50°	3714.4	4261.3	4975.4	4258.8	3689.8	4193.7	4867.6
55°	2565.7	2931.1	4153.7	2918.3	2542.1	2854.9	4084.7
60°	1875.0	2271.7	3344.7	2296.6	1869.3	2241.9	3384.1
65°	1979.9	2298.4	2448.8	2354.9	2029.3	2355.9	2316.7
70°	2008.3	2448.3	1551.0	2494.1	2019.5	2498.9	1532.1
75°	2508.5	2256.7	1791.3	2305.9	2544.7	2288.7	1642.2
80°	2683.5	2031.9	2651.6	1973.2	2714.4	2070.9	2828.9
85°	2495.5	2333.7	1970.1	2341.3	2481.7	2390.7	1980.7

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Luminance values in cd/m²

γ 65°

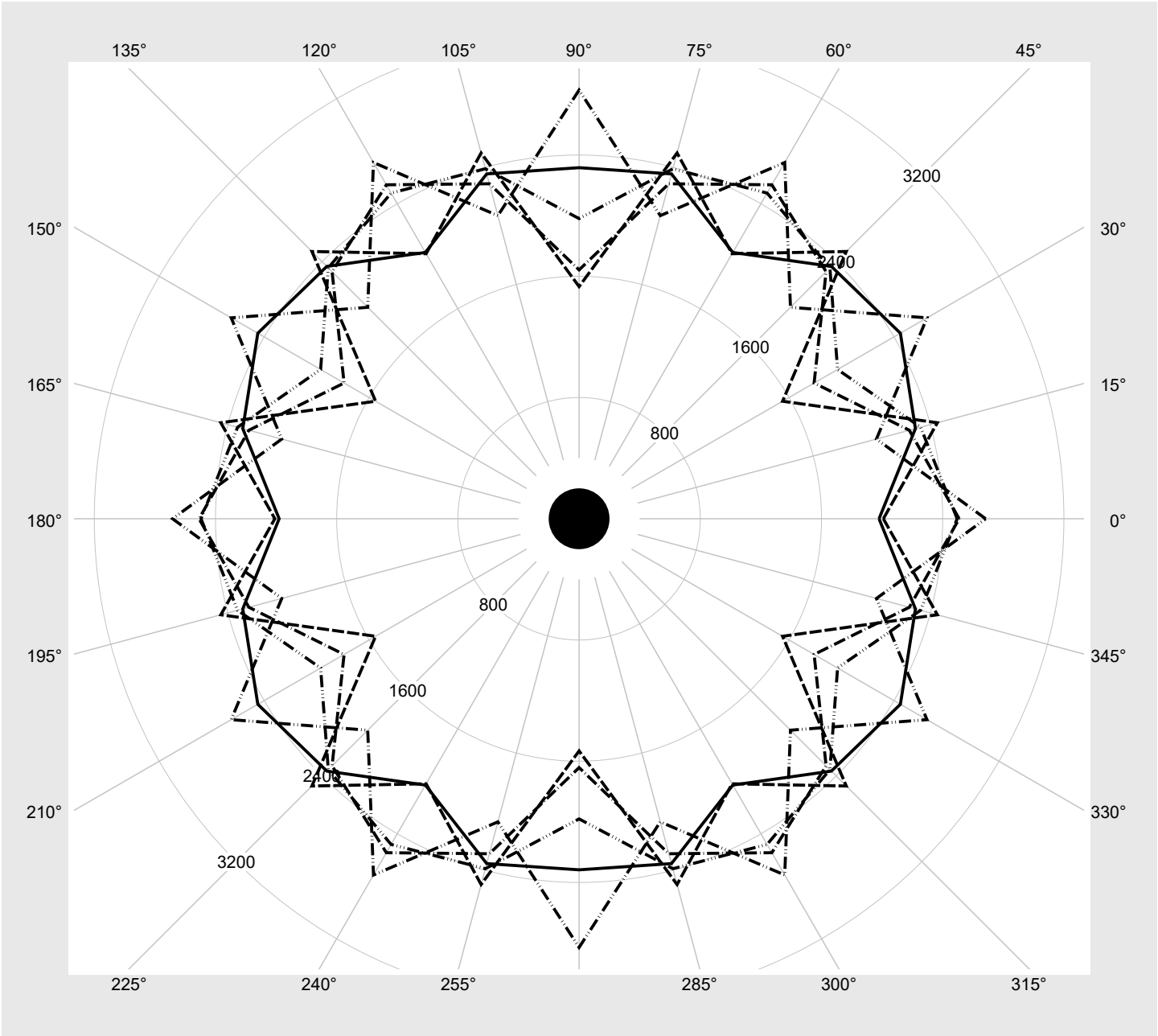
γ 70°

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	14590	88.7
95	241	252	13848	84.3
90	228	250	13105	79.8
85	216	248	12417	75.6
80	203	246	11672	71.2
75	190	243	10924	66.7
70	178	241	10231	62.5
65	165	238	9481	58.2
60	152	235	8729	53.7
55	140	232	8033	49.6
50	127	229	7279	45.3
45	115	225	6580	41.3
40	102	221	5822	36.9
35	90	216	5123	32.9
30	77	210	4363	28.8
25	65	204	3661	24.9
20	52	196	2898	20.4
15	40	186	2194	16.2
10	28	173	1489	11.8
5	15	150	723	7.0
2	8	127	310	4.5