

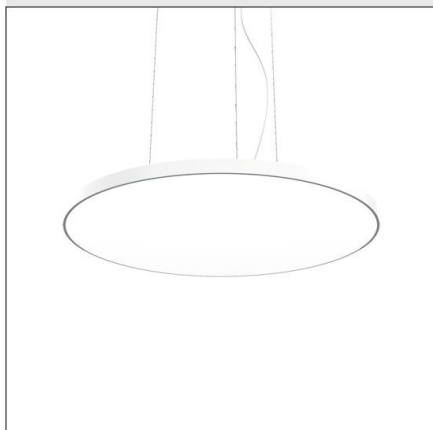
Photometric test report

Family
Silica® 21 round L

Order number: 51MF33DCEMWA
EAN: 4069025808592

LP number
60080_13

serial
documentation
20.05.2026



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

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 14940 lm
Power consumption = 90.2 W
Luminous efficacy = 165.6 lm/W

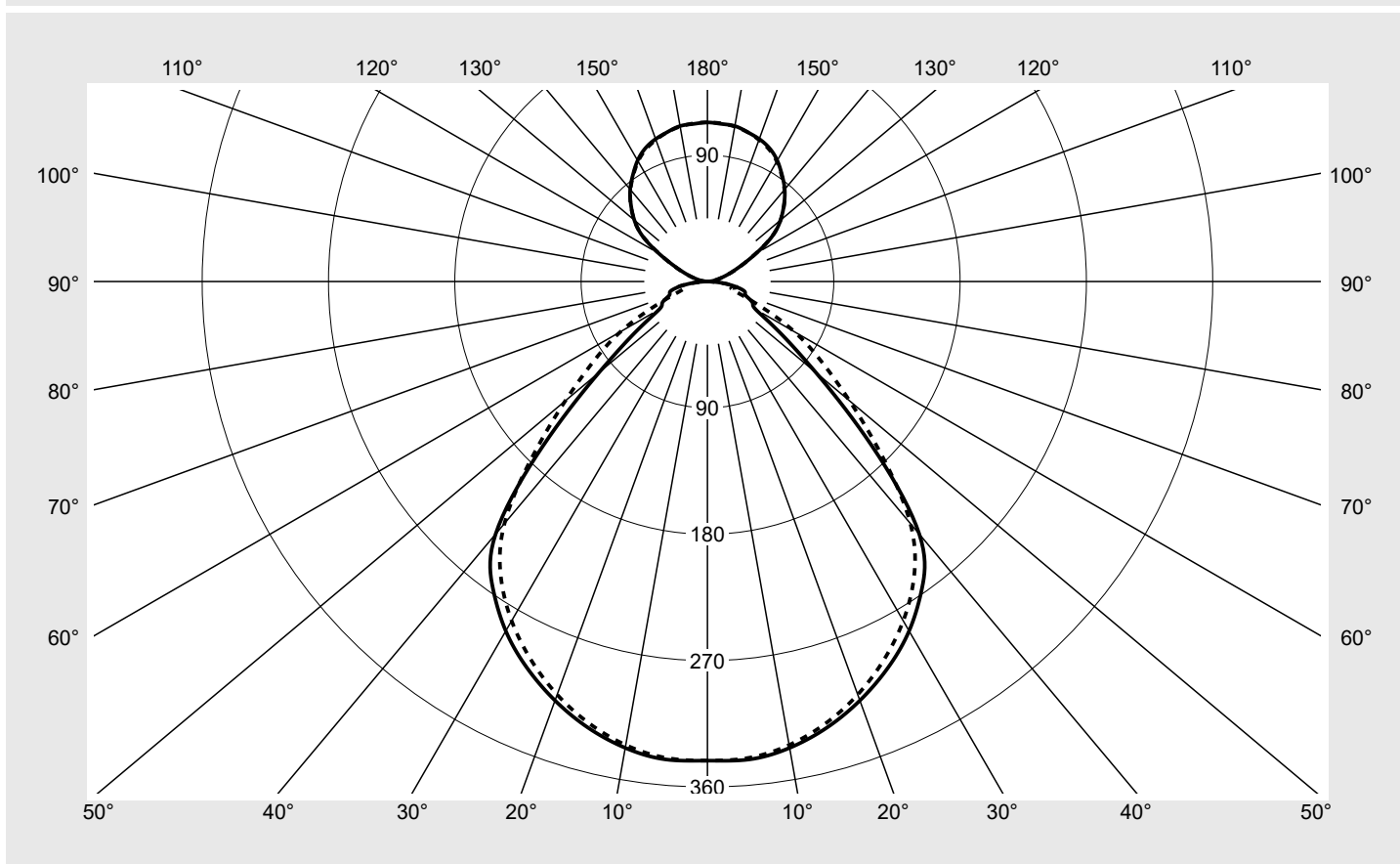
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 342 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=70 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 70.2%
 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	14.3	15.3	15.0	16.1	17.0	14.1	15.2	14.8	15.9	16.8
	3H	14.9	15.8	15.6	16.6	17.5	14.7	15.7	15.5	16.4	17.4
	4H	15.3	16.2	16.1	17.0	17.9	15.0	15.9	15.8	16.7	17.7
	6H	15.8	16.6	16.6	17.4	18.3	15.5	16.3	16.3	17.1	18.0
	8H	15.9	16.6	16.7	17.5	18.5	15.6	16.4	16.5	17.2	18.2
	12H	16.1	16.8	16.9	17.6	18.6	15.8	16.5	16.6	17.3	18.3
4H	2H	14.4	15.3	15.2	16.1	17.0	14.3	15.1	15.0	15.9	16.9
	3H	15.2	15.9	16.0	16.7	17.7	15.2	15.9	16.0	16.7	17.7
	4H	15.7	16.4	16.5	17.2	18.2	15.7	16.3	16.5	17.2	18.2
	6H	16.3	16.9	17.1	17.7	18.7	16.2	16.8	17.1	17.7	18.7
	8H	16.5	17.0	17.3	17.8	18.9	16.4	17.0	17.3	17.8	18.9
	12H	16.7	17.2	17.6	18.0	19.1	16.6	17.1	17.5	18.0	19.0
8H	4H	15.9	16.4	16.7	17.2	18.3	15.8	16.4	16.7	17.2	18.3
	6H	16.6	17.0	17.5	17.9	19.0	16.6	17.0	17.4	17.9	18.9
	8H	16.9	17.3	17.8	18.2	19.3	17.0	17.3	17.8	18.2	19.3
	12H	17.3	17.6	18.2	18.5	19.6	17.3	17.6	18.1	18.5	19.5
12H	4H	15.9	16.4	16.8	17.2	18.3	15.9	16.3	16.8	17.2	18.3
	6H	16.7	17.1	17.6	17.9	19.0	16.7	17.1	17.6	17.9	19.0
	8H	17.1	17.4	18.0	18.3	19.4	17.1	17.4	18.0	18.3	19.4

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°	5690.2	6056.2	6143.6	6025.5	5499.0	6013.7	6042.0
50°	3803.5	4363.5	5094.7	4360.9	3778.3	4294.3	4984.4
55°	2627.2	3001.4	4253.4	2988.3	2603.1	2923.4	4182.7
60°	1920.0	2326.2	3424.9	2351.7	1914.2	2295.7	3465.3
65°	2027.4	2353.5	2507.6	2411.4	2077.9	2412.4	2372.3
70°	2056.5	2507.0	1588.2	2553.9	2068.0	2558.8	1568.8
75°	2568.6	2310.9	1834.2	2361.3	2605.7	2343.6	1681.6
80°	2747.8	2080.7	2715.2	2020.5	2779.5	2120.6	2896.7
85°	2555.4	2389.7	2017.4	2397.5	2541.2	2448.1	2028.3

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Luminance values in cd/m²

γ 65°

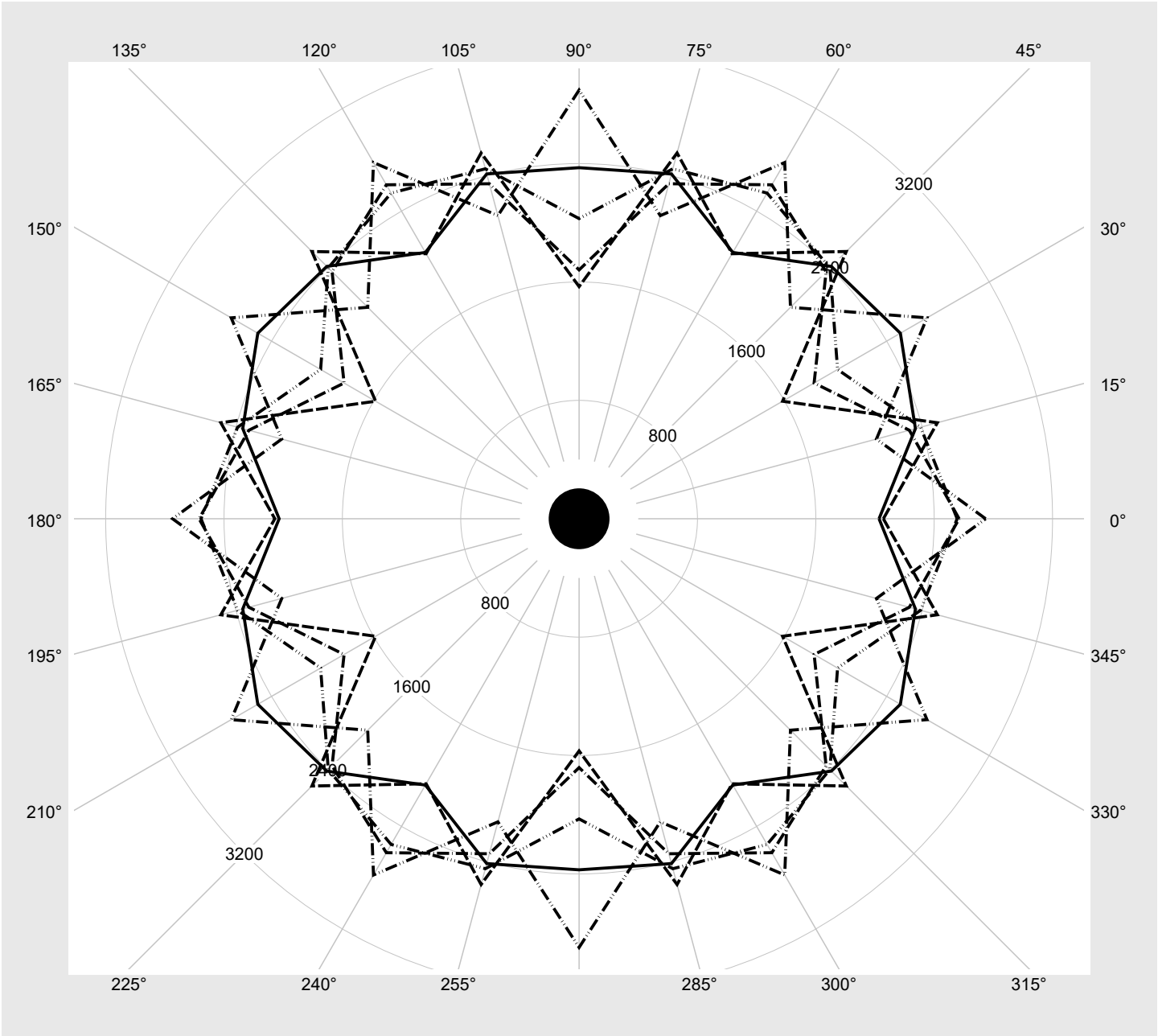
γ 70°

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	14940	90.2
95	241	252	14201	85.5
90	228	250	13461	81.0
85	215	248	12717	76.3
80	202	246	11971	71.7
75	189	243	11220	67.0
70	176	241	10466	62.4
65	163	238	9709	57.9
60	150	235	8949	53.4
55	138	232	8245	49.2
50	125	228	7480	44.8
45	112	224	6710	40.4
40	100	220	5997	36.2
35	87	215	5223	31.9
30	75	209	4506	28.0
25	62	202	3726	23.7
20	50	194	3003	19.5
15	37	183	2217	14.8
10	25	169	1488	10.4
5	13	145	759	6.1
3	8	127	454	4.3