

Photometric test report

Family
Silica® 21 round M



Order number: 51MF33DBDMWA
EAN: 4069025808295

Version

Lamps

Controlgear

Rated values

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

LED 3000 K | CRI ≥ 90

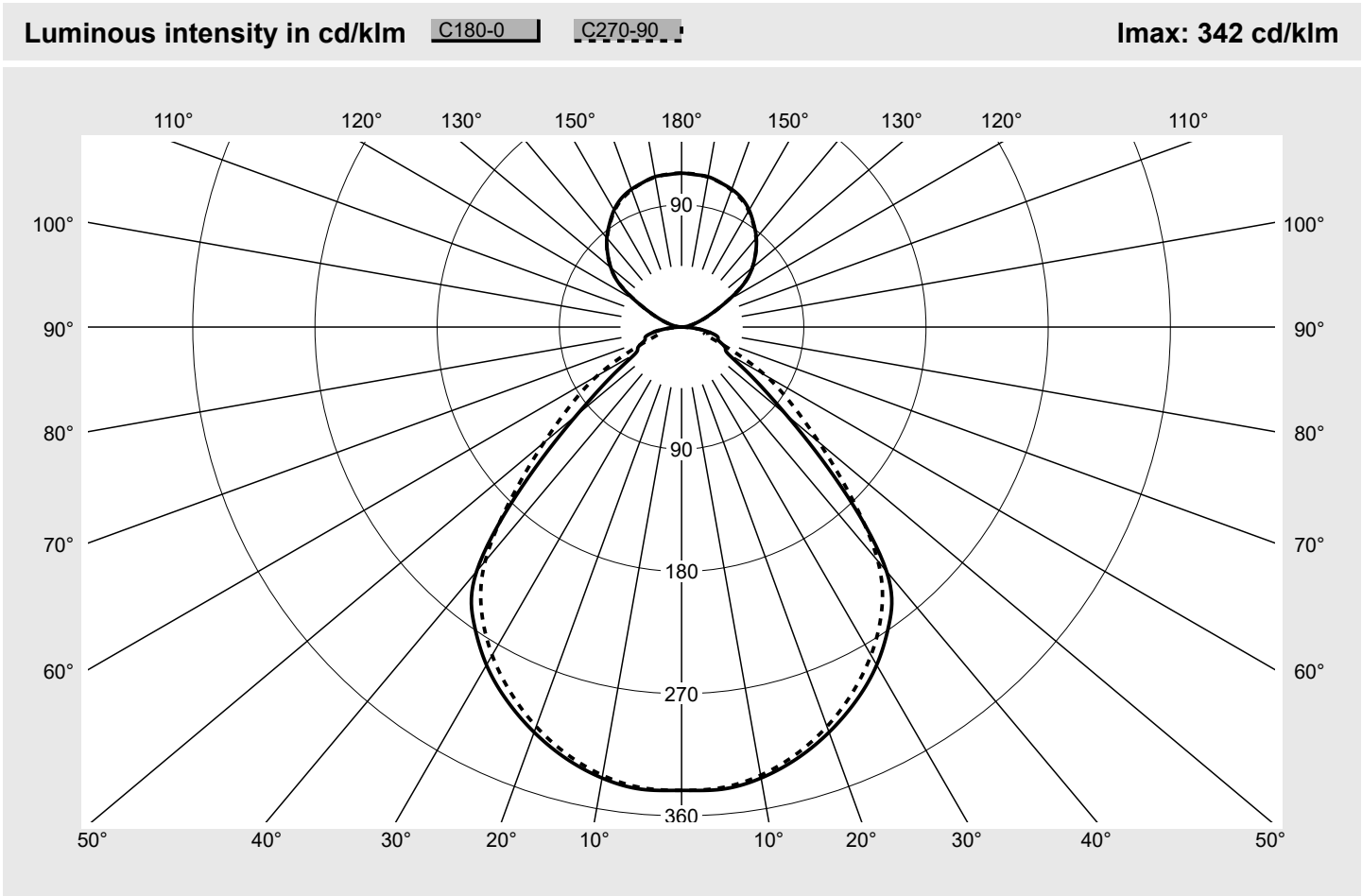
ECG-DALI

Net luminous flux = 7920 lm
Power consumption = 48.7 W
Luminous efficacy = 162.6 lm/W

LP number
60080_6

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	15.0	16.0	15.7	16.8	17.7	14.8	15.8	15.5	16.6	17.5
	3H	15.5	16.5	16.3	17.3	18.2	15.4	16.3	16.2	17.1	18.1
	4H	16.0	16.9	16.8	17.7	18.6	15.7	16.6	16.5	17.4	18.3
	6H	16.4	17.2	17.2	18.0	19.0	16.1	16.9	16.9	17.7	18.7
	8H	16.6	17.3	17.4	18.1	19.1	16.3	17.0	17.1	17.9	18.9
	12H	16.7	17.4	17.5	18.2	19.2	16.4	17.1	17.3	17.9	18.9
4H	2H	15.1	15.9	15.8	16.7	17.7	14.9	15.8	15.7	16.6	17.6
	3H	15.8	16.6	16.6	17.4	18.4	15.8	16.6	16.6	17.4	18.4
	4H	16.4	17.0	17.2	17.9	18.9	16.3	17.0	17.2	17.8	18.8
	6H	17.0	17.5	17.8	18.4	19.4	16.9	17.5	17.7	18.3	19.3
	8H	17.1	17.6	18.0	18.5	19.6	17.1	17.6	18.0	18.5	19.5
	12H	17.4	17.8	18.2	18.7	19.8	17.3	17.8	18.2	18.6	19.7
8H	4H	16.5	17.0	17.4	17.9	18.9	16.5	17.0	17.4	17.9	18.9
	6H	17.3	17.7	18.1	18.5	19.6	17.2	17.7	18.1	18.5	19.6
	8H	17.6	18.0	18.5	18.9	19.9	17.6	18.0	18.5	18.9	20.0
	12H	17.9	18.3	18.8	19.1	20.2	17.9	18.2	18.8	19.1	20.2
12H	4H	16.6	17.0	17.4	17.9	19.0	16.6	17.0	17.4	17.9	18.9
	6H	17.4	17.7	18.3	18.6	19.7	17.4	17.7	18.2	18.6	19.7
	8H	17.7	18.1	18.6	18.9	20.0	17.8	18.1	18.7	19.0	20.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 586	
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°	6895.7	7339.1	7445.0	7301.9	6663.9	7287.7	7322.0
50°	4609.3	5287.9	6174.0	5284.8	4578.7	5204.1	6040.3
55°	3183.8	3637.3	5154.4	3621.4	3154.5	3542.7	5068.8
60°	2326.8	2819.0	4150.4	2849.9	2319.7	2782.0	4199.4
65°	2456.9	2852.1	3038.8	2922.3	2518.1	2923.4	2874.8
70°	2492.2	3038.1	1924.6	3095.0	2506.1	3100.9	1901.2
75°	3112.8	2800.4	2222.8	2861.5	3157.7	2840.0	2037.9
80°	3329.9	2521.4	3290.4	2448.5	3368.3	2569.8	3510.4
85°	3096.8	2895.9	2444.8	2905.4	3079.6	2966.7	2457.9

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Luminance values in cd/m²

γ 65°

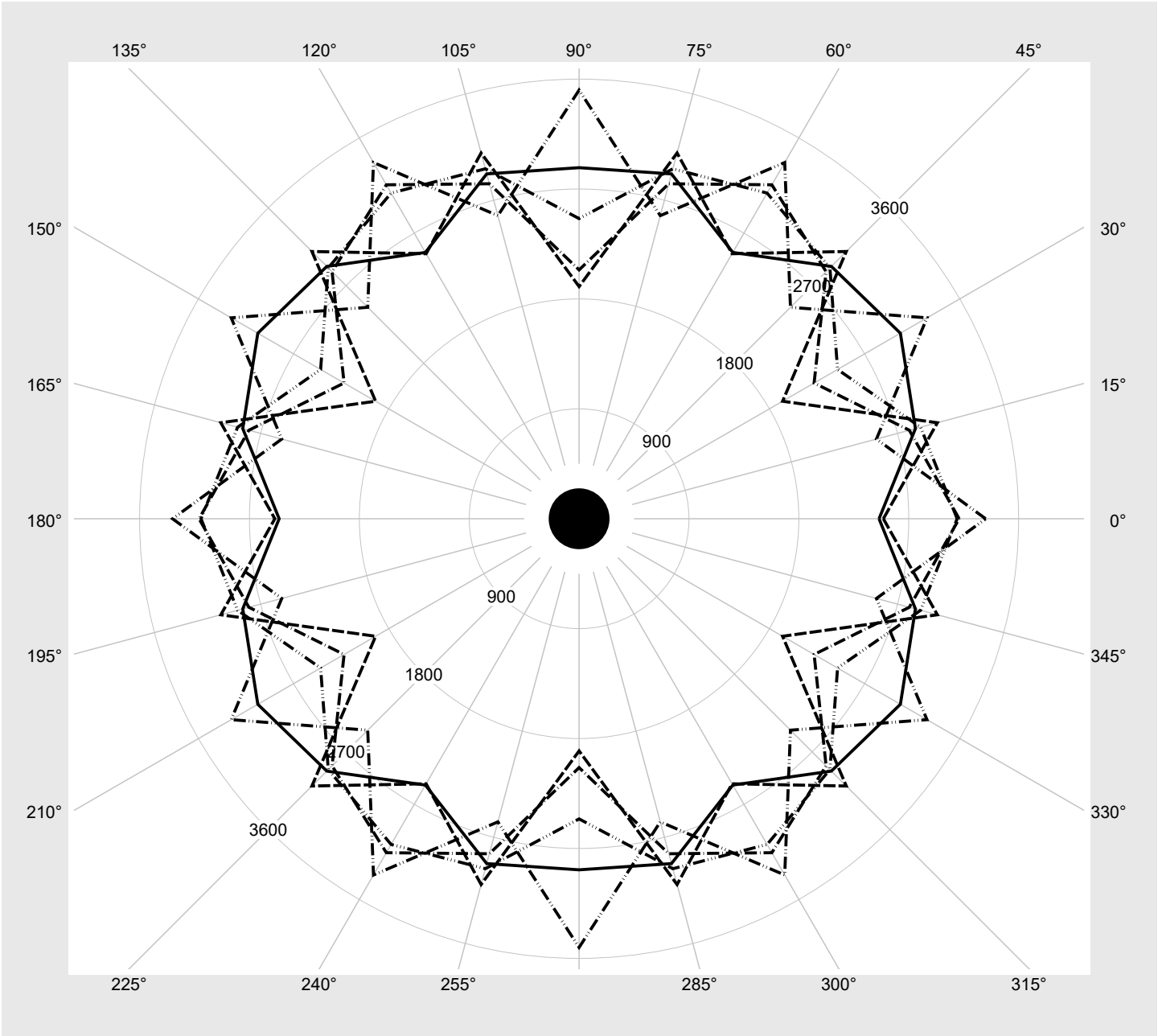
γ 70°

γ 75°

γ 80°

γ 85°

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Family Silica® 21 round M	Order number: 51MF33DBDMWA EAN: 4069025808295	LP number 60080_6
Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	7920	48.7
95	241	252	7529	46.2
90	228	250	7136	43.7
85	215	248	6742	41.2
80	202	246	6347	38.8
75	189	243	5951	36.5
70	176	241	5552	34.1
65	163	238	5151	31.7
60	150	235	4748	29.3
55	137	231	4344	26.8
50	125	228	3970	24.6
45	112	224	3562	22.0
40	99	219	3153	19.6
35	87	215	2774	17.4
30	74	209	2362	14.9
25	62	202	1980	12.7
20	50	194	1596	10.6
15	37	183	1179	8.1
10	25	169	793	5.3
5	13	145	405	2.3
3	7	122	211	1.0