

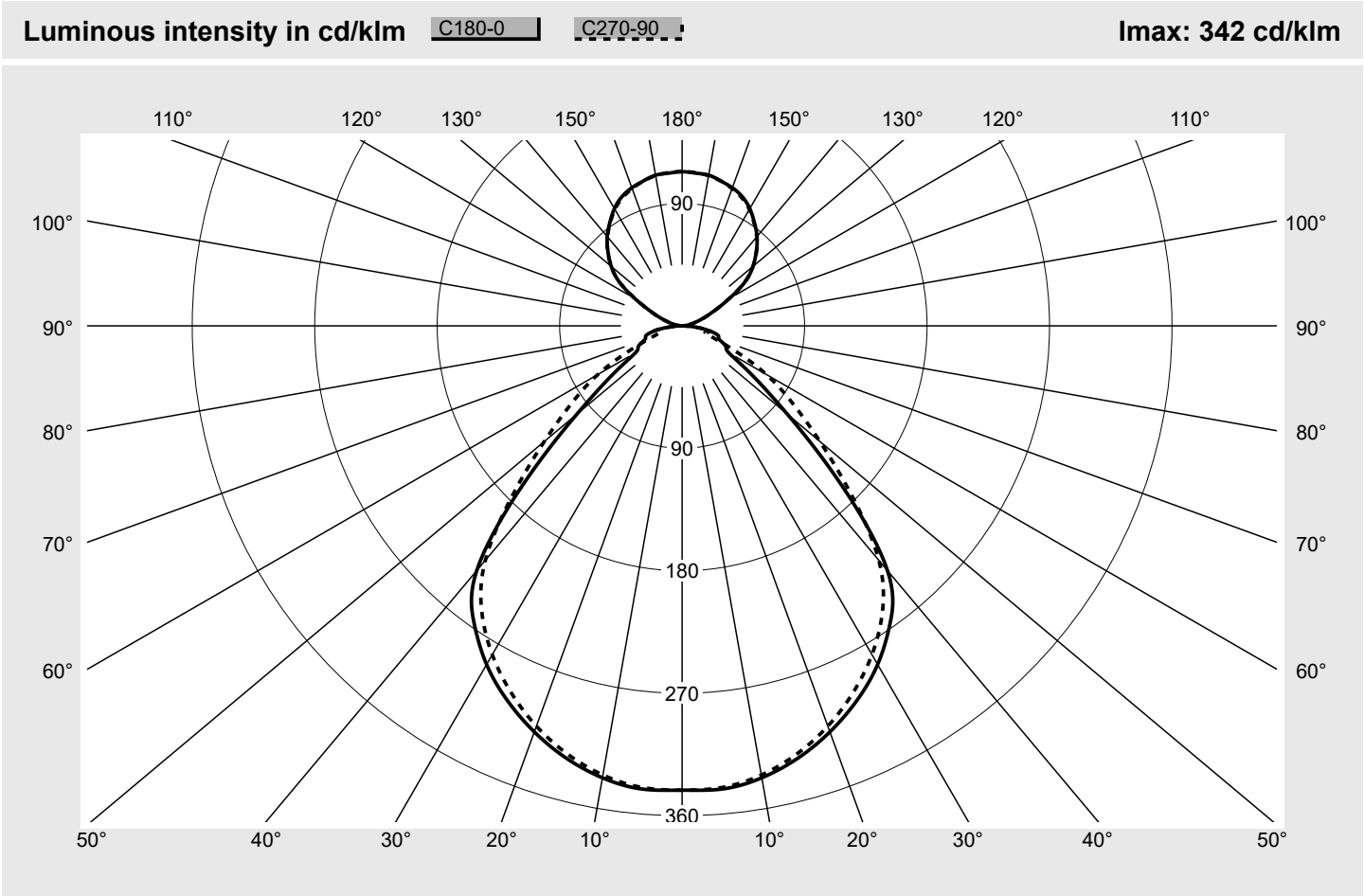
Photometric test report

Family Silica® 21 round M 	Order number: 51MF33DBEMWA EAN: 4069025808356	LP number 60080_7
	Version	Suspended luminaire, housing, white, microprismatic optics, direct-/ indirect distribution, wide distribution, UGR≤19
	Lamps Controlgear Rated values	LED 4000 K CRI ≥ 90 ECG-DALI Net luminous flux = 7920 lm Power consumption = 48.3 W Luminous efficacy = 164 lm/W

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°
		Luminance in cd/m²					
γ							
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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Order number: 51MF33DBEMWA
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LP number
60080_7

Luminance values in cd/m²

γ 65°

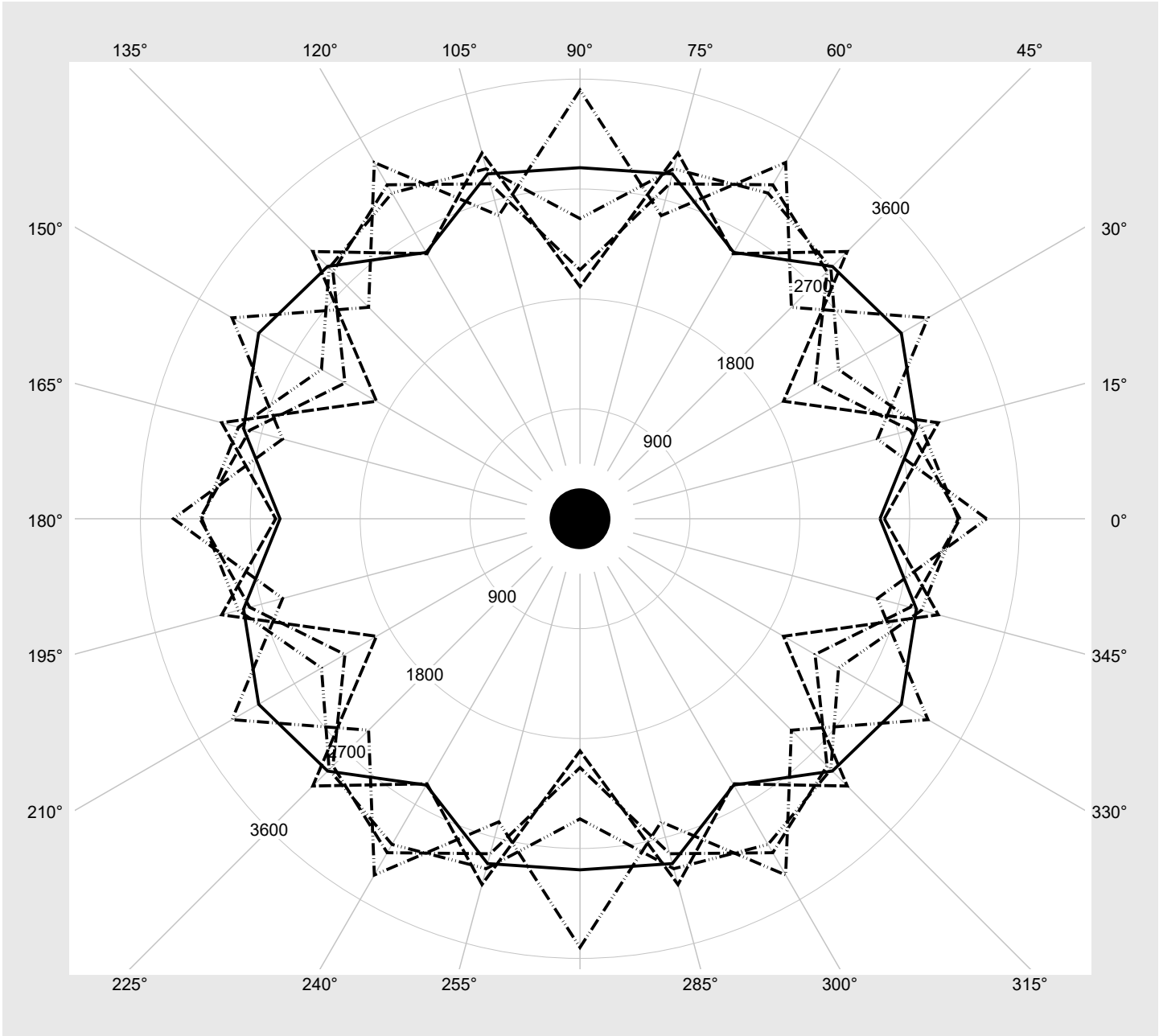
γ 70°

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	7920	48.3
95	241	252	7529	45.8
90	228	250	7136	43.3
85	215	248	6742	40.8
80	202	246	6347	38.5
75	189	243	5950	36.2
70	176	241	5552	33.8
65	163	238	5152	31.4
60	150	235	4748	29.0
55	137	231	4344	26.6
50	125	228	3970	24.3
45	112	224	3563	21.8
40	99	219	3153	19.4
35	87	215	2775	17.2
30	74	209	2362	14.8
25	62	202	1980	12.6
20	50	194	1597	10.5
15	37	183	1179	8.0
10	25	169	793	5.2
5	13	145	405	2.3
3	7	122	210	1.0