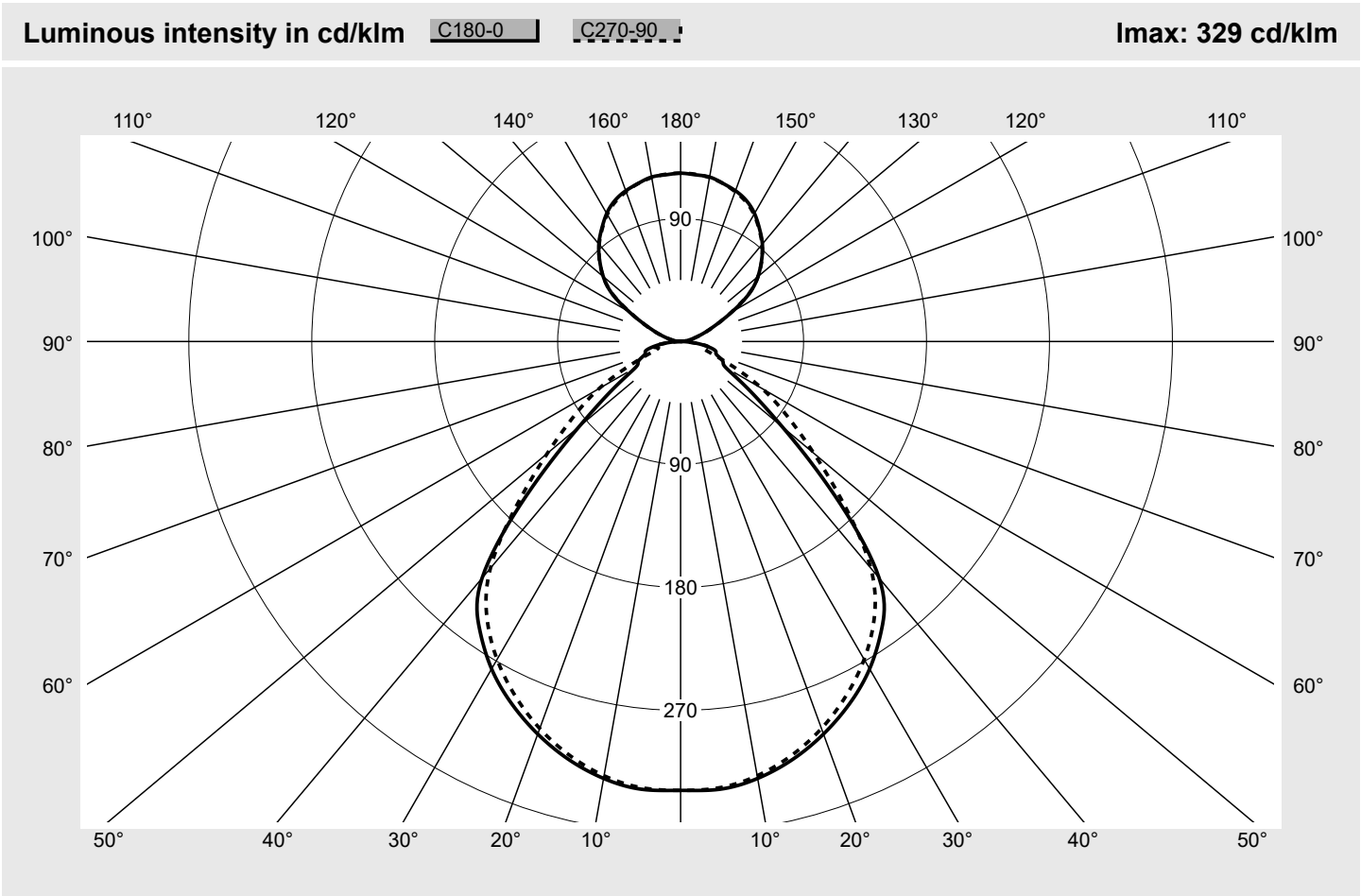


Photometric test report

Family Silica® 21 round M	Order number: 51MF33DBEMBA EAN: 4069025808318	LP number 60081_7
	Version	Suspended luminaire, housing, black, microprismatic optics, direct-/ indirect distribution, wide distribution, UGR≤19
	Lamps	LED 4000 K CRI ≥ 90
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 8220 lm Power consumption = 52.5 W Luminous efficacy = 156.6 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	67.6%
	N4=68 N5=100	ϕ_o	32.4%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21 round M	Order number: 51MF33DBEMBA EAN: 4069025808318	LP number 60081_7
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°	328.6	328.6	328.6	328.6	328.6	328.6	328.6	2.0	2.0
5°	329.0	327.3	325.4	326.6	328.1	327.9	327.9	15.6	17.6
10°	324.8	323.0	320.8	321.7	323.1	322.8	322.8	30.7	48.3
15°	316.7	315.0	312.7	313.2	314.2	313.8	313.7	44.5	92.8
20°	305.8	304.0	301.4	301.5	302.1	301.6	301.5	56.7	149.5
25°	292.6	290.5	287.3	287.1	287.8	286.9	286.3	66.8	216.3
30°	276.7	274.3	270.5	270.3	271.2	269.8	268.7	74.4	290.7
35°	256.7	254.3	249.7	250.0	250.6	249.2	247.1	78.9	369.6
40°	226.1	226.2	222.1	221.8	218.1	219.2	216.6	78.0	447.6
45°	159.9	170.2	172.6	169.3	154.5	169.0	169.8	64.6	512.2
50°	97.2	111.5	130.1	111.4	96.5	109.7	127.3	47.0	559.2
55°	59.9	68.4	96.9	68.1	59.3	66.6	95.3	32.7	591.9
60°	38.2	46.2	68.1	46.7	38.0	45.6	68.9	23.6	615.5
65°	34.0	39.5	42.1	40.5	34.9	40.5	39.8	19.4	634.9
70°	28.0	34.1	21.6	34.7	28.1	34.8	21.3	15.3	650.2
75°	26.4	23.8	18.9	24.3	26.8	24.1	17.3	12.3	662.5
80°	19.0	14.4	18.7	13.9	19.2	14.6	20.0	9.0	671.6
85°	8.9	8.3	7.0	8.3	8.8	8.5	7.0	4.4	676.0
90°	0.7	0.9	0.5	0.8	0.6	0.6	0.4	0.3	676.4
95°	2.8	2.7	2.7	2.7	2.7	2.7	2.7	1.5	677.8
100°	6.3	6.2	6.2	6.3	6.3	6.3	6.3	3.4	681.2
105°	11.1	11.0	11.2	11.3	11.4	11.3	11.4	5.9	687.2
110°	18.3	18.1	18.4	18.6	18.6	18.6	18.6	9.5	696.7
115°	28.2	28.2	28.4	28.5	28.7	28.8	28.7	14.2	710.8
120°	43.5	43.3	43.2	43.2	43.1	43.1	43.0	20.5	731.3
125°	61.5	61.3	61.3	61.2	61.6	61.6	61.2	27.6	758.9
130°	73.9	73.8	73.9	74.2	74.6	74.3	74.0	31.1	790.0
135°	83.8	83.8	84.1	84.6	84.6	84.2	84.0	32.6	822.7
140°	93.1	92.9	93.0	93.3	93.2	92.9	92.8	32.8	855.5
145°	100.7	100.8	101.0	100.9	100.6	100.5	100.2	31.7	887.1
150°	108.2	108.2	108.2	108.0	107.7	107.6	107.4	29.6	916.7
155°	113.8	113.5	113.3	113.0	112.9	112.9	112.9	26.2	942.9
160°	117.4	117.1	116.9	116.6	116.9	116.5	116.7	21.9	964.8
165°	119.8	119.8	119.8	119.9	119.8	119.5	119.8	17.0	981.8
170°	122.2	122.2	122.2	121.9	121.5	121.7	121.8	11.6	993.4
175°	122.5	122.5	122.6	122.7	122.8	122.9	122.9	5.9	999.3
180°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	0.7	1000.0

Photometric test report

Family Silica® 21 round M			Order number: 51MF33DBEMBA EAN: 4069025808318							LP number 60081_7	
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	14.8	15.8	15.5	16.6	17.5	14.6	15.6	15.3	16.4	17.3
	3H	15.3	16.3	16.1	17.1	18.1	15.2	16.1	16.0	16.9	17.9
	4H	15.8	16.7	16.6	17.5	18.5	15.5	16.4	16.3	17.2	18.2
	6H	16.2	17.0	17.1	17.8	18.9	15.9	16.7	16.8	17.5	18.6
	8H	16.4	17.1	17.2	17.9	19.0	16.1	16.8	16.9	17.7	18.7
	12H	16.5	17.2	17.4	18.0	19.1	16.2	16.9	17.1	17.7	18.8
4H	2H	14.9	15.7	15.7	16.5	17.5	14.7	15.6	15.5	16.4	17.4
	3H	15.6	16.4	16.5	17.2	18.2	15.6	16.4	16.5	17.2	18.2
	4H	16.2	16.8	17.0	17.7	18.7	16.1	16.8	17.0	17.6	18.7
	6H	16.8	17.3	17.6	18.2	19.2	16.7	17.3	17.6	18.1	19.2
	8H	16.9	17.4	17.8	18.3	19.4	16.9	17.4	17.8	18.3	19.4
	12H	17.2	17.6	18.1	18.5	19.6	17.1	17.5	18.0	18.4	19.5
8H	4H	16.3	16.8	17.2	17.7	18.8	16.3	16.8	17.2	17.7	18.8
	6H	17.0	17.4	17.9	18.3	19.5	17.0	17.4	17.9	18.3	19.4
	8H	17.4	17.8	18.3	18.7	19.8	17.4	17.8	18.3	18.7	19.8
	12H	17.7	18.0	18.6	18.9	20.1	17.7	18.0	18.6	18.9	20.1
12H	4H	16.4	16.8	17.3	17.7	18.8	16.3	16.8	17.2	17.7	18.8
	6H	17.2	17.5	18.1	18.4	19.5	17.1	17.5	18.0	18.4	19.5
	8H	17.5	17.8	18.4	18.8	19.9	17.6	17.9	18.5	18.8	19.9

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 586		
C-planes	γ	0°	15°	30°	45°	60°	75°	90°
		180°	165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		6891.8	7335.0	7440.9	7297.8	6660.1	7283.6	7317.9
50°		4606.7	5285.0	6170.5	5281.8	4576.2	5201.1	6036.9
55°		3182.0	3635.2	5151.5	3619.4	3152.8	3540.7	5066.0
60°		2325.5	2817.4	4148.1	2848.4	2318.3	2780.4	4197.0
65°		2455.4	2850.5	3037.1	2920.6	2516.7	2921.8	2873.2
70°		2490.8	3036.5	1923.6	3093.2	2504.7	3099.1	1900.1
75°		3111.0	2798.9	2221.5	2859.9	3155.9	2838.4	2036.7
80°		3328.0	2519.9	3288.5	2447.2	3366.4	2568.3	3508.4
85°		3095.2	2894.1	2443.3	2903.9	3078.0	2965.1	2456.6

Photometric test report

Family
Silica® 21 round M

Order number: 51MF33DBEMBA
EAN: 4069025808318

LP number
60081_7

Luminance values in cd/m²

γ 65°

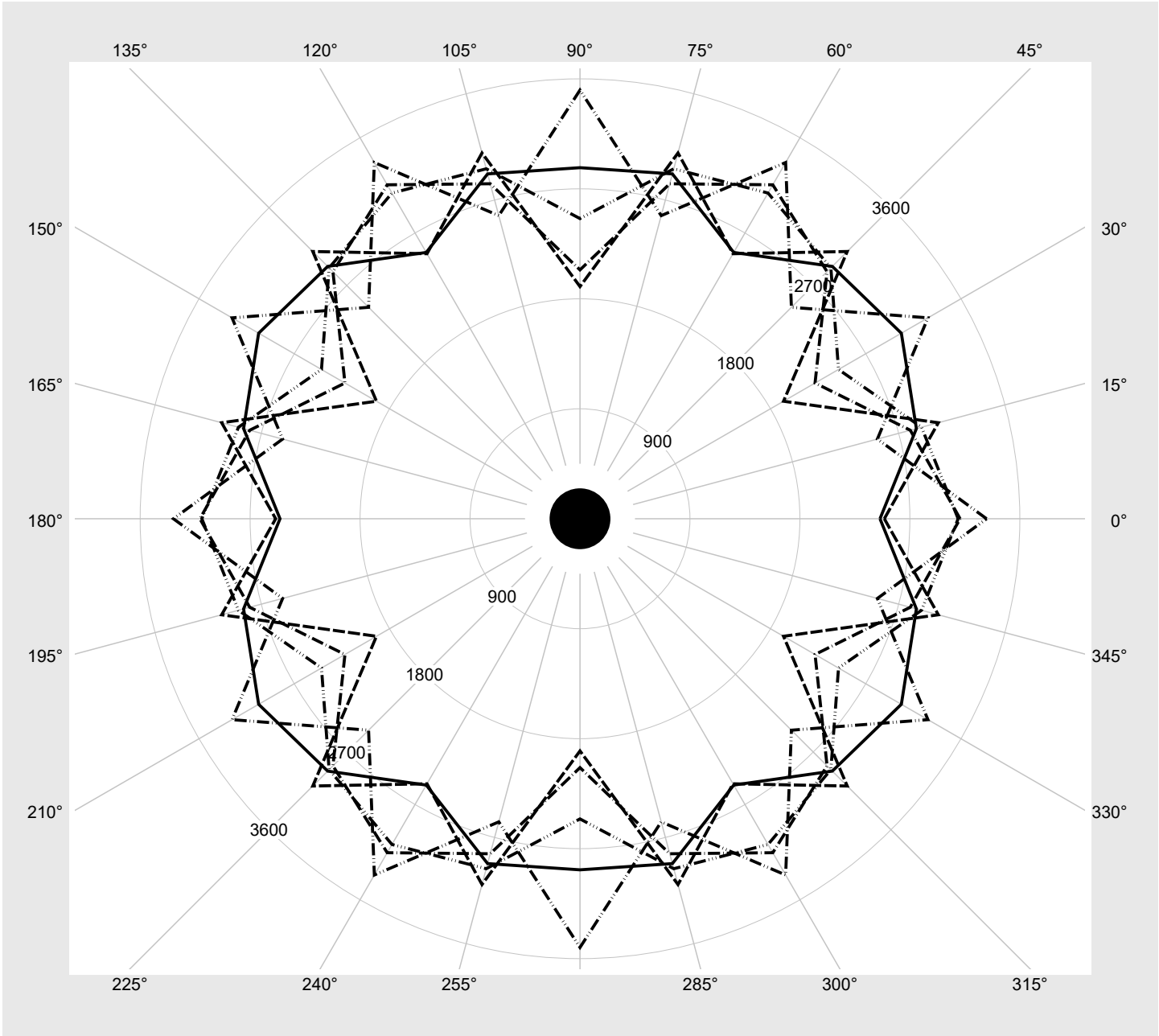
γ 70°

γ 75°

γ 80°

γ 85°

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Photometric test report

Family Silica® 21 round M	Order number: 51MF33DBEMBA EAN: 4069025808318	LP number 60081_7
Dimming levels table		environmental temperature: 25°C



Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8220	52.5
95	241	252	7816	49.8
90	228	250	7410	47.1
85	215	248	7002	44.4
80	201	245	6561	41.5
75	188	243	6150	39.0
70	176	241	5769	36.6
65	163	238	5354	34.0
60	150	235	4937	31.5
55	137	231	4517	28.9
50	124	228	4096	26.2
45	112	224	3706	23.7
40	99	219	3281	21.0
35	87	215	2887	18.7
30	74	209	2459	16.0
25	62	202	2061	13.6
20	49	194	1629	11.1
15	37	183	1229	8.7
10	25	169	827	5.8
5	13	145	423	2.5
2	6	117	187	0.9