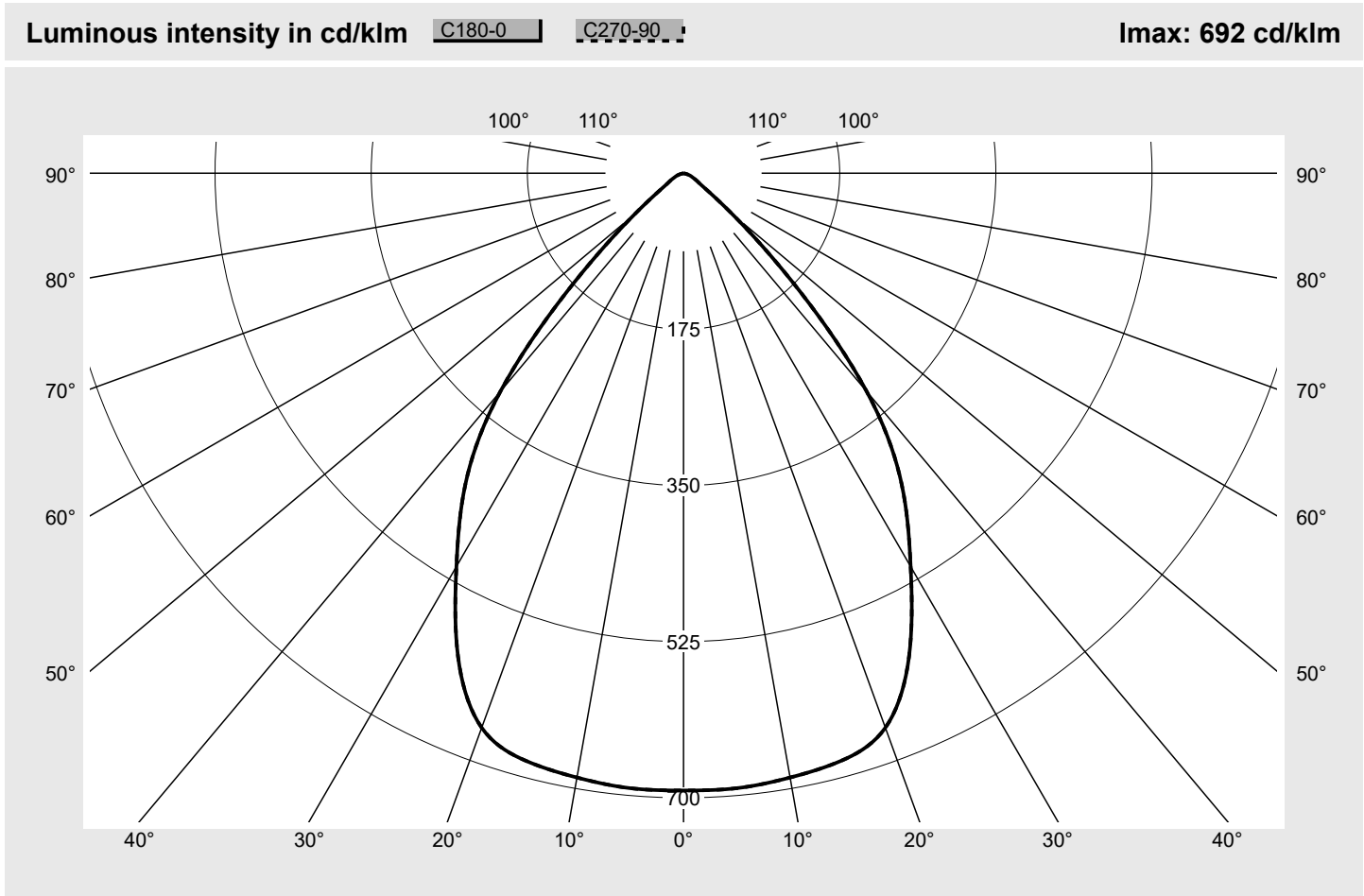


Photometric test report

Family Silica® 21	Order number: 51MX6NDS44W EAN: 4058352881088	LP number 59476_30
	Version	recessed luminaire for lay-in mounting, white, square M600, reflector, white, wide distribution, UGR≤19 (L65≤3000cd/m²)
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 4600 lm Power consumption = 27.0 W Luminous efficacy = 170.4 lm/W
		serial documentation 08.07.2024
		siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 6 0	η_{LB}	100.0%
CIE	N1=83 N2=98 N3=100	ϕ_u	100.0%
	N4=100 N5=100	ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21	Order number: 51MX6NDS44W EAN: 4058352881088	LP number 59476_30
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C- planes	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
γ	Luminous intensity in cd/klm												
0°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8
5°	691.8	690.1	689.5	690.3	689.5	690.1	691.8	690.1	689.5	690.3	689.5	690.1	691.8
10°	687.7	685.9	684.6	686.1	684.6	685.9	687.7	685.9	684.6	686.1	684.6	685.9	687.7
15°	681.9	682.7	682.4	683.5	682.4	682.7	681.9	682.7	682.4	683.5	682.4	682.7	681.9
20°	661.4	664.8	668.4	670.3	668.4	664.8	661.4	664.8	668.4	670.3	668.4	664.8	661.4
25°	597.9	606.9	617.6	624.9	617.6	606.9	597.9	606.9	617.6	624.9	617.6	606.9	597.9
30°	509.0	515.5	521.1	521.4	521.1	515.5	509.0	515.5	521.1	521.4	521.1	515.5	509.0
35°	426.5	434.6	427.1	414.6	427.1	434.6	426.5	434.6	427.1	414.6	427.1	434.6	426.5
40°	319.3	331.1	332.4	327.0	332.4	331.1	319.3	331.1	332.4	327.0	332.4	331.1	319.3
45°	173.8	182.0	189.1	192.4	189.1	182.0	173.8	182.0	189.1	192.4	189.1	182.0	173.8
50°	71.3	74.6	80.4	85.0	80.4	74.6	71.3	74.6	80.4	85.0	80.4	74.6	71.3
55°	28.7	31.3	36.3	41.5	36.3	31.3	28.7	31.3	36.3	41.5	36.3	31.3	28.7
60°	17.6	18.6	20.5	22.6	20.5	18.6	17.6	18.6	20.5	22.6	20.5	18.6	17.6
65°	11.4	11.8	12.5	12.8	12.5	11.8	11.4	11.8	12.5	12.8	12.5	11.8	11.4
70°	7.8	8.0	7.4	7.2	7.4	8.0	7.8	8.0	7.4	7.2	7.4	8.0	7.8
75°	3.2	3.5	3.8	3.8	3.8	3.5	3.2	3.5	3.8	3.8	3.8	3.5	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Photometric test report

Family Silica® 21	Order number: 51MX6NDS44W EAN: 4058352881088	LP number 59476_30
Table of values for luminous intensities		Maximum luminous intensity

siteco

C- planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	4.1	4.1
5°	690.1	689.5	690.3	689.5	690.1	691.8	690.1	689.5	690.3	689.5	690.1	33.0	37.1
10°	685.9	684.6	686.1	684.6	685.9	687.7	685.9	684.6	686.1	684.6	685.9	65.3	102.4
15°	682.7	682.4	683.5	682.4	682.7	681.9	682.7	682.4	683.5	682.4	682.7	96.8	199.2
20°	664.8	668.4	670.3	668.4	664.8	661.4	664.8	668.4	670.3	668.4	664.8	124.9	324.1
25°	606.9	617.6	624.9	617.6	606.9	597.9	606.9	617.6	624.9	617.6	606.9	141.8	465.9
30°	515.5	521.1	521.4	521.1	515.5	509.0	515.5	521.1	521.4	521.1	515.5	141.8	607.7
35°	434.6	427.1	414.6	427.1	434.6	426.5	434.6	427.1	414.6	427.1	434.6	134.4	742.1
40°	331.1	332.4	327.0	332.4	331.1	319.3	331.1	332.4	327.0	332.4	331.1	115.9	857.9
45°	182.0	189.1	192.4	189.1	182.0	173.8	182.0	189.1	192.4	189.1	182.0	71.6	929.5
50°	74.6	80.4	85.0	80.4	74.6	71.3	74.6	80.4	85.0	80.4	74.6	32.6	962.2
55°	31.3	36.3	41.5	36.3	31.3	28.7	31.3	36.3	41.5	36.3	31.3	15.4	977.5
60°	18.6	20.5	22.6	20.5	18.6	17.6	18.6	20.5	22.6	20.5	18.6	9.4	986.9
65°	11.8	12.5	12.8	12.5	11.8	11.4	11.8	12.5	12.8	12.5	11.8	6.0	992.9
70°	8.0	7.4	7.2	7.4	8.0	7.8	8.0	7.4	7.2	7.4	8.0	3.9	996.9
75°	3.5	3.8	3.8	3.8	3.5	3.2	3.5	3.8	3.8	3.8	3.5	1.9	998.8
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	999.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

Photometric test report

Family Silica® 21	Order number: 51MX6NDS44W EAN: 4058352881088	LP number 59476_30
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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	19.2	20.5	19.6	20.8	21.1	19.2	20.5	19.6	20.8	21.1
	3H	19.1	20.3	19.5	20.6	21.0	19.1	20.3	19.5	20.6	21.0
	4H	19.1	20.1	19.5	20.5	20.9	19.1	20.1	19.5	20.5	20.9
	6H	19.0	20.0	19.4	20.4	20.8	19.0	20.0	19.4	20.4	20.8
	8H	19.0	19.9	19.4	20.3	20.7	19.0	19.9	19.4	20.3	20.7
	12H	19.0	19.8	19.5	20.2	20.6	19.0	19.8	19.5	20.2	20.6
4H	2H	19.1	20.1	19.5	20.5	20.9	19.1	20.1	19.5	20.5	20.9
	3H	19.0	19.9	19.4	20.3	20.7	19.0	19.9	19.4	20.3	20.7
	4H	18.9	19.7	19.4	20.1	20.6	18.9	19.7	19.4	20.1	20.6
	6H	18.9	19.5	19.3	20.0	20.4	18.9	19.5	19.3	20.0	20.4
	8H	18.8	19.4	19.3	19.9	20.4	18.8	19.4	19.3	19.9	20.4
	12H	18.8	19.3	19.3	19.8	20.3	18.8	19.3	19.3	19.8	20.3
8H	4H	18.8	19.4	19.3	19.9	20.4	18.8	19.4	19.3	19.9	20.4
	6H	18.8	19.2	19.3	19.7	20.2	18.8	19.2	19.3	19.7	20.2
	8H	18.7	19.1	19.2	19.6	20.2	18.7	19.1	19.2	19.6	20.2
	12H	18.7	19.0	19.2	19.5	20.1	18.7	19.0	19.2	19.5	20.1
12H	4H	18.8	19.3	19.3	19.8	20.3	18.8	19.3	19.3	19.8	20.3
	6H	18.7	19.1	19.3	19.6	20.2	18.7	19.1	19.3	19.6	20.2
	8H	18.7	19.0	19.2	19.5	20.1	18.7	19.0	19.2	19.5	20.1

Luminance table		Max. for $\gamma \geq 65^\circ$										Photometric dimensions in mm:	L = 294 B = 196
C-planes		0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
γ		Luminance in cd/m²											
45°		19618.9	21349.5	21349.5	19618.9	21349.7	21349.7	19618.9	21349.5	21349.7	19618.9	21349.5	21349.7
50°		8851.6	9983.9	9983.8	8851.6	9983.9	9983.9	8851.6	9983.8	9983.9	8851.6	9983.8	9983.9
55°		3995.6	5053.3	5053.3	3995.6	5053.3	5053.3	3995.6	5053.3	5053.3	3995.6	5053.2	5053.3
60°		2810.7	3267.7	3267.7	2810.7	3267.7	3267.7	2810.7	3267.7	3267.7	2810.7	3267.7	3267.7
65°		2155.4	2363.0	2363.0	2155.4	2363.0	2363.0	2155.4	2363.0	2363.0	2155.4	2363.0	2363.0
70°		1816.6	1737.2	1737.2	1816.6	1737.2	1737.0	1816.6	1737.0	1737.0	1816.6	1737.2	1737.0
75°		1001.8	1156.9	1157.2	1002.1	1157.2	1156.9	1001.8	1156.9	1157.2	1002.1	1157.2	1156.9
80°		712.6	724.0	724.0	712.6	724.0	724.0	712.6	724.0	724.0	712.6	724.0	724.0
85°		660.4	654.9	654.9	660.4	654.9	654.9	660.4	654.9	654.9	660.4	654.9	654.9

Photometric test report

Family
Silica® 21

Order number: 51MX6NDS44W
EAN: 4058352881088

LP number
59476_30

Luminance values in cd/m²

γ 65°

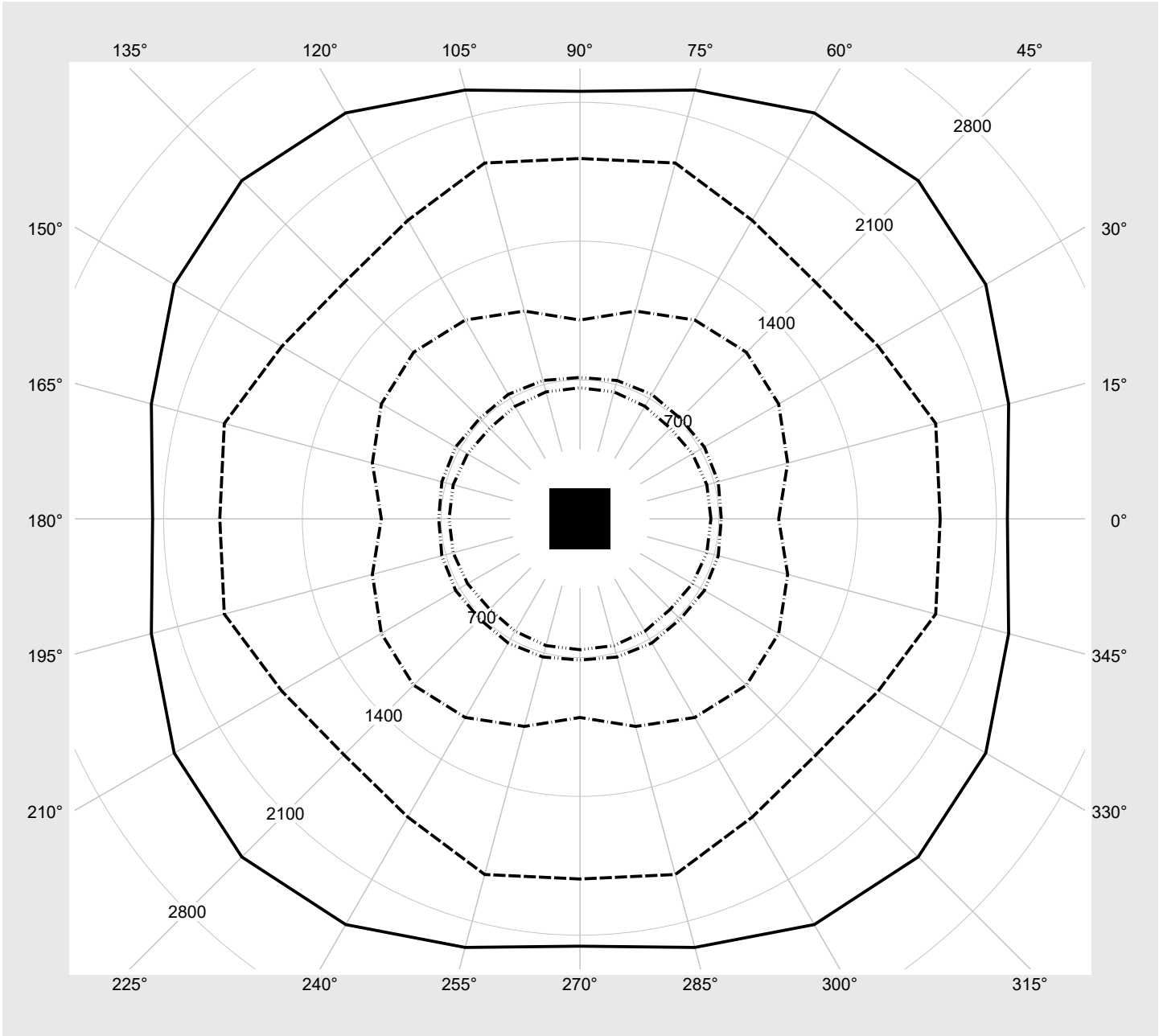
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Silica® 21	Order number: 51MX6NDS44W EAN: 4058352881088	LP number 59476_30
Dimming levels table environmental temperature: 25°C		sit eco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4600	27.0
95	240	252	4364	25.6
90	227	250	4144	24.3
85	213	248	3904	22.8
80	200	245	3680	21.6
75	187	243	3454	20.2
70	174	240	3226	19.0
65	161	237	2995	17.7
60	148	234	2763	16.4
55	135	231	2528	15.1
50	122	227	2293	13.7
45	110	223	2073	12.4
40	97	219	1832	11.1
35	85	214	1609	10.0
30	73	208	1385	8.8
25	61	202	1159	7.6
20	48	193	913	6.3
15	36	182	684	5.1
10	24	168	453	3.9
5	12	142	222	2.7
2	5	110	87	2.0