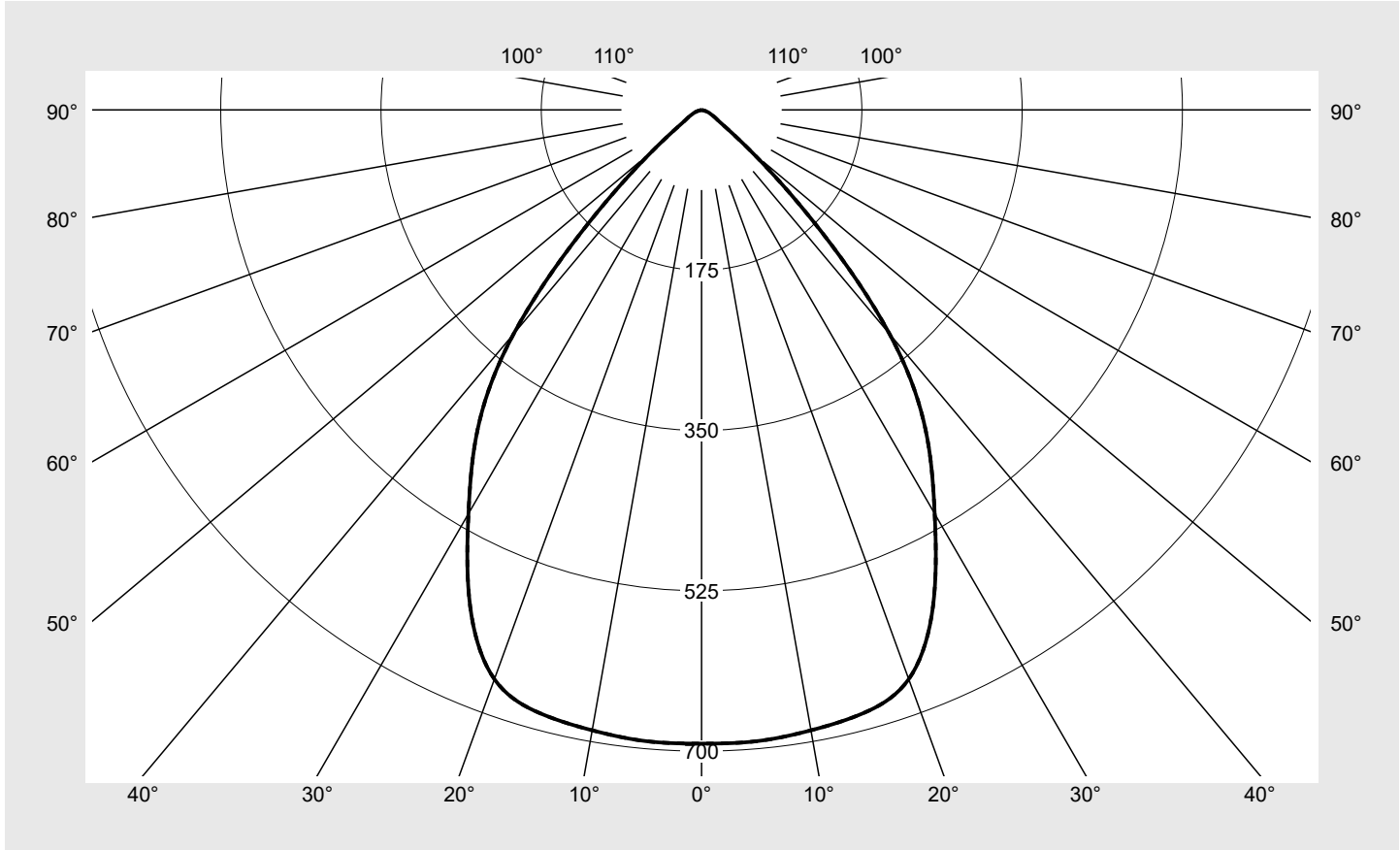


# Photometric test report

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX6NDU44W</b> <b>EAN: 4058352881101</b>	<b>LP number</b> <b>59476_31</b>
	<b>Version</b>	recessed luminaire for lay-in mounting, white, square M625, reflector, white, wide distribution, UGR≤19 (L65≤3000cd/m²)
	<b>Lamps</b>	LED 4000 K   CRI ≥ 80
	<b>Controlgear</b>	ECG-DALI
	<b>Rated values</b>	Net luminous flux = 4600 lm Power consumption = 27.0 W Luminous efficacy = 170.4 lm/W
		<b>serial documentation</b> 08.07.2024
		

**Luminous intensity in cd/klm**
C180-0
C270-90
**Imax: 692 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=83 N2=98 N3=100 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

## Photometric test report

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX6NDU44W</b> <b>EAN: 4058352881101</b>	<b>LP number</b> <b>59476_31</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
$\gamma$	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

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX6NDU44W</b> <b>EAN: 4058352881101</b>	<b>LP number</b> <b>59476_31</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
$\gamma$	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

<b>Family</b> Silica® 21	<b>Order number: 51MX6NDU44W</b> <b>EAN: 4058352881101</b>	<b>LP number</b> 59476_31
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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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

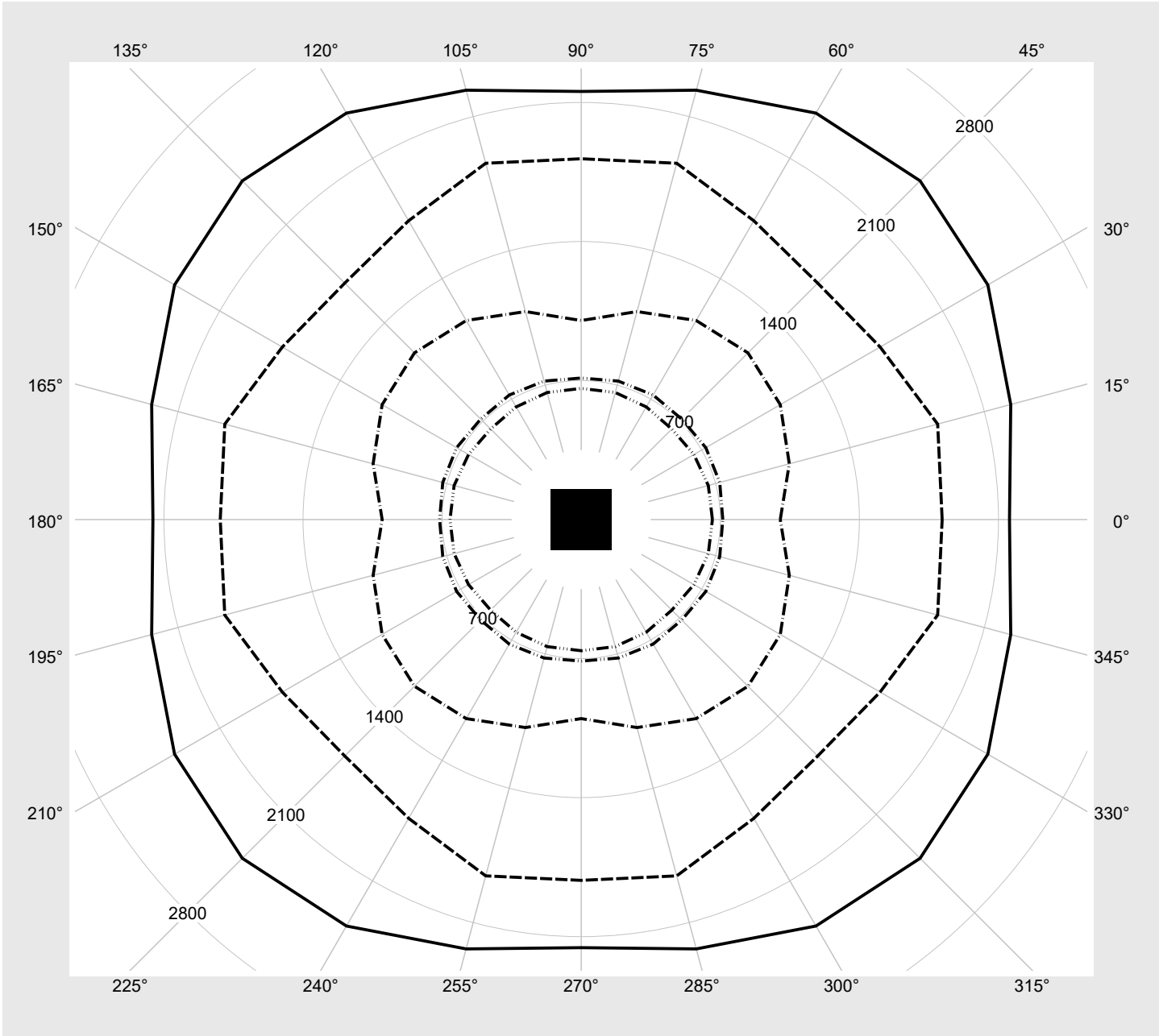
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 294</b>
			<b>B = 196</b>

<b>C-planes</b>	<b>0°</b>	<b>30°</b>	<b>60°</b>	<b>90°</b>	<b>120°</b>	<b>150°</b>	<b>180°</b>	<b>210°</b>	<b>240°</b>	<b>270°</b>	<b>300°</b>	<b>330°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>											
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 <b>Silica® 21</b>	Order number: <b>51MX6NDU44W</b> EAN: <b>4058352881101</b>	LP number <b>59476_31</b>
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Luminance values in cd/m<sup>2</sup>     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



## Photometric test report

Family <b>Silica® 21</b>	Order number: <b>51MX6NDU44W</b> EAN: <b>4058352881101</b>	LP number <b>59476_31</b>
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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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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