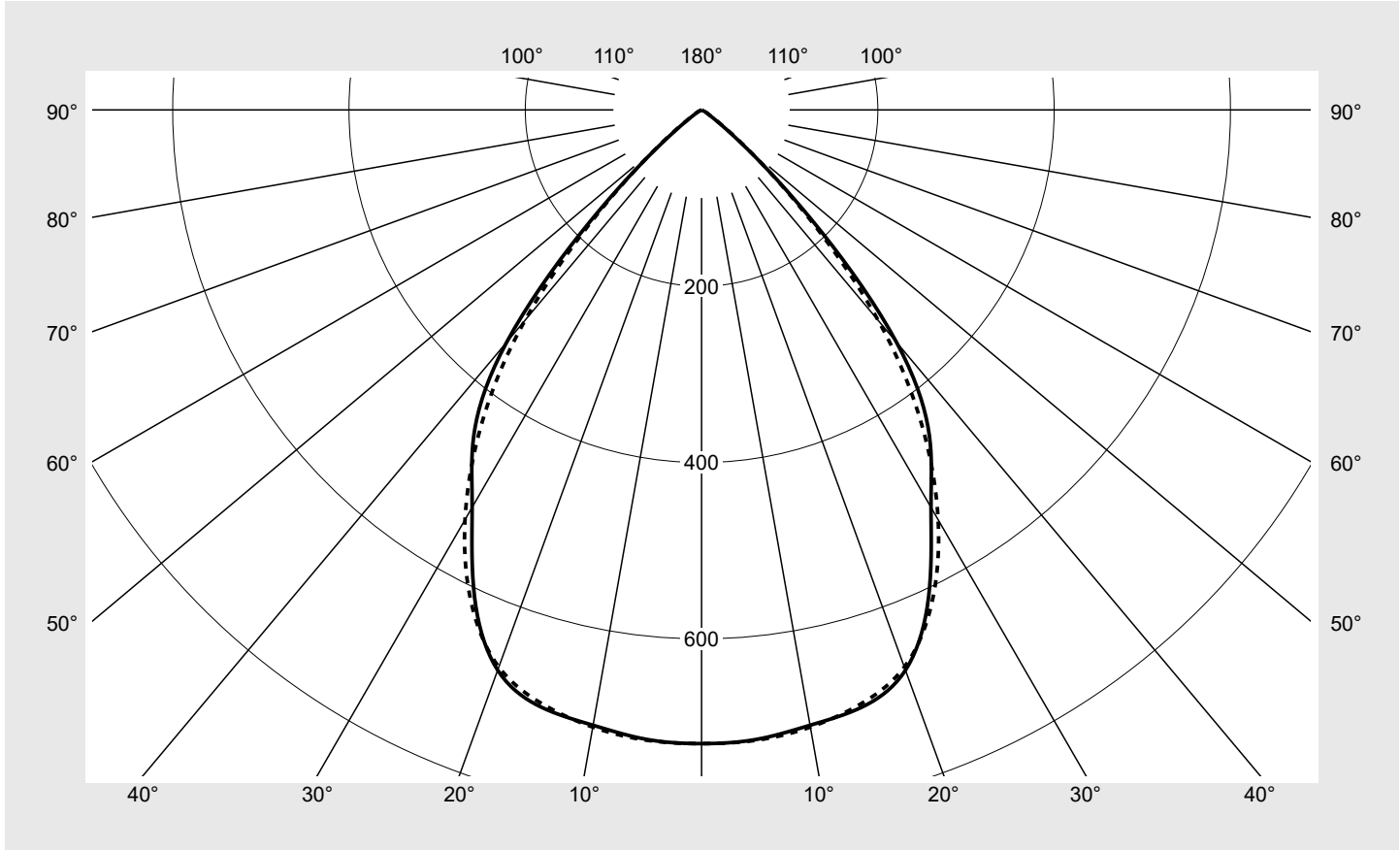


# Photometric test report

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX6KDS34B</b> <b>EAN: 4069025400680</b>	<b>LP number</b> <b>59266_330</b>
	<b>Version</b> recessed luminaire for lay-in mounting, black, square M600, reflector, black, wide distribution, UGR≤19 (L65≤1000cd/m²)	<b>serial documentation</b> <b>18.03.2025</b>
	<b>Lamps</b> LED 3000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 4600 lm Power consumption = 33.7 W Luminous efficacy = 136.5 lm/W	



**Luminous intensity in cd/klm**    C180-0    C270-90    **Imax: 719 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=86 N2=100 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

Family <b>Silica® 21</b>	Order number: <b>51MX6KDS34B</b> EAN: <b>4069025400680</b>	LP number <b>59266_330</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes $\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	718.8	718.8	718.8	718.8	718.8	718.8	718.8	4.3	4.3
5°	716.8	715.7	712.2	716.2	717.8	715.2	717.7	34.2	38.5
10°	708.8	709.0	703.3	708.6	709.9	707.6	710.9	67.4	105.9
15°	701.5	704.3	697.3	698.3	698.8	696.7	697.6	99.2	205.1
20°	676.3	682.5	681.1	681.0	677.6	673.2	672.5	127.2	332.2
25°	609.5	618.9	627.5	636.4	634.5	625.9	617.8	145.0	477.3
30°	520.6	528.9	533.1	542.9	550.7	541.7	536.8	147.4	624.6
35°	450.5	455.7	444.2	436.3	445.0	443.0	435.2	139.8	764.4
40°	343.9	350.9	343.2	332.9	329.4	321.5	312.0	117.8	882.2
45°	178.2	185.2	190.8	192.2	186.9	176.3	167.1	71.3	953.5
50°	59.7	64.4	73.8	78.7	75.2	68.1	63.7	29.5	983.0
55°	15.6	18.5	24.7	31.2	26.2	20.2	17.4	10.3	993.3
60°	6.1	6.8	9.1	12.2	9.8	7.7	7.0	4.1	997.4
65°	2.1	2.4	3.4	4.3	3.8	3.0	2.8	1.6	999.0
70°	1.4	1.4	1.0	1.0	1.2	1.5	1.5	0.7	999.7
75°	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.2	999.9
80°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	999.9
85°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	1000.0
90°	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	1000.0
100°	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	1000.0
110°	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	1000.0
120°	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	1000.0
130°	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	1000.0
140°	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	1000.0
150°	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	1000.0
160°	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	1000.0
170°	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	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

## Photometric test report

Family <b>Silica® 21</b>	Order number: <b>51MX6KDS34B</b> EAN: <b>4069025400680</b>	LP number <b>59266_330</b>
-----------------------------	---	-------------------------------

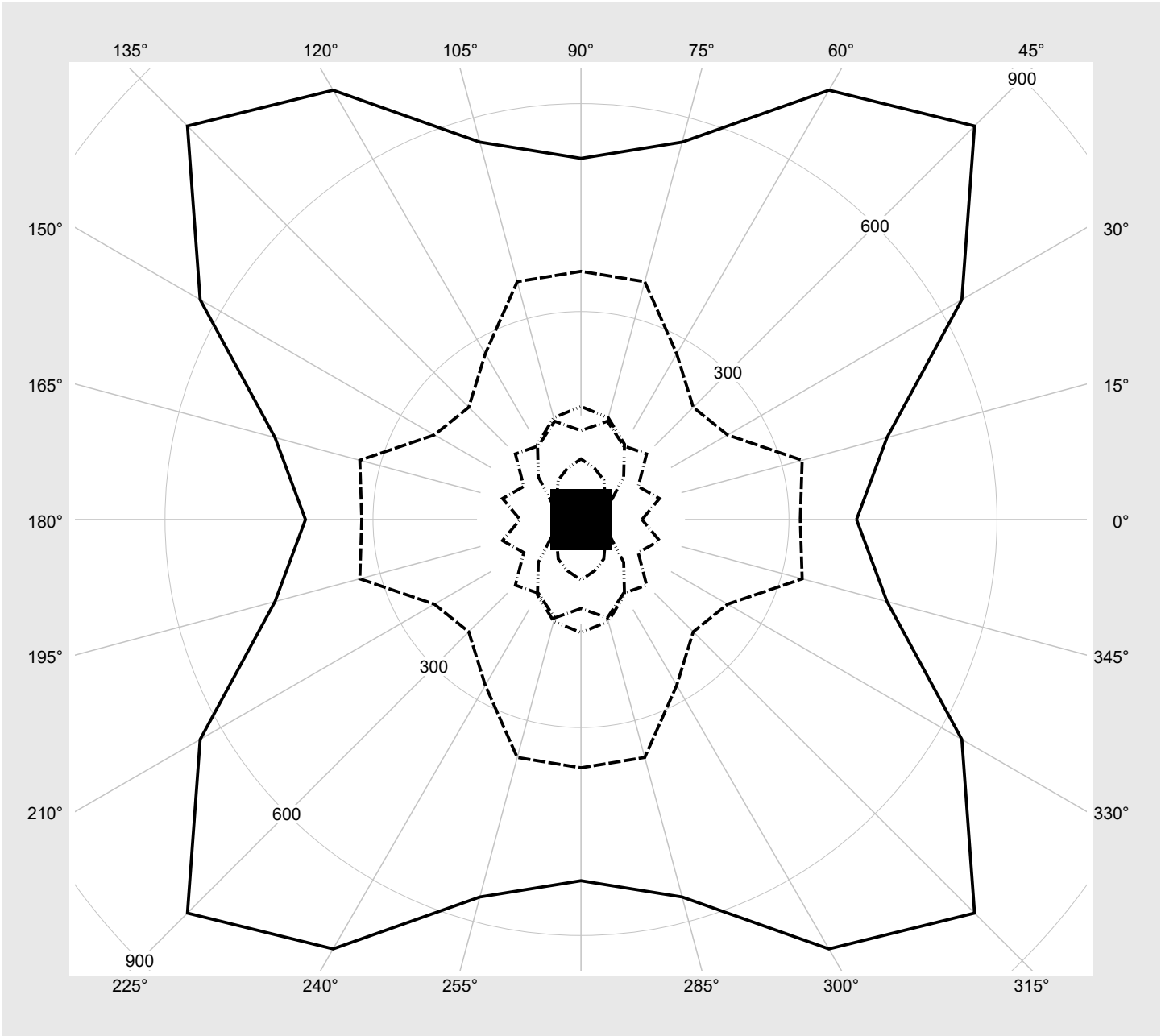
UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	19.3	20.5	19.6	20.9	21.2	19.1	20.4	19.4	20.7	21.0
	3H	19.1	20.2	19.5	20.6	20.9	18.9	20.1	19.3	20.4	20.8
	4H	19.1	20.1	19.5	20.4	20.8	18.9	19.9	19.3	20.3	20.6
	6H	19.0	19.9	19.4	20.3	20.7	18.8	19.7	19.2	20.1	20.5
	8H	19.0	19.8	19.5	20.2	20.6	18.9	19.7	19.3	20.1	20.5
	12H	19.0	19.7	19.4	20.1	20.6	18.8	19.6	19.3	20.0	20.4
4H	2H	19.1	20.1	19.5	20.5	20.8	18.9	19.9	19.3	20.3	20.7
	3H	18.9	19.8	19.3	20.2	20.6	18.7	19.6	19.2	20.0	20.4
	4H	18.8	19.6	19.3	20.0	20.4	18.7	19.4	19.1	19.8	20.3
	6H	18.7	19.4	19.2	19.8	20.3	18.6	19.2	19.0	19.6	20.1
	8H	18.7	19.3	19.2	19.7	20.2	18.5	19.1	19.0	19.6	20.0
	12H	18.7	19.2	19.2	19.6	20.1	18.5	19.0	19.0	19.5	20.0
8H	4H	18.7	19.3	19.2	19.7	20.2	18.5	19.1	19.0	19.6	20.0
	6H	18.6	19.1	19.1	19.5	20.1	18.4	18.9	18.9	19.4	19.9
	8H	18.5	19.0	19.1	19.4	20.0	18.4	18.8	18.9	19.3	19.8
	12H	18.5	18.8	19.0	19.3	19.9	18.3	18.7	18.9	19.2	19.7
12H	4H	18.7	19.2	19.2	19.6	20.1	18.5	19.0	19.0	19.5	20.0
	6H	18.6	19.0	19.1	19.4	20.0	18.4	18.8	18.9	19.3	19.8
	8H	18.5	18.8	19.0	19.3	19.9	18.3	18.7	18.9	19.2	19.7

Luminance table		Max. for $\gamma \geq 65^\circ$								Photometric dimensions in mm:		L = 294
												B = 196
C-planes	$\gamma$	0°	15°	30°	45°	60°	75°	90°				
		180°	165°	150°	135°	120°	105°	270°	255°			
		195°	195°	210°	225°	240°	255°	270°				
		345°	345°	330°	315°	300°	285°	270°				
		Luminance in cd/m <sup>2</sup>										
45°		20118.4	20912.3	21535.7	21699.5	21100.8	19897.6	18867.6				
50°		7419.0	8002.9	9160.5	9769.5	9333.9	8459.8	7916.6				
55°		2172.4	2572.8	3432.3	4346.6	3644.2	2815.2	2422.4				
60°		973.7	1088.5	1459.6	1947.3	1570.7	1229.0	1112.3				
65°		397.4	456.9	634.3	802.8	715.1	563.6	521.0				
70°		316.3	330.3	244.1	229.0	276.1	355.2	358.0				
75°		87.9	117.2	95.3	133.9	122.8	146.8	128.3				
80°		22.1	22.1	32.6	49.2	65.7	76.3	87.3				
85°		22.0	38.5	48.5	87.0	125.5	152.0	163.0				

**Photometric test report**

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX6KDS34B</b> <b>EAN: 4069025400680</b>	<b>LP number</b> <b>59266_330</b>
------------------------------------	---	--------------------------------------

**Luminance values in cd/m²**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



## Photometric test report

Family <b>Silica® 21</b>	Order number: <b>51MX6KDS34B</b> EAN: <b>4069025400680</b>	LP number <b>59266_330</b>
-----------------------------	---	-------------------------------

<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4600	33.7
95	240	252	4373	31.9
90	226	250	4141	30.0
85	212	247	3906	28.1
80	199	245	3686	26.5
75	185	242	3446	24.7
70	172	240	3219	23.0
65	159	237	2991	21.4
60	146	234	2760	19.8
55	133	230	2526	18.2
50	121	227	2307	16.6
45	108	223	2068	15.1
40	96	218	1846	13.5
35	83	213	1603	11.7
30	71	207	1374	10.3
25	59	201	1146	8.8
20	47	192	915	7.3
15	35	181	681	5.8
10	24	168	465	4.5
5	12	142	229	3.1
2	4	102	71	2.0