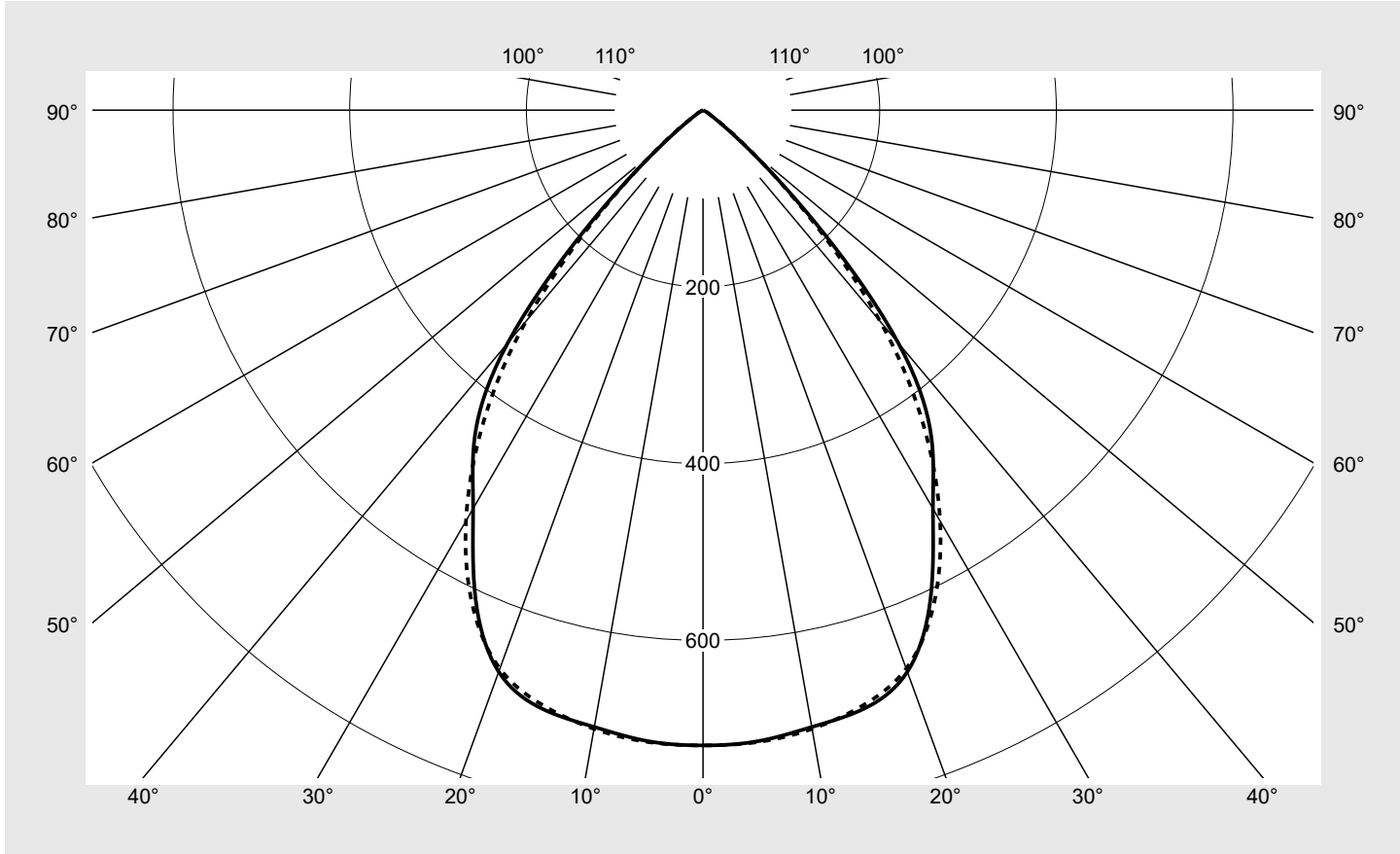


# Photometric test report

<b>Family</b> <b>Silica® 21</b> 	<b>Order number: 51MX6KDS44W</b> <b>EAN: 4058352880968</b>	<b>LP number</b> <b>59266_196</b>
	<b>Version</b> recessed luminaire for lay-in mounting, white, square M600, reflector, black, wide distribution, UGR≤19 (L65≤1000cd/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 = 29.6 W Luminous efficacy = 155.4 lm/W	<b>serial documentation</b> <b>20.10.2023</b>

**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

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<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

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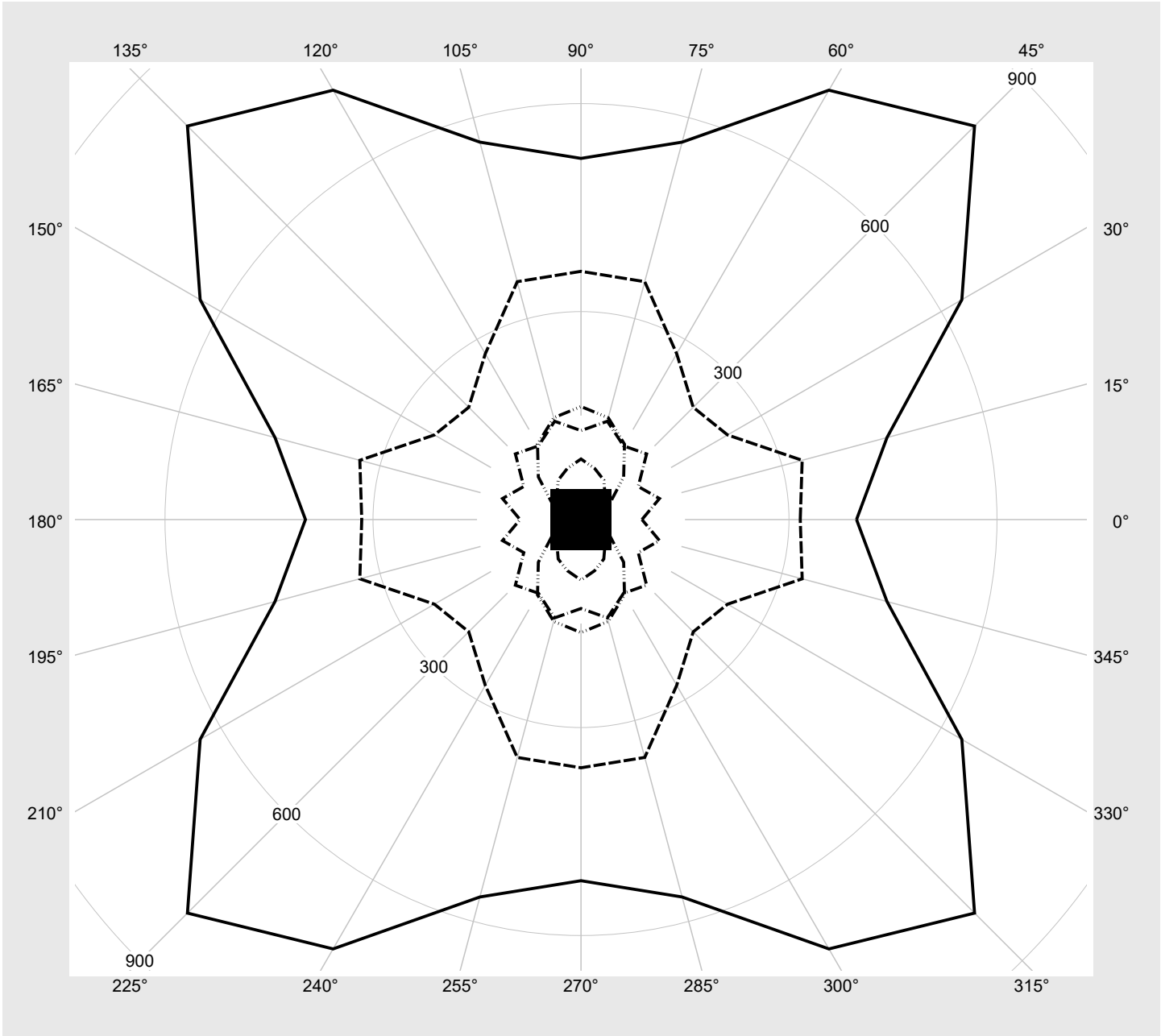
UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
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°			
		195°	195°	210°	225°	240°	255°					
		345°	345°	330°	315°	300°	285°					
		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**

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



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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	29.6
95	240	252	4367	28.0
90	227	250	4148	26.6
85	213	248	3910	25.0
80	200	245	3686	23.5
75	186	243	3443	22.0
70	173	240	3216	20.6
65	160	237	2985	19.1
60	147	234	2754	17.7
55	135	231	2537	16.3
50	122	227	2300	15.0
45	109	223	2062	13.5
40	97	219	1841	12.0
35	85	214	1617	10.7
30	72	208	1373	9.3
25	60	201	1147	8.1
20	48	193	918	6.7
15	36	182	689	5.4
10	24	168	457	4.2
5	12	142	224	2.9
2	5	110	88	2.1