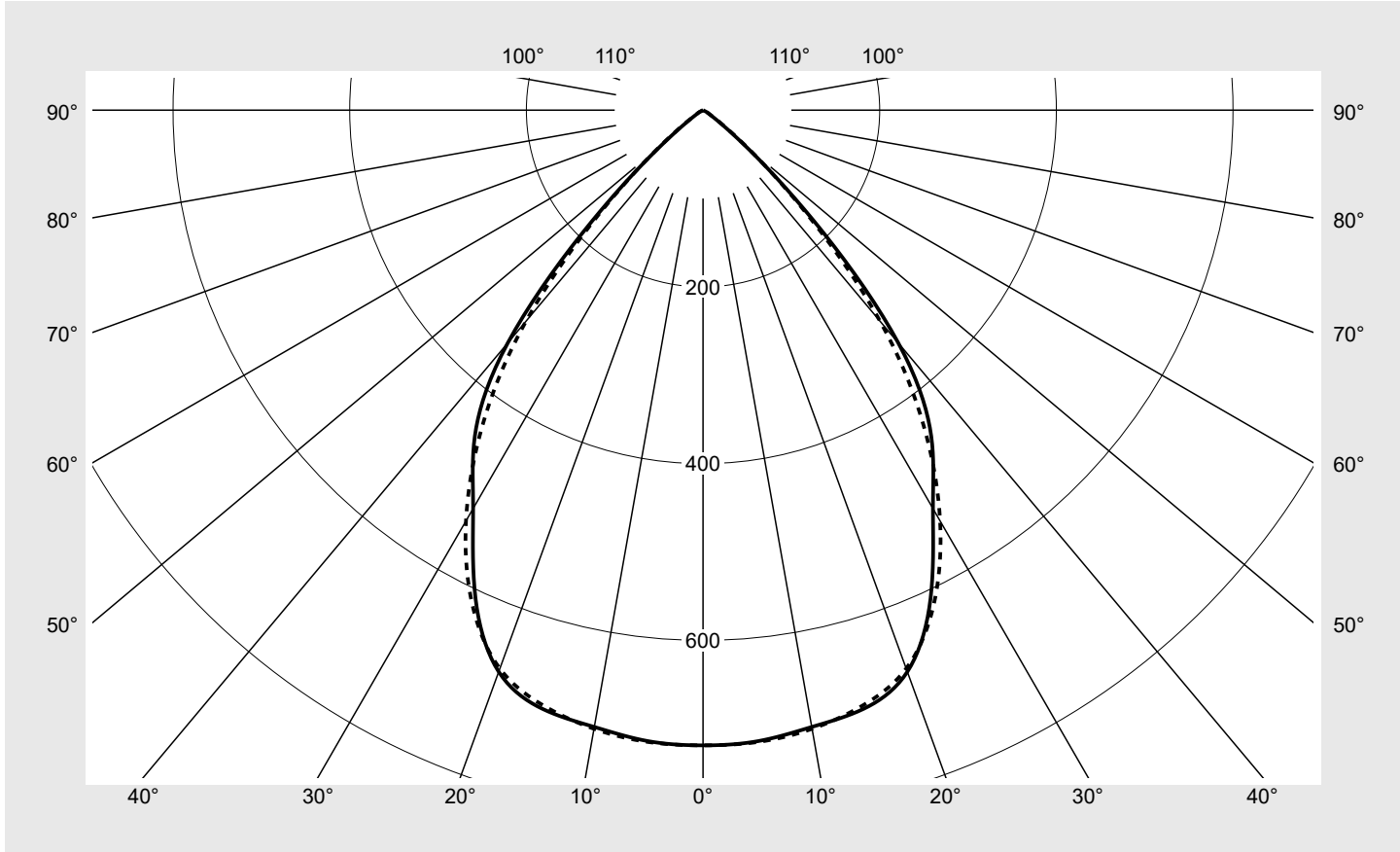


# Photometric test report

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX6KDS34W</b> <b>EAN: 4058352988824</b>	<b>LP number</b> <b>59266_195</b>
	<b>Version</b> recessed luminaire for lay-in mounting, white, square M600, reflector, black, wide distribution, UGR≤19 (L65≤1000cd/m²)	<b>serial documentation</b> <b>20.10.2023</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 = 31.9 W Luminous efficacy = 144.2 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

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</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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<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	19.3	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

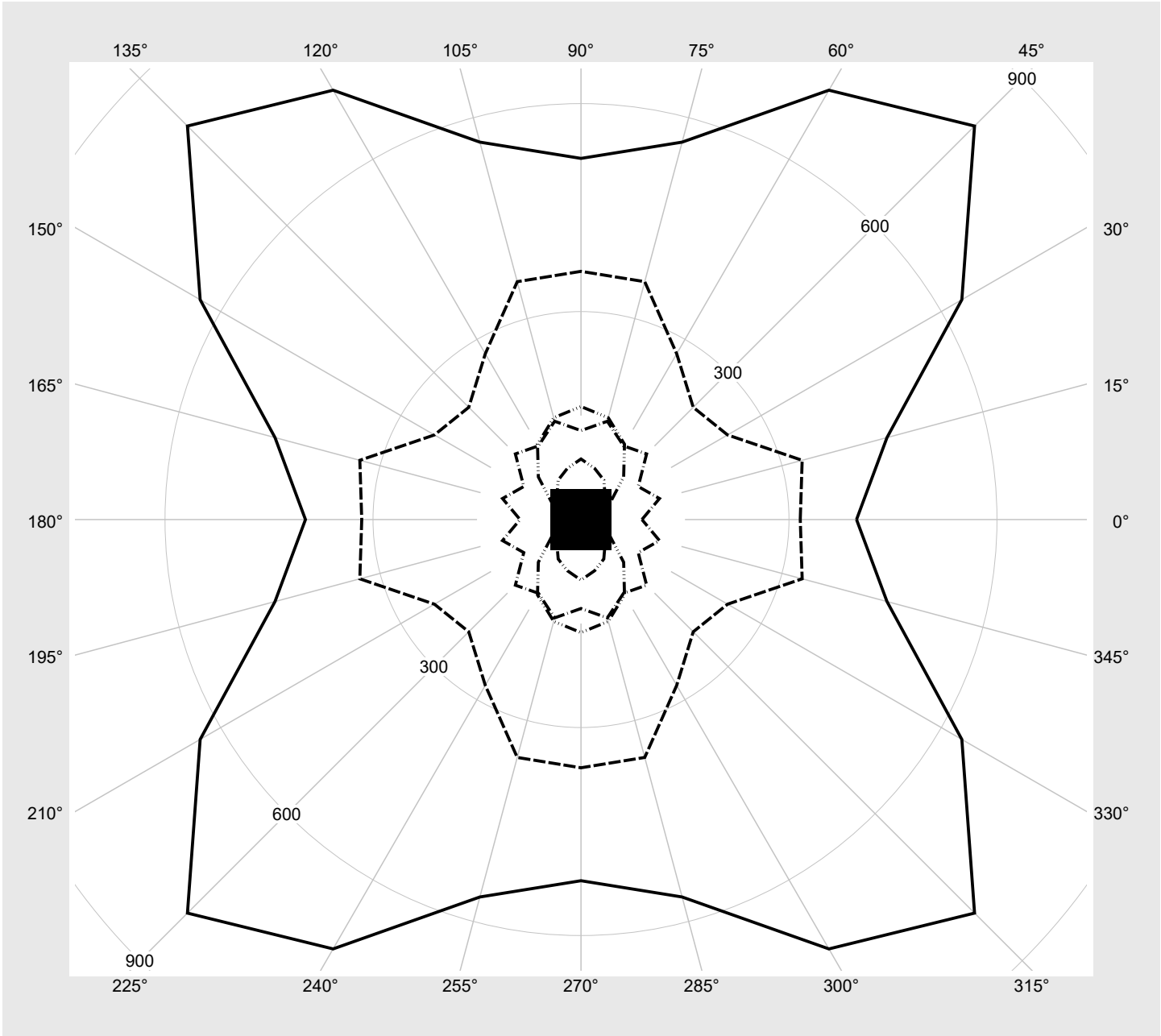
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 294</b> <b>B = 196</b>
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
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	

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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	31.9
95	240	252	4371	30.1
90	226	250	4137	28.5
85	212	247	3902	26.8
80	199	245	3681	25.2
75	186	243	3456	23.5
70	172	240	3212	21.9
65	159	237	2984	20.4
60	146	234	2752	18.8
55	134	231	2536	17.4
50	121	227	2299	15.9
45	109	223	2079	14.5
40	96	218	1839	12.8
35	84	213	1614	11.3
30	72	208	1387	9.9
25	60	201	1159	8.5
20	48	193	928	7.1
15	36	182	697	5.7
10	24	168	462	4.4
5	12	142	228	3.0
2	4	102	70	2.0