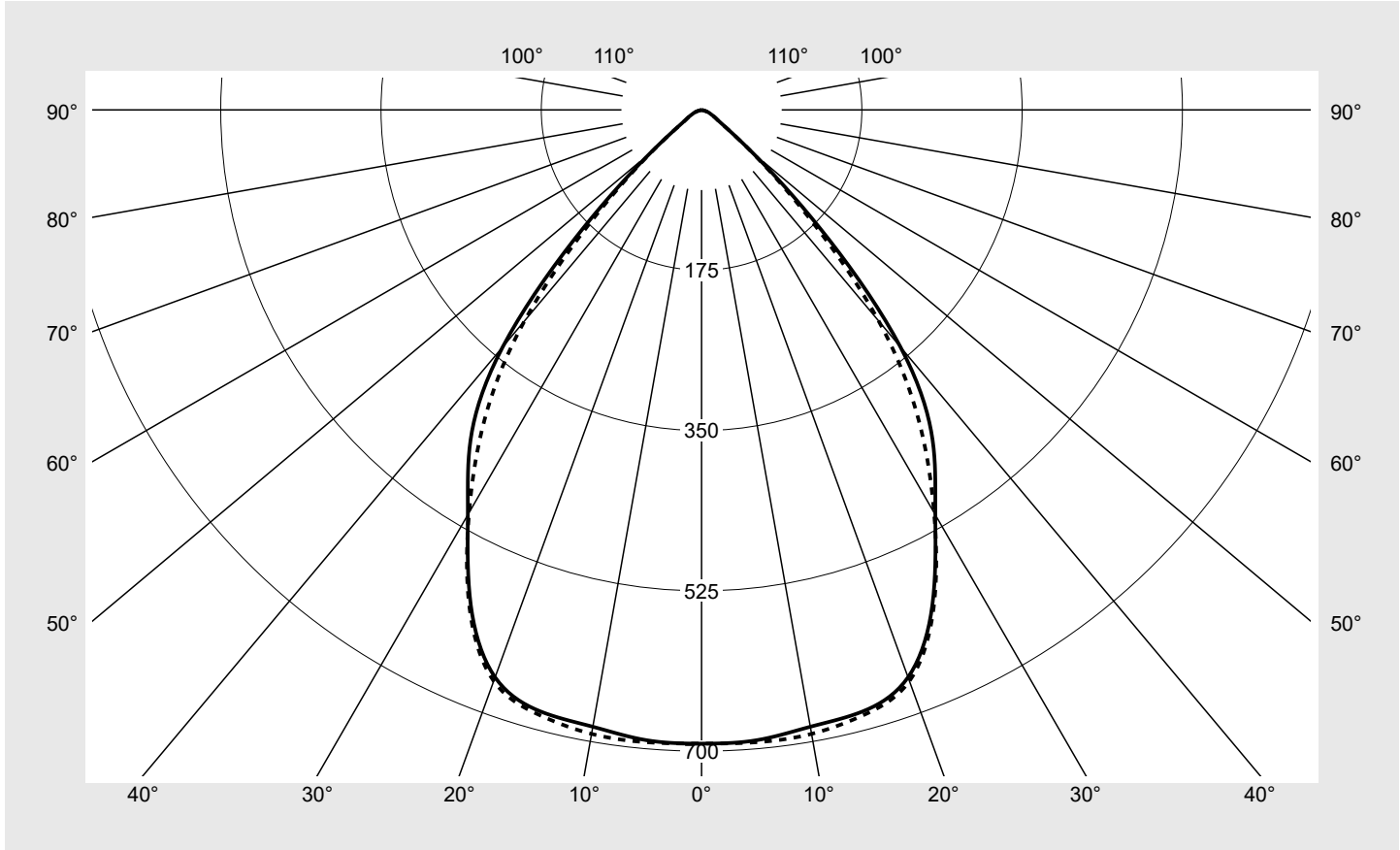


# Photometric test report

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX6MDS44W</b> <b>EAN: 4058352881040</b>	<b>LP number</b> <b>59267_172</b>
	<b>Version</b> recessed luminaire for lay-in mounting, white, square M600, reflector, white, wide distribution, UGR≤19 (L65≤3000cd/m²)	<b>serial documentation</b> <b>20.10.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
<b>Controlgear</b> ECG-DALI		
<b>Rated values</b> Net luminous flux = 4600 lm Power consumption = 27.2 W Luminous efficacy = 169.1 lm/W		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 693 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

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

C-planes γ	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°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	4.1	4.1
5°	690.7	689.7	686.1	690.3	692.9	690.5	692.9	33.0	37.1
10°	683.8	683.7	680.0	686.1	689.1	688.2	691.7	65.3	102.4
15°	679.8	682.8	679.6	683.5	685.2	682.6	683.9	96.8	199.2
20°	659.2	666.3	668.8	670.3	667.9	663.4	663.6	124.9	324.1
25°	596.3	606.7	617.7	624.9	617.5	607.1	599.6	141.8	465.9
30°	510.4	519.4	522.0	521.4	520.1	511.7	507.7	141.8	607.7
35°	439.7	447.6	431.3	414.6	422.9	421.6	413.2	134.4	742.1
40°	337.7	347.1	337.5	327.0	327.2	315.0	300.9	115.9	857.9
45°	183.5	191.6	192.8	192.4	185.5	172.4	164.1	71.6	929.5
50°	72.2	76.5	81.6	85.0	79.2	72.7	70.3	32.6	962.2
55°	28.9	31.6	36.0	41.5	36.6	30.9	28.5	15.4	977.5
60°	17.8	18.8	20.5	22.6	20.4	18.4	17.4	9.4	986.9
65°	11.5	12.0	12.6	12.8	12.4	11.7	11.3	6.0	992.9
70°	7.8	8.1	7.5	7.2	7.4	7.8	7.7	3.9	996.9
75°	3.2	3.4	3.7	3.8	3.8	3.6	3.3	1.9	998.8
80°	1.5	1.5	1.5	1.6	1.6	1.6	1.6	0.8	999.6
85°	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.4	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>51MX6MDS44W</b> EAN: <b>4058352881040</b>	LP number <b>59267_172</b>
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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	19.4	20.7	19.7	21.0	21.3	19.0	20.3	19.4	20.7	21.0
	3H	19.3	20.5	19.7	20.8	21.1	19.0	20.1	19.3	20.5	20.8
	4H	19.3	20.3	19.7	20.7	21.0	18.9	20.0	19.3	20.3	20.7
	6H	19.2	20.2	19.6	20.5	20.9	18.9	19.8	19.3	20.2	20.6
	8H	19.2	20.1	19.7	20.5	20.9	18.9	19.7	19.3	20.1	20.5
	12H	19.2	20.0	19.6	20.4	20.8	18.9	19.7	19.3	20.0	20.5
4H	2H	19.2	20.3	19.6	20.7	21.0	18.9	20.0	19.3	20.3	20.7
	3H	19.2	20.0	19.6	20.4	20.9	18.8	19.7	19.3	20.1	20.5
	4H	19.1	19.9	19.6	20.3	20.7	18.8	19.6	19.2	20.0	20.4
	6H	19.0	19.7	19.5	20.1	20.6	18.7	19.4	19.2	19.8	20.3
	8H	19.0	19.6	19.5	20.0	20.5	18.7	19.3	19.2	19.7	20.2
	12H	19.0	19.5	19.5	20.0	20.5	18.7	19.2	19.2	19.6	20.1
8H	4H	19.0	19.6	19.5	20.0	20.5	18.7	19.3	19.2	19.7	20.2
	6H	18.9	19.4	19.4	19.9	20.4	18.6	19.1	19.1	19.6	20.1
	8H	18.9	19.3	19.4	19.8	20.3	18.6	19.0	19.1	19.5	20.0
	12H	18.9	19.2	19.4	19.7	20.2	18.5	18.9	19.1	19.4	19.9
12H	4H	19.0	19.5	19.5	20.0	20.5	18.7	19.2	19.2	19.6	20.1
	6H	18.9	19.3	19.4	19.8	20.3	18.6	19.0	19.1	19.5	20.0
	8H	18.9	19.2	19.4	19.7	20.2	18.5	18.9	19.1	19.4	19.9

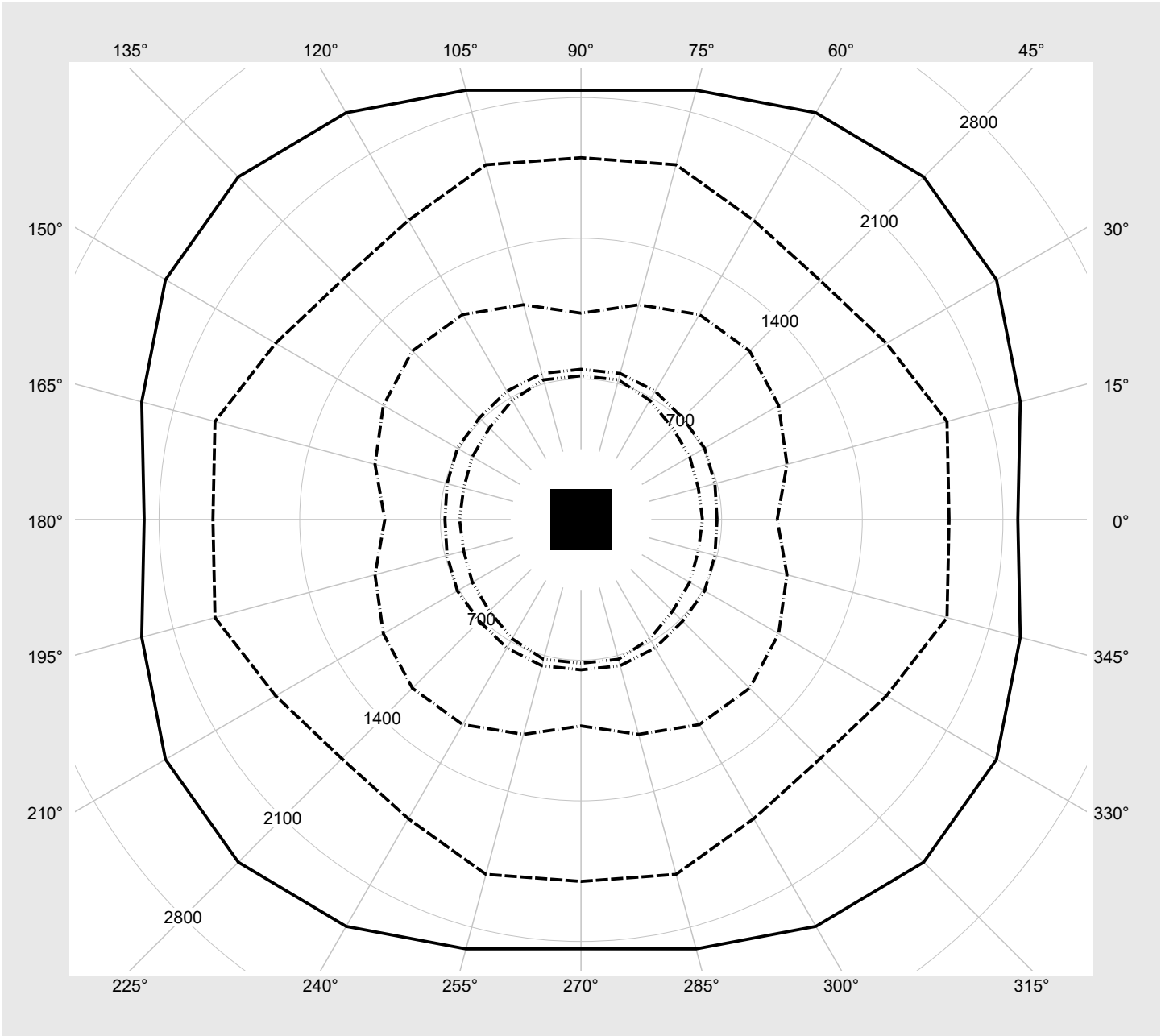
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 294</b> <b>B = 196</b>
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		20713.6	21632.0	21762.3	21725.0	20936.9	19459.5	18524.3	
50°		8967.0	9496.8	10130.9	10561.6	9836.7	9029.9	8736.3	
55°		4028.4	4400.3	5014.6	5776.5	5091.9	4304.7	3962.7	
60°		2838.0	2995.1	3273.4	3602.5	3261.9	2941.7	2783.6	
65°		2174.1	2263.5	2387.9	2411.9	2338.1	2212.5	2136.7	
70°		1832.0	1885.9	1754.9	1683.3	1719.2	1828.2	1801.2	
75°		976.5	1061.3	1136.0	1186.8	1178.2	1107.0	1027.4	
80°		677.2	690.0	710.3	715.3	737.8	753.0	747.9	
85°		604.5	604.5	624.7	644.8	685.1	719.9	715.3	

**Photometric test report**

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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

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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	27.2
95	240	252	4365	25.8
90	227	250	4144	24.5
85	213	248	3903	23.0
80	200	245	3679	21.7
75	187	243	3452	20.4
70	174	240	3224	19.1
65	161	237	2994	17.8
60	148	234	2760	16.4
55	135	231	2526	15.2
50	123	227	2308	13.9
45	110	223	2071	12.6
40	97	219	1831	11.2
35	85	214	1607	10.0
30	73	208	1383	8.7
25	61	202	1157	7.5
20	48	193	912	6.2
15	36	182	684	5.1
10	24	168	453	3.9
5	12	142	222	2.8
2	5	110	87	2.0