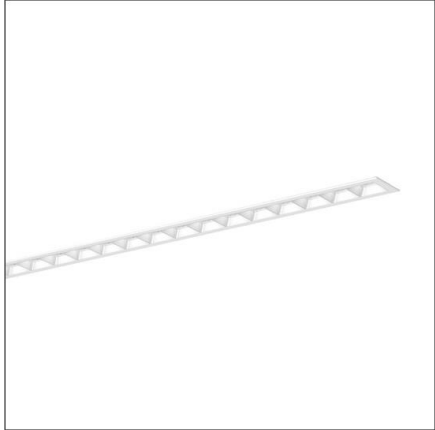
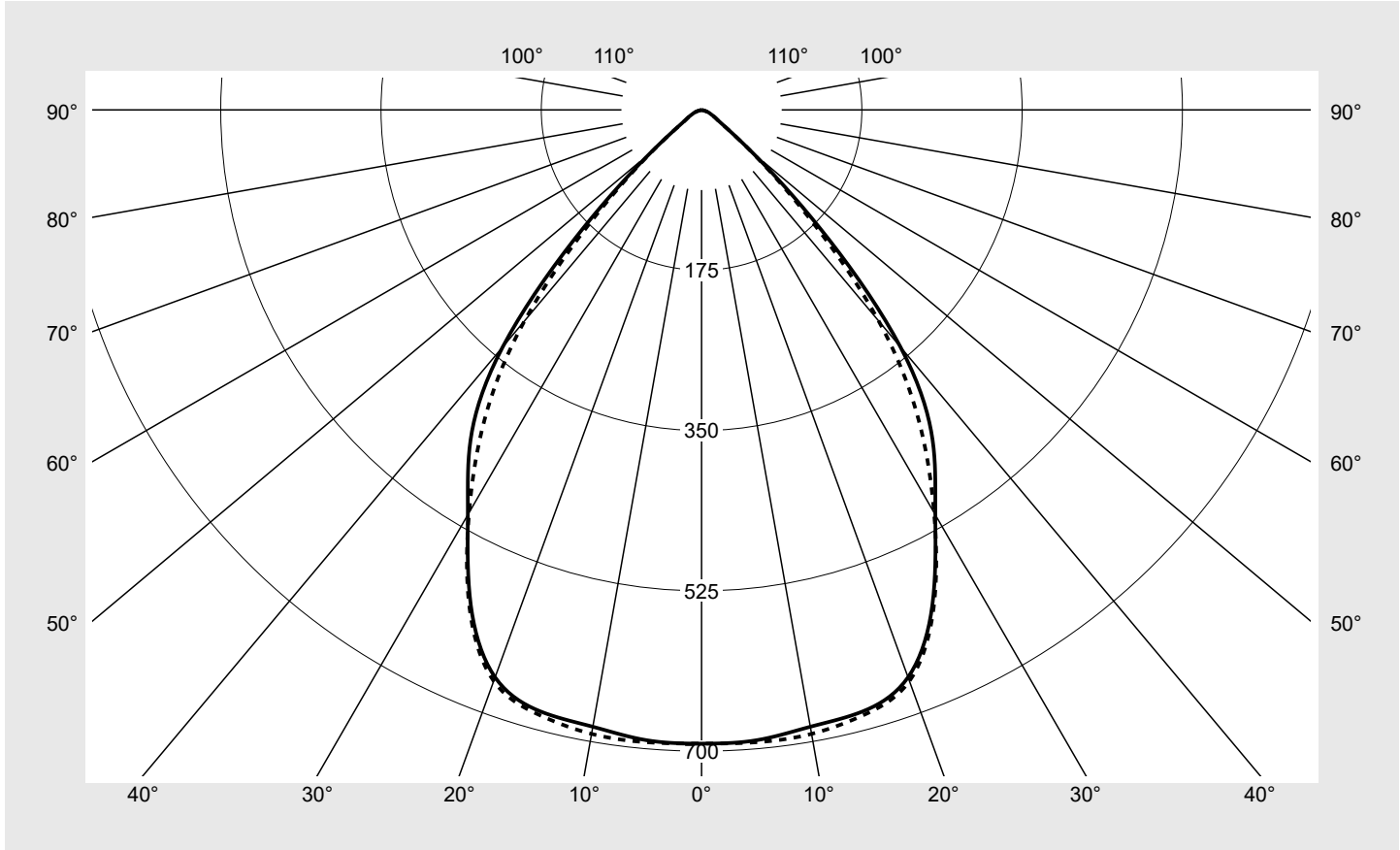


# Photometric test report

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX16DB35WB</b> <b>EAN: 4058352907603</b>	<b>LP number</b> <b>59267_153</b>
	<b>Version</b> recessed luminaire, reflector, white, direct distribution, wide distribution, UGR≤19 (L65≤3000cd/m²)	<b>serial documentation</b> <b>02.08.2023</b>
	<b>Lamps</b> LED 3000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 5400 lm Power consumption = 31.4 W Luminous efficacy = 172 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

Family <b>Silica® 21</b>	Order number: <b>51MX16DB35WB</b> EAN: <b>4058352907603</b>	LP number <b>59267_153</b>
Table of values for luminous intensities		Maximum luminous intensity
		<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°	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>51MX16DB35WB</b> EAN: <b>4058352907603</b>	LP number <b>59267_153</b>
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UGR-Table	Standard room	<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	19.5	20.8	21.1	18.8	20.1	19.2	20.4	20.8
	3H	19.1	20.2	19.5	20.6	20.9	18.7	19.9	19.1	20.2	20.6
	4H	19.0	20.1	19.4	20.4	20.8	18.7	19.8	19.1	20.1	20.5
	6H	19.0	19.9	19.4	20.3	20.7	18.6	19.6	19.1	20.0	20.4
	8H	19.0	19.9	19.5	20.2	20.6	18.7	19.5	19.1	19.9	20.3
	12H	19.0	19.8	19.4	20.2	20.6	18.7	19.4	19.1	19.8	20.2
4H	2H	19.0	20.1	19.4	20.4	20.8	18.7	19.7	19.1	20.1	20.5
	3H	19.0	19.8	19.4	20.2	20.6	18.6	19.5	19.1	19.9	20.3
	4H	18.9	19.7	19.3	20.1	20.5	18.6	19.3	19.0	19.8	20.2
	6H	18.8	19.5	19.3	19.9	20.4	18.5	19.2	19.0	19.6	20.1
	8H	18.8	19.4	19.3	19.8	20.3	18.5	19.1	18.9	19.5	20.0
	12H	18.8	19.3	19.3	19.7	20.2	18.5	19.0	19.0	19.4	19.9
8H	4H	18.8	19.4	19.3	19.8	20.3	18.5	19.1	18.9	19.5	20.0
	6H	18.7	19.2	19.2	19.7	20.2	18.4	18.9	18.9	19.3	19.9
	8H	18.7	19.1	19.2	19.6	20.1	18.3	18.8	18.8	19.3	19.8
	12H	18.6	19.0	19.2	19.5	20.0	18.3	18.7	18.8	19.2	19.7
12H	4H	18.8	19.3	19.3	19.7	20.2	18.5	19.0	19.0	19.4	19.9
	6H	18.7	19.1	19.2	19.6	20.1	18.4	18.8	18.9	19.2	19.8
	8H	18.6	19.0	19.2	19.5	20.0	18.3	18.7	18.8	19.2	19.7

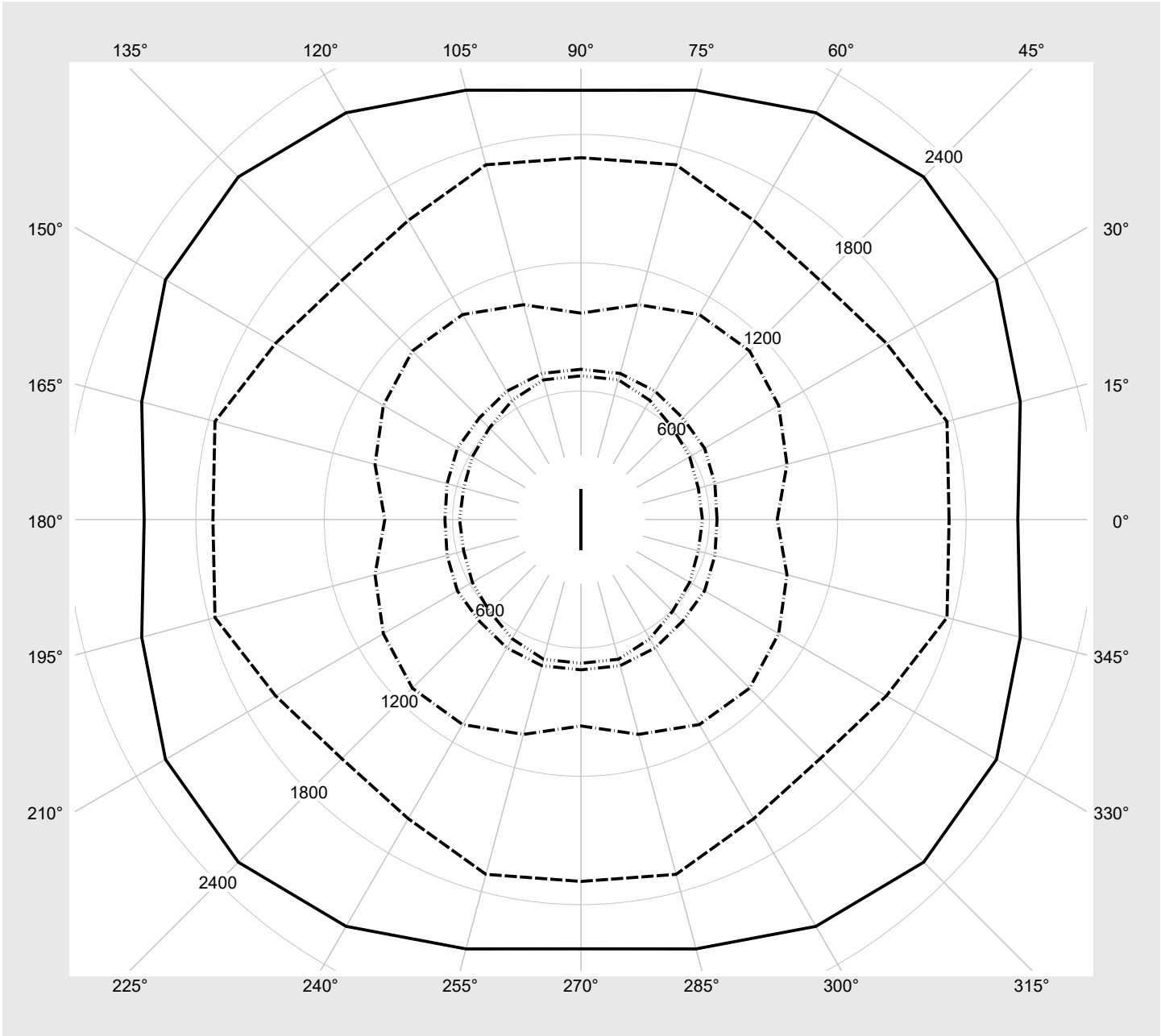
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1470 B = 49
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		19452.8	20315.3	20437.6	20402.6	19662.5	18275.0	17396.7	
50°		8421.2	8918.7	9514.3	9918.7	9238.0	8480.2	8204.5	
55°		3783.2	4132.5	4709.4	5424.9	4781.9	4042.7	3721.5	
60°		2665.3	2812.8	3074.2	3383.2	3063.4	2762.6	2614.2	
65°		2041.8	2125.7	2242.6	2265.1	2195.7	2077.8	2006.6	
70°		1720.5	1771.1	1648.1	1580.8	1614.6	1716.9	1691.5	
75°		917.1	996.7	1066.8	1114.6	1106.5	1039.6	964.8	
80°		635.9	648.0	667.0	671.8	692.9	707.2	702.4	
85°		567.7	567.7	586.6	605.6	643.4	676.1	671.8	

**Photometric test report**

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX16DB35WB</b> <b>EAN: 4058352907603</b>	<b>LP number</b> <b>59267_153</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

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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	5400	31.4
95	241	252	5138	29.7
90	227	250	4855	28.0
85	214	248	4591	26.3
80	201	245	4325	24.8
75	188	243	4057	23.1
70	175	240	3787	21.5
65	162	238	3516	19.9
60	149	234	3242	18.3
55	136	231	2966	16.8
50	124	228	2710	15.4
45	111	224	2431	13.8
40	98	219	2151	12.2
35	86	214	1891	10.8
30	74	209	1630	9.5
25	61	202	1345	8.0
20	49	194	1081	6.7
15	37	183	814	5.3
10	25	169	547	3.9
5	13	145	280	2.4
3	8	127	167	1.5