

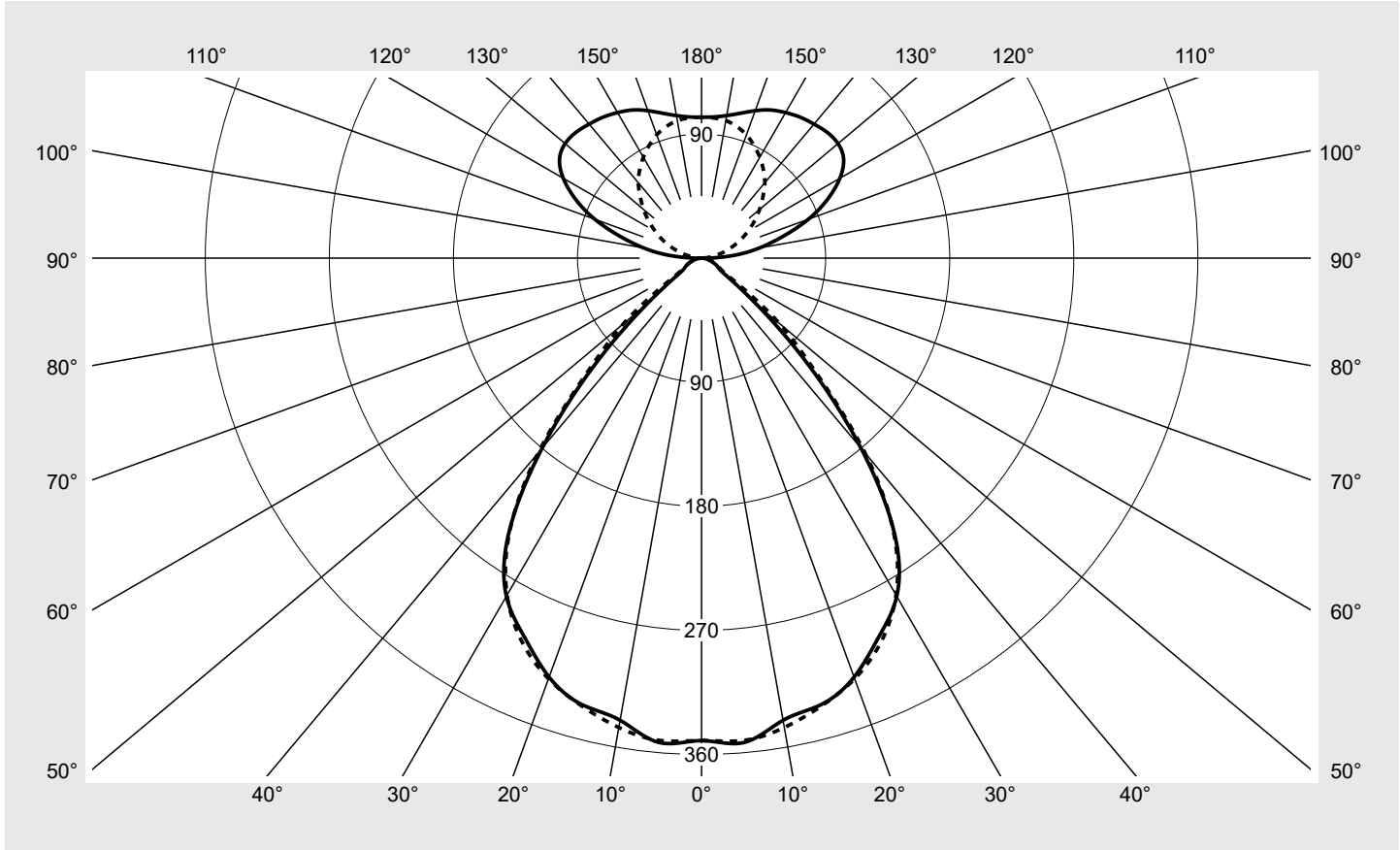


# Photometric test report

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX33DA47BB</b> <b>EAN: 4058352888926</b>	<b>LP number</b> <b>59331_89</b>
	<b>Version</b> Suspended luminaire, with homogeneous illumination, prismatic cover, direct-/ indirect distribution, extremely wide distribution, UGR≤16 (L65≤3000cd/m²)  <b>Lamps</b> LED 4000 K   CRI ≥ 80  <b>Controlgear</b> ECG-DALI  <b>Rated values</b> Net luminous flux = 5910 lm Power consumption = 38.4 W Luminous efficacy = 153.9 lm/W	<b>serial documentation</b> <b>02.08.2023</b>  

**Luminous intensity in cd/klm**    C180-0    C270-90    **Imax: 353 cd/klm**



Classifications	
DIN 5040	C 6 2
CIE	N1=78 N2=96 N3=99 N4=55 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	55.4%
$\phi_o$	44.6%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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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°	349.9	349.9	349.9	349.9	349.9	349.9	349.9	2.1	2.1
5°	352.7	353.3	353.1	353.3	352.9	352.0	351.1	16.9	18.9
10°	340.4	339.5	339.7	341.6	345.2	345.5	345.7	32.6	51.5
15°	335.2	334.1	331.5	331.4	333.4	336.4	336.2	47.3	98.9
20°	323.4	322.7	318.7	319.6	318.0	320.3	324.7	60.1	159.0
25°	303.6	304.4	302.2	302.2	302.6	302.3	307.6	70.2	229.2
30°	283.2	283.0	279.5	280.9	281.3	280.3	282.2	77.1	306.3
35°	244.1	243.6	241.2	242.6	243.2	242.2	242.9	76.3	382.6
40°	179.9	179.6	180.9	182.1	183.5	183.3	184.4	64.1	446.7
45°	110.1	109.9	111.2	112.6	113.8	115.2	117.5	43.7	490.4
50°	51.7	59.9	67.3	61.6	55.5	66.0	73.6	26.1	516.5
55°	21.0	28.2	26.7	30.5	23.0	31.8	29.6	12.4	528.9
60°	14.1	14.7	15.5	14.4	14.4	15.4	16.1	7.1	536.0
65°	11.6	11.5	12.0	11.7	12.2	12.2	12.1	5.9	541.9
70°	8.4	8.6	8.9	8.9	9.1	9.2	9.2	4.6	546.5
75°	5.8	6.1	6.7	6.4	6.5	6.9	6.6	3.4	549.9
80°	3.5	3.8	4.1	4.5	4.2	4.7	4.7	2.3	552.2
85°	1.8	1.8	1.8	2.1	2.2	2.5	2.7	1.2	553.3
90°	5.2	5.0	5.3	5.2	3.1	1.1	0.4	2.0	555.4
95°	23.9	24.4	26.2	24.8	15.9	8.2	4.2	10.3	565.7
100°	42.8	43.9	44.3	38.8	26.0	14.7	9.7	17.5	583.2
105°	61.3	62.6	61.4	52.4	35.9	22.2	16.3	24.1	607.3
110°	82.4	82.7	77.5	64.5	46.0	30.0	23.3	30.4	637.7
115°	100.7	99.8	92.0	75.7	55.8	37.9	31.1	35.4	673.0
120°	115.9	114.0	103.9	84.8	64.9	45.6	38.7	38.8	711.8
125°	125.7	122.3	111.1	93.1	72.6	52.9	46.8	40.3	752.1
130°	129.2	126.3	114.5	98.0	78.5	60.4	54.8	39.9	792.0
135°	129.0	126.3	115.8	101.3	83.2	67.4	62.9	38.1	830.1
140°	126.9	124.9	116.2	103.6	87.1	74.0	71.4	35.5	865.6
145°	124.8	123.4	116.1	105.0	90.7	80.2	78.2	32.3	897.9
150°	121.9	121.3	114.8	104.9	93.7	86.1	84.5	28.5	926.4
155°	118.5	118.2	111.9	104.4	96.0	91.3	90.1	24.2	950.6
160°	113.8	113.5	108.5	103.6	98.0	95.4	95.1	19.5	970.1
165°	108.8	108.2	105.6	102.3	100.0	98.6	98.8	14.6	984.7
170°	105.0	104.5	103.8	102.4	101.4	101.2	101.3	9.8	994.5
175°	102.8	102.7	102.1	101.9	102.0	102.0	102.0	4.9	999.4
180°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	0.6	1000.0

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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	15.4	16.3	16.3	17.2	18.3	15.6	16.5	16.5	17.4	18.5
	3H	15.3	16.1	16.2	17.0	18.1	15.6	16.3	16.5	17.2	18.4
	4H	15.3	16.0	16.2	16.9	18.1	15.6	16.3	16.5	17.2	18.4
	6H	15.2	15.8	16.1	16.8	18.0	15.5	16.2	16.5	17.1	18.3
	8H	15.1	15.7	16.1	16.7	17.9	15.4	16.0	16.4	17.0	18.2
	12H	15.0	15.6	16.0	16.5	17.8	15.5	16.0	16.4	16.9	18.2
4H	2H	15.2	15.9	16.1	16.8	17.9	15.3	16.0	16.2	16.9	18.1
	3H	15.2	15.7	16.1	16.7	17.9	15.4	15.9	16.3	16.9	18.1
	4H	15.2	15.7	16.1	16.6	17.9	15.4	15.9	16.4	16.9	18.1
	6H	15.1	15.6	16.1	16.6	17.8	15.5	15.9	16.4	16.9	18.1
	8H	15.1	15.5	16.1	16.5	17.8	15.5	15.9	16.5	16.9	18.1
	12H	15.0	15.4	16.0	16.4	17.7	15.5	15.8	16.5	16.8	18.1
8H	4H	15.0	15.4	16.0	16.4	17.7	15.2	15.6	16.2	16.6	17.9
	6H	15.1	15.5	16.1	16.4	17.7	15.4	15.7	16.4	16.7	18.0
	8H	15.1	15.4	16.1	16.4	17.7	15.5	15.8	16.5	16.8	18.1
	12H	15.1	15.3	16.1	16.3	17.7	15.5	15.8	16.6	16.8	18.1
12H	4H	15.0	15.3	16.0	16.3	17.6	15.1	15.5	16.2	16.5	17.8
	6H	15.1	15.3	16.1	16.3	17.6	15.3	15.6	16.3	16.6	17.9
	8H	15.1	15.3	16.1	16.3	17.6	15.4	15.7	16.4	16.7	18.0

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1200</b> <b>B = 50</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°		15337.5	15304.3	15496.3	15678.9	15848.6	16051.1	16365.1	
50°		7920.8	9176.2	10319.4	9444.3	8511.2	10108.4	11284.7	
55°		3601.3	4851.2	4582.4	5234.8	3953.7	5459.5	5074.6	
60°		2787.2	2892.4	3057.4	2834.0	2844.5	3025.1	3162.0	
65°		2707.8	2686.6	2794.5	2726.0	2841.6	2837.4	2825.1	
70°		2422.6	2467.8	2567.8	2567.8	2608.1	2638.0	2641.2	
75°		2224.5	2308.9	2544.5	2430.0	2485.9	2613.0	2527.4	
80°		2009.2	2128.3	2347.2	2554.8	2369.9	2643.9	2654.7	
85°		1984.6	1997.0	2072.7	2395.9	2519.1	2872.9	2994.9	

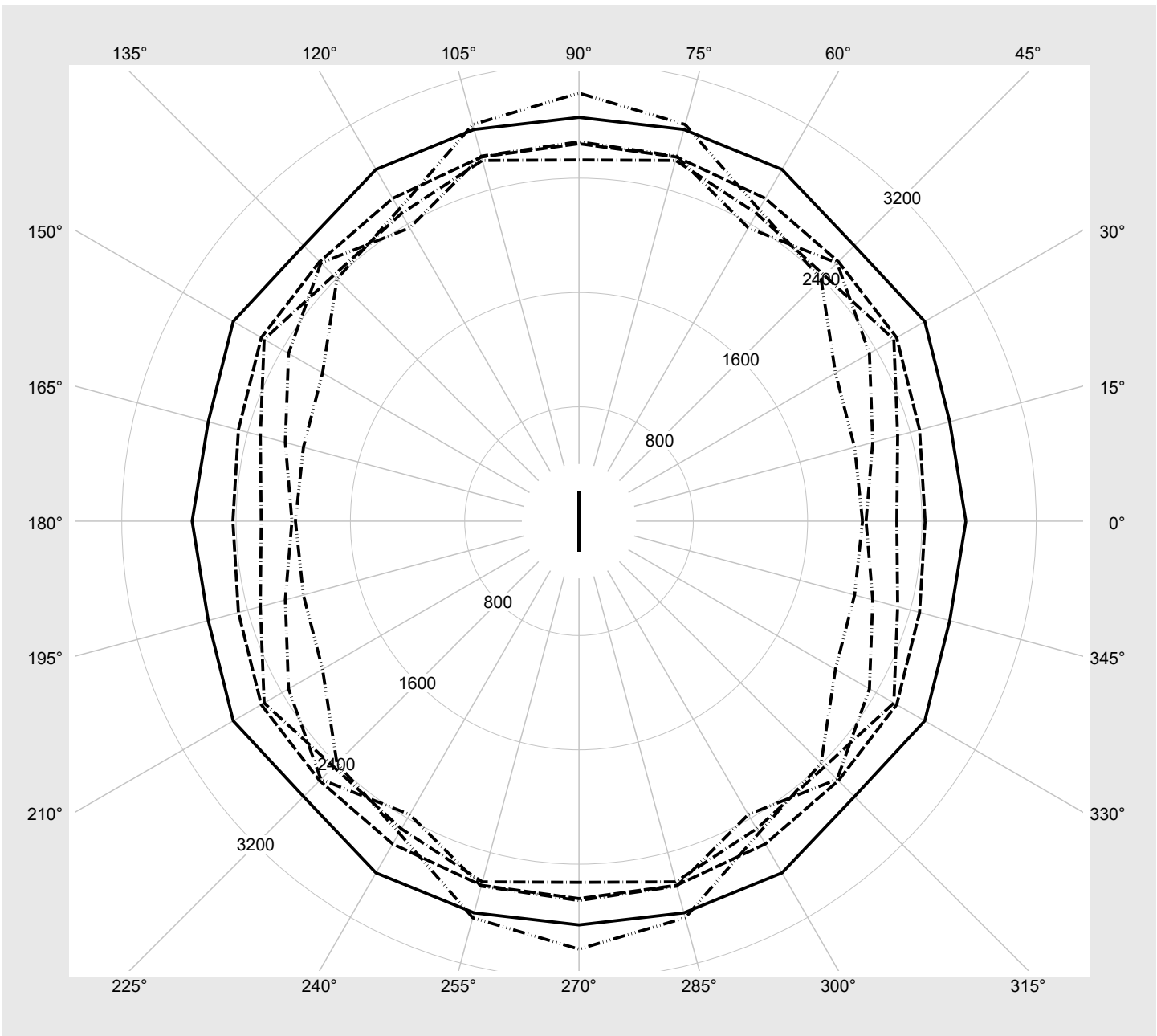
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**Family**  
Silica® 21

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**EAN: 4058352888926**

**LP number**  
59331\_89

**Luminance values in cd/m<sup>2</sup>**     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	5910	38.4
95	241	252	5621	36.4
90	228	250	5330	34.4
85	214	248	5015	32.4
80	201	245	4721	30.4
75	188	243	4426	28.5
70	175	240	4129	26.5
65	162	238	3830	24.5
60	150	235	3553	22.9
55	137	231	3252	21.1
50	124	228	2948	19.4
45	112	224	2668	17.7
40	99	219	2361	15.8
35	87	215	2077	14.0
30	74	209	1767	12.1
25	62	202	1481	10.3
20	49	194	1170	8.4
15	37	183	882	6.6
10	25	169	592	4.7
6	14	148	326	2.9