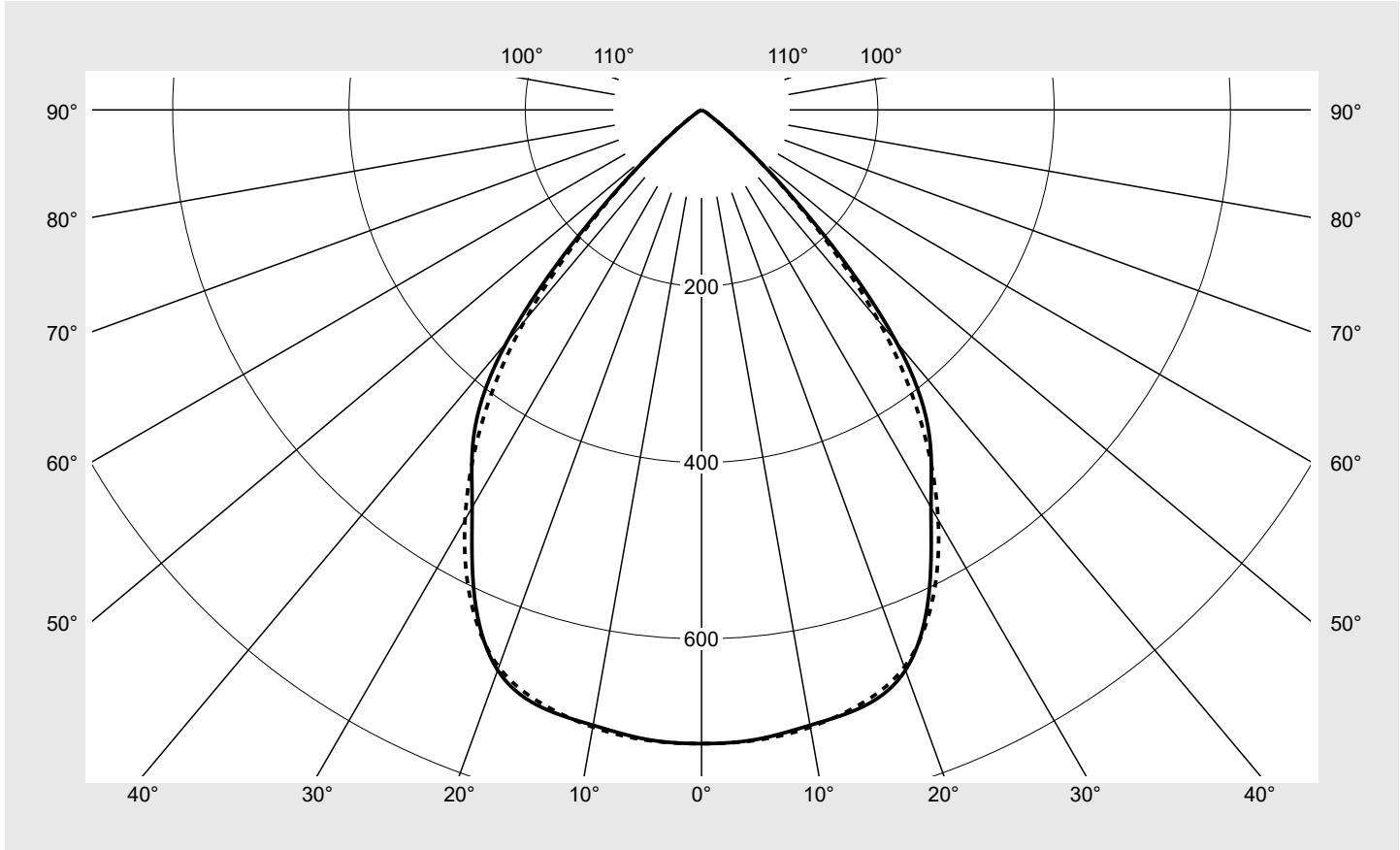


# Photometric test report

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX22DC4AWB</b> <b>EAN: 4058352902424</b>	<b>LP number</b> <b>59266_152</b>
	<b>Version</b> surface-mounted luminaire, reflector, black, direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²)	<b>serial documentation</b> <b>02.08.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 10800 lm Power consumption = 64.7 W Luminous efficacy = 166.9 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>
		<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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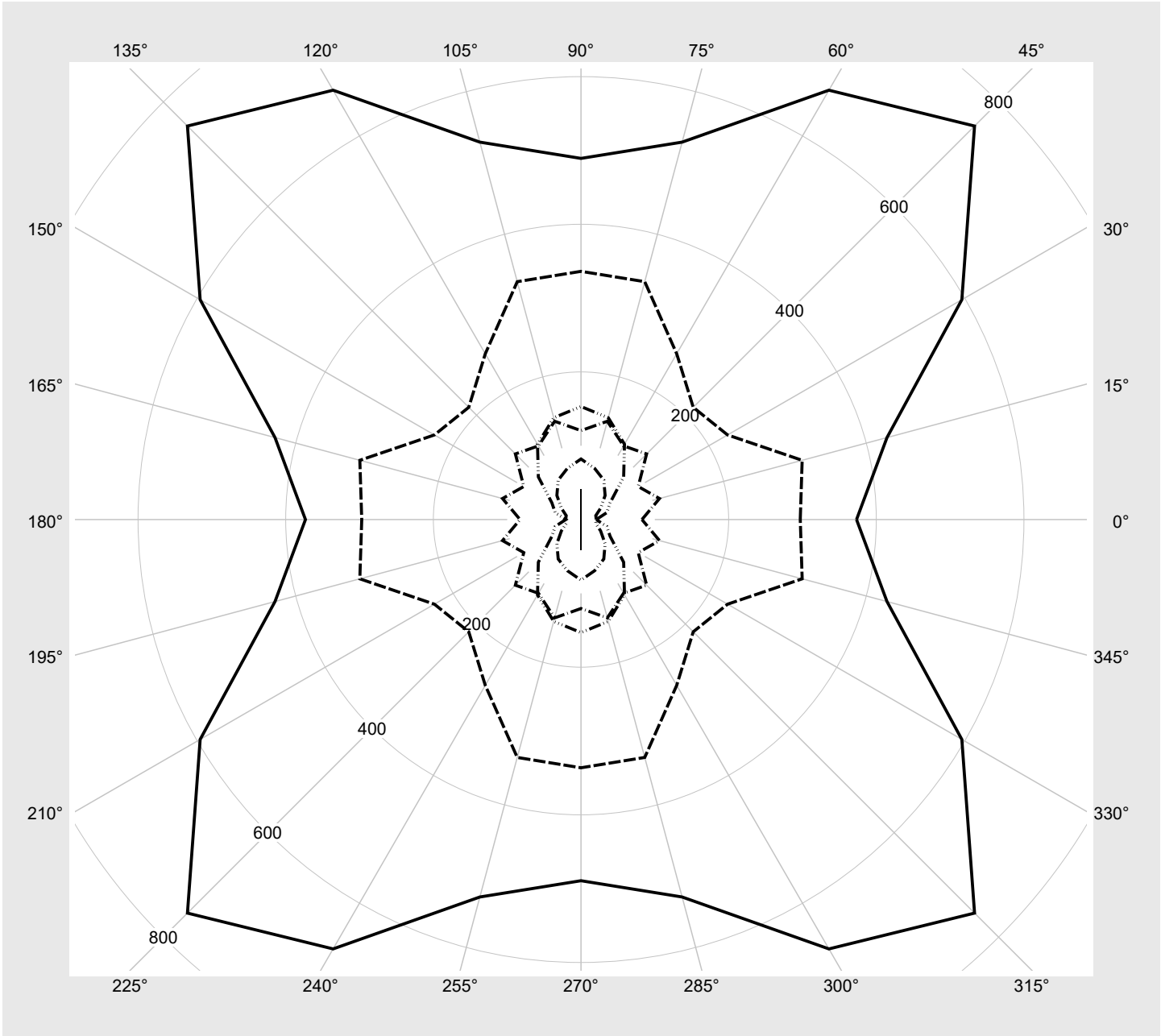
UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	19.0	20.3	19.4	20.6	21.0	18.9	20.2	19.2	20.5	20.8
	3H	18.9	20.0	19.3	20.4	20.7	18.7	19.9	19.1	20.2	20.6
	4H	18.8	19.9	19.2	20.2	20.6	18.7	19.7	19.1	20.1	20.4
	6H	18.8	19.7	19.2	20.1	20.5	18.6	19.5	19.0	19.9	20.3
	8H	18.8	19.6	19.2	20.0	20.4	18.6	19.4	19.1	19.8	20.2
	12H	18.8	19.5	19.2	19.9	20.3	18.6	19.4	19.0	19.7	20.2
4H	2H	18.9	19.9	19.3	20.2	20.6	18.7	19.7	19.1	20.1	20.4
	3H	18.7	19.5	19.1	19.9	20.4	18.5	19.4	19.0	19.8	20.2
	4H	18.6	19.4	19.1	19.8	20.2	18.4	19.2	18.9	19.6	20.0
	6H	18.5	19.2	19.0	19.6	20.1	18.4	19.0	18.8	19.4	19.9
	8H	18.5	19.1	19.0	19.5	20.0	18.3	18.9	18.8	19.3	19.8
	12H	18.5	19.0	19.0	19.4	19.9	18.3	18.8	18.8	19.2	19.7
8H	4H	18.5	19.1	19.0	19.5	20.0	18.3	18.9	18.8	19.3	19.8
	6H	18.4	18.8	18.9	19.3	19.8	18.2	18.7	18.7	19.2	19.7
	8H	18.3	18.7	18.8	19.2	19.8	18.2	18.6	18.7	19.1	19.6
	12H	18.3	18.6	18.8	19.1	19.7	18.1	18.5	18.7	19.0	19.5
12H	4H	18.5	19.0	19.0	19.4	19.9	18.3	18.8	18.8	19.2	19.7
	6H	18.4	18.7	18.9	19.2	19.8	18.2	18.6	18.7	19.1	19.6
	8H	18.3	18.6	18.8	19.1	19.7	18.1	18.5	18.7	19.0	19.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 2940 B = 49	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
$\gamma$	Luminance in cd/m <sup>2</sup>						
45°	18893.8	19639.4	20224.8	20378.7	19816.4	18686.5	17719.1
50°	6967.4	7515.8	8602.9	9174.9	8765.7	7944.9	7434.7
55°	2040.2	2416.2	3223.4	4082.0	3422.4	2643.9	2274.9
60°	914.5	1022.3	1370.7	1828.8	1475.1	1154.2	1044.6
65°	373.2	429.1	595.7	753.9	671.6	529.3	489.2
70°	297.0	310.2	229.3	215.0	259.3	333.6	336.2
75°	82.6	110.1	89.5	125.7	115.3	137.9	120.5
80°	20.7	20.7	30.7	46.2	61.7	71.7	82.0
85°	20.6	36.1	45.6	81.7	117.8	142.8	153.1

**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**



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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	10800	64.7
95	241	252	10278	61.5
90	227	250	9708	58.0
85	214	248	9179	54.9
80	201	245	8646	51.7
75	188	243	8110	48.5
70	175	240	7570	45.3
65	162	238	7026	42.2
60	149	234	6478	39.1
55	136	231	5925	35.9
50	124	228	5414	33.0
45	111	224	4857	29.8
40	99	219	4340	26.9
35	86	214	3777	23.9
30	74	209	3254	21.1
25	61	202	2685	18.0
20	49	194	2158	15.1
15	37	183	1625	12.1
10	25	169	1093	9.3
5	13	145	558	5.9
3	8	127	335	4.1