

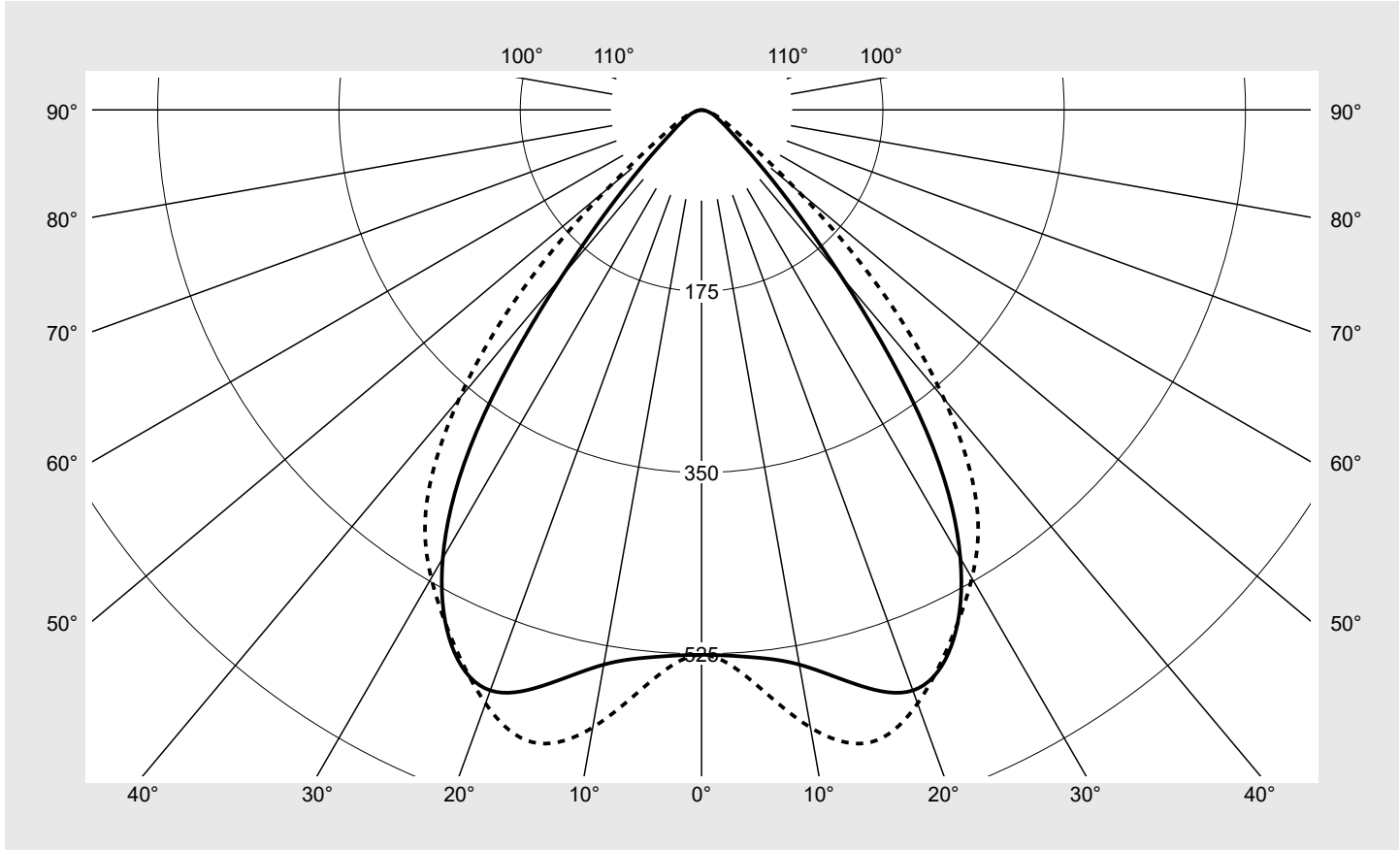


# Photometric test report

<b>Family</b> <b>Silica®</b>	<b>Order number: 5MX21BD1E4A</b> <b>EAN: 4058352305331</b>	<b>LP number</b> <b>58997_2</b>
	<b>Version</b> surface-mounted and suspended luminaire, Combined lens and reflector optics, frosted cover, direct distribution, UGR≤19 (L65≤3000cd/m²)	<b>serial documentation</b> 07.10.2020
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG-DALI	
	<b>Rated values</b> Net luminous flux = 4950 lm Power consumption = 29.3 W Luminous efficacy = 168.9 lm/W	

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 653 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=82 N2=97 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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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°	525.9	525.9	525.9	525.9	525.9	525.9	525.9	3.1	3.1
5°	530.1	532.1	531.7	539.8	547.4	550.9	553.0	25.8	29.0
10°	543.6	552.3	561.3	580.0	594.8	602.1	605.3	55.0	83.9
15°	573.7	588.4	603.0	623.3	632.9	632.0	631.7	87.1	171.0
20°	596.3	620.1	639.0	641.8	629.5	614.8	609.6	117.1	288.1
25°	570.6	616.7	653.0	638.7	597.2	573.3	567.1	140.8	429.0
30°	499.6	560.3	609.4	604.2	567.1	527.4	521.8	154.4	583.3
35°	378.2	424.0	476.5	520.1	513.0	469.3	462.5	147.9	731.2
40°	210.0	238.9	292.3	362.7	384.1	367.3	364.2	113.5	844.7
45°	100.2	117.8	146.5	199.3	232.4	237.2	242.0	71.3	916.1
50°	49.1	55.7	69.4	82.4	93.7	107.9	119.5	34.5	950.6
55°	30.0	32.2	36.5	41.6	42.2	47.4	55.6	18.2	968.7
60°	20.2	21.0	22.3	23.8	24.3	28.1	32.8	11.6	980.3
65°	14.7	14.9	15.1	15.2	15.9	19.0	21.0	8.1	988.4
70°	10.4	10.5	10.3	10.1	10.5	12.3	12.9	5.6	994.0
75°	6.2	6.2	6.1	6.1	6.3	7.1	7.3	3.4	997.4
80°	3.3	3.3	3.3	3.3	3.4	3.8	3.9	1.9	999.3
85°	1.2	1.2	1.2	1.3	1.3	1.4	1.5	0.7	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

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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	17.4	18.7	17.7	19.0	19.3	19.2	20.5	19.5	20.8	21.1
	3H	17.4	18.5	17.7	18.9	19.2	19.2	20.4	19.6	20.7	21.0
	4H	17.3	18.4	17.7	18.8	19.2	19.2	20.2	19.6	20.6	21.0
	6H	17.3	18.3	17.7	18.7	19.1	19.1	20.1	19.5	20.5	20.9
	8H	17.4	18.2	17.8	18.6	19.0	19.2	20.0	19.6	20.4	20.8
	12H	17.3	18.2	17.8	18.6	19.0	19.2	20.0	19.6	20.3	20.8
4H	2H	17.3	18.4	17.7	18.7	19.1	19.0	20.1	19.4	20.5	20.9
	3H	17.3	18.2	17.7	18.6	19.0	19.0	19.9	19.5	20.3	20.8
	4H	17.3	18.1	17.8	18.5	19.0	19.0	19.8	19.5	20.2	20.7
	6H	17.3	18.0	17.8	18.4	18.9	19.0	19.7	19.5	20.1	20.6
	8H	17.3	17.9	17.7	18.3	18.8	19.0	19.6	19.5	20.0	20.5
	12H	17.3	17.8	17.8	18.3	18.8	19.0	19.5	19.5	20.0	20.5
8H	4H	17.2	17.9	17.7	18.3	18.8	18.9	19.6	19.4	20.0	20.5
	6H	17.2	17.7	17.7	18.2	18.7	18.9	19.4	19.4	19.9	20.4
	8H	17.2	17.6	17.7	18.1	18.7	18.9	19.3	19.4	19.8	20.3
	12H	17.2	17.6	17.7	18.1	18.6	18.9	19.2	19.4	19.7	20.3
12H	4H	17.3	17.8	17.8	18.2	18.7	18.9	19.5	19.4	19.9	20.4
	6H	17.2	17.6	17.7	18.1	18.6	18.9	19.3	19.4	19.8	20.3
	8H	17.2	17.6	17.7	18.1	18.6	18.9	19.2	19.4	19.7	20.3

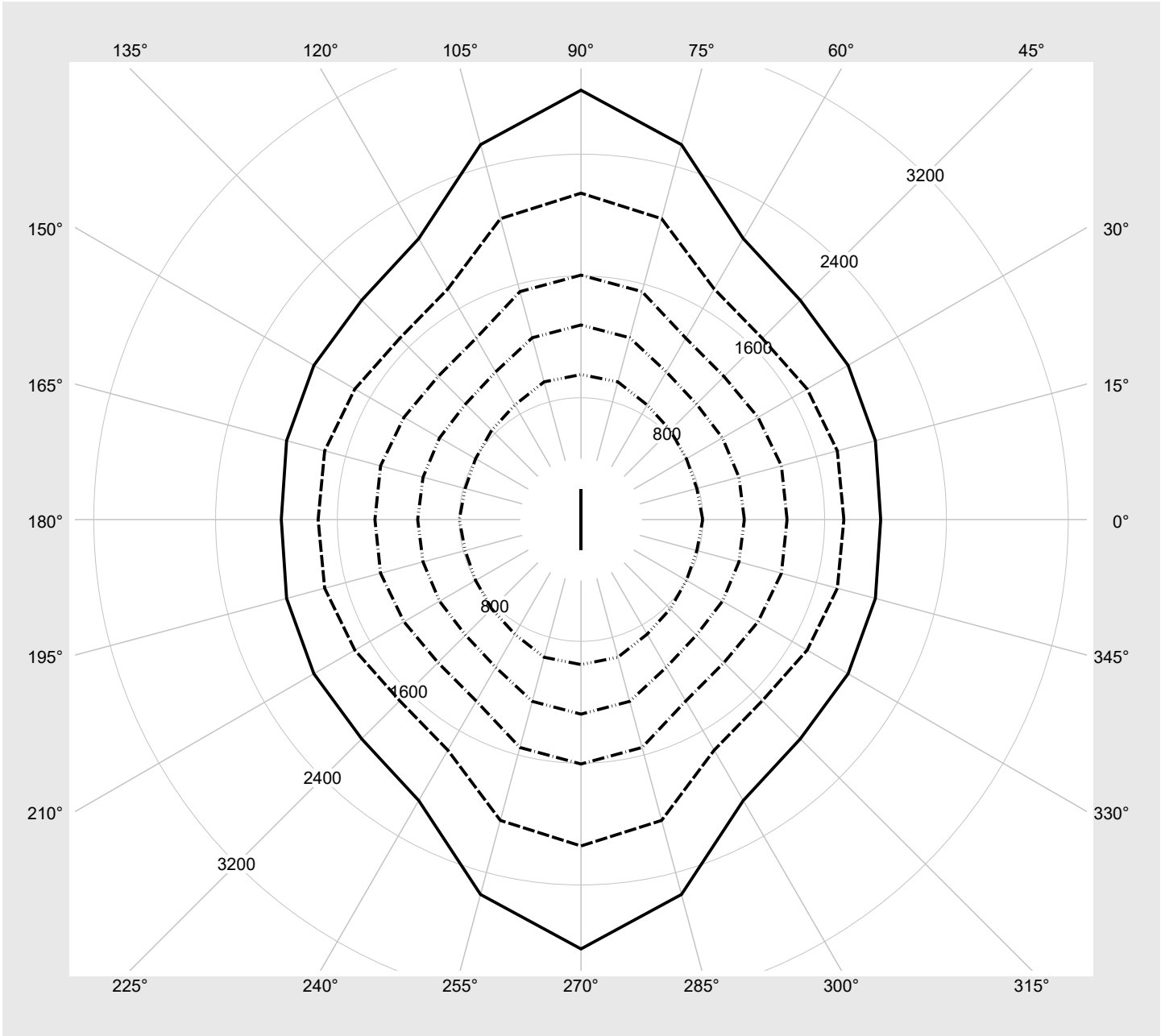
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1430</b> <b>B = 61</b>
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		8038.1	9456.8	11760.3	15995.8	18651.5	19037.9	19421.2	
50°		4334.1	4919.8	6128.1	7270.5	8268.0	9521.2	10551.0	
55°		2964.5	3189.3	3607.1	4115.5	4171.1	4693.7	5501.3	
60°		2293.7	2386.3	2529.1	2700.3	2761.4	3191.4	3721.3	
65°		1968.5	2001.8	2025.8	2037.1	2131.2	2549.5	2820.2	
70°		1726.5	1742.9	1715.2	1683.5	1749.2	2045.9	2144.0	
75°		1353.4	1362.9	1342.7	1328.4	1376.2	1549.9	1605.6	
80°		1072.9	1074.2	1072.9	1072.9	1120.6	1236.2	1278.1	
85°		799.5	787.8	799.5	829.5	869.2	936.3	952.5	

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**Luminance values in cd/m<sup>2</sup>**       $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°



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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	4950	29.3
95	241	252	4706	27.9
90	228	250	4462	26.4
85	215	248	4216	24.9
80	202	246	3969	23.5
75	189	243	3720	22.0
70	176	241	3470	20.6
65	163	238	3218	19.2
60	150	235	2965	17.8
55	138	232	2730	16.4
50	125	228	2475	15.1
45	113	224	2237	13.7
40	100	220	1978	12.4
35	88	215	1739	11.1
30	75	209	1477	9.7
25	63	203	1235	8.4
20	51	195	991	7.2
15	39	185	746	5.9
10	27	172	500	4.7
5	15	150	253	3.6
2	8	127	108	2.8