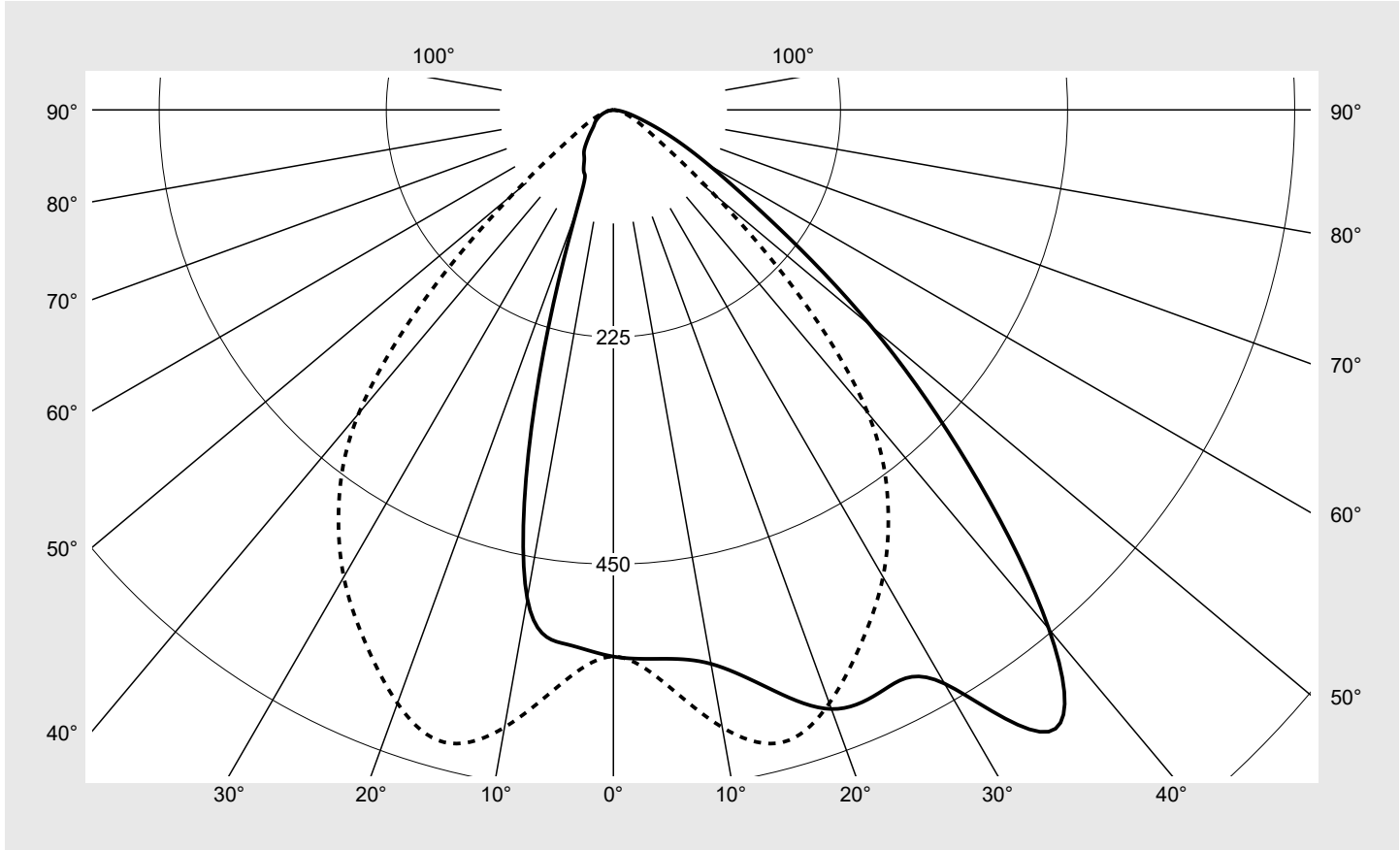


# Photometric test report

<b>Family</b> <b>Silica®</b> 	<b>Order number: 5MX12WD1W4A</b> <b>EAN: 4058352305324</b>	<b>LP number</b> <b>58998_3</b>
	<b>Version</b> recessed luminaire, Combined lens and reflector optics, frosted cover, asymmetric distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 4680 lm Power consumption = 29.3 W Luminous efficacy = 159.7 lm/W	<b>serial documentation</b> <b>07.10.2020</b>

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 801 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=70 N2=95 N3=99 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®</b>	Order number: <b>5MX12WD1W4A</b> EAN: <b>4058352305324</b>	LP number <b>58998_3</b>
Table of values for luminous intensities		Maximum luminous intensity
<b>sITeco</b>		

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	Luminous intensity in cd/klm						
0°	541.5	541.5	541.5	541.5	541.5	541.5	541.5
5°	545.8	549.2	548.8	557.1	565.2	568.2	569.0
10°	557.2	567.2	576.8	597.3	613.2	620.3	621.1
15°	592.8	607.9	622.1	642.1	652.9	652.7	648.5
20°	631.6	654.2	664.3	662.2	649.1	634.8	625.5
25°	634.0	676.7	697.4	666.4	615.1	591.4	581.9
30°	656.3	708.6	702.0	649.6	587.9	544.1	534.3
35°	752.0	801.0	722.7	602.5	541.6	484.9	474.1
40°	671.4	751.4	746.7	574.9	441.6	401.4	392.5
45°	498.2	571.3	600.3	535.2	307.2	264.4	261.3
50°	333.3	371.4	413.7	399.2	187.4	126.0	130.0
55°	188.8	207.9	239.9	251.5	118.2	58.7	61.0
60°	109.1	117.1	120.8	114.0	59.4	36.7	36.6
65°	64.1	69.1	65.6	51.3	32.0	25.1	23.9
70°	33.8	36.4	34.9	27.1	19.5	16.6	15.0
75°	18.2	19.1	18.3	15.0	11.9	10.3	9.2
80°	8.9	9.1	8.9	7.5	6.2	5.6	5.0
85°	2.9	2.9	2.9	2.6	2.2	2.1	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## Photometric test report

<b>Family</b> <b>Silica®</b>	<b>Order number: 5MX12WD1W4A</b> <b>EAN: 4058352305324</b>	<b>LP number</b> <b>58998_3</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	541.5	541.5	541.5	541.5	541.5	541.5	3.2	3.2
5°	564.2	557.2	546.0	534.8	532.7	531.4	26.4	29.6
10°	611.5	594.0	563.6	527.5	503.9	491.5	54.9	84.5
15°	638.5	612.6	542.3	424.7	334.3	299.9	80.7	165.2
20°	613.1	560.3	354.7	177.2	119.7	107.1	95.1	260.3
25°	560.7	408.9	148.1	84.3	71.9	68.6	105.3	365.6
30°	496.7	222.2	79.4	62.0	59.2	57.7	114.3	479.8
35°	411.4	107.2	56.2	53.1	52.4	50.8	123.4	603.2
40°	296.0	59.7	43.9	45.9	43.1	40.9	121.9	725.1
45°	158.9	39.2	34.3	35.5	33.7	32.2	100.3	825.5
50°	69.1	28.8	26.9	27.0	25.9	25.8	69.5	894.9
55°	37.1	22.4	21.5	22.0	22.3	22.5	43.7	938.6
60°	25.4	17.6	17.5	18.4	18.8	18.9	25.6	964.2
65°	18.0	13.8	14.1	14.7	15.0	15.1	15.8	980.0
70°	12.1	10.5	10.5	10.9	11.3	11.3	9.8	989.8
75°	7.8	7.2	7.1	7.3	7.5	7.5	5.9	995.7
80°	4.4	4.1	4.1	4.2	4.3	4.3	3.1	998.8
85°	1.8	1.8	1.8	1.8	1.9	1.9	1.2	1000.0
90°	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	1000.0
100°	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	1000.0
110°	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	1000.0
120°	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	1000.0
130°	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	1000.0
140°	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	1000.0
150°	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	1000.0
160°	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	1000.0
170°	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	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

## Photometric test report

Family <b>Silica®</b>	Order number: <b>5MX12WD1W4A</b> EAN: <b>4058352305324</b>	LP number <b>58998_3</b>
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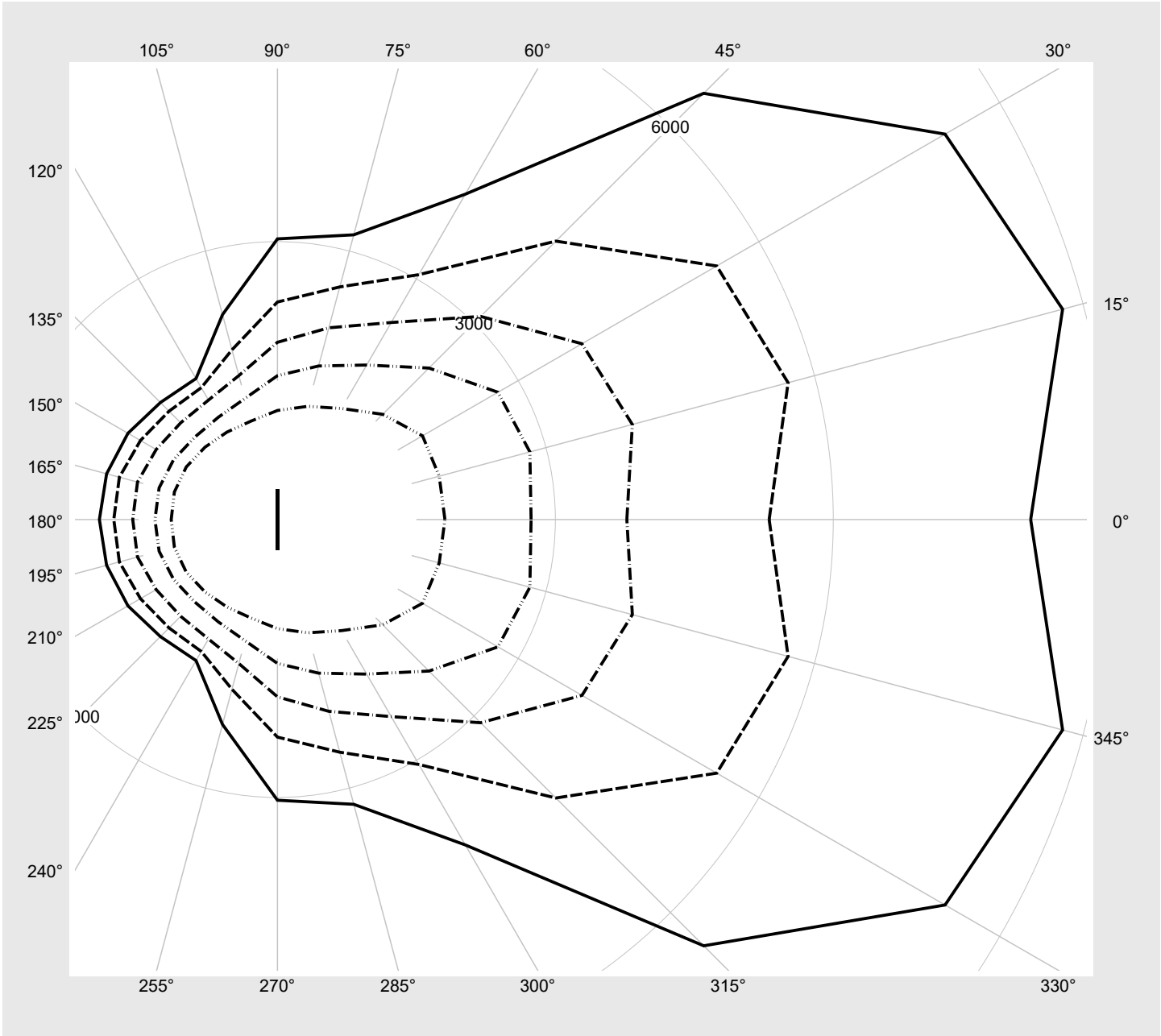
UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	25.2	26.6	25.5	26.9	27.2	19.7	21.1	20.0	21.4	21.7
	3H	25.2	26.5	25.6	26.8	27.2	19.7	20.9	20.1	21.3	21.6
	4H	25.2	26.4	25.6	26.8	27.1	19.7	20.8	20.1	21.2	21.6
	6H	25.2	26.3	25.6	26.6	27.0	19.7	20.7	20.1	21.1	21.5
	8H	25.2	26.2	25.6	26.6	27.0	19.7	20.7	20.1	21.0	21.4
	12H	25.2	26.1	25.7	26.5	26.9	19.6	20.6	20.1	21.0	21.4
4H	2H	25.1	26.3	25.5	26.7	27.0	20.0	21.2	20.4	21.5	21.9
	3H	25.3	26.2	25.7	26.6	27.0	20.0	21.0	20.5	21.4	21.8
	4H	25.3	26.1	25.7	26.5	27.0	20.0	20.9	20.5	21.3	21.7
	6H	25.2	26.0	25.7	26.4	26.9	20.0	20.8	20.5	21.2	21.7
	8H	25.2	25.9	25.7	26.3	26.8	20.0	20.7	20.5	21.1	21.6
	12H	25.2	25.8	25.7	26.3	26.7	20.0	20.6	20.5	21.0	21.5
8H	4H	25.2	25.9	25.7	26.3	26.8	20.0	20.7	20.5	21.1	21.6
	6H	25.2	25.7	25.7	26.2	26.7	20.0	20.6	20.5	21.0	21.5
	8H	25.1	25.6	25.6	26.1	26.6	20.0	20.5	20.5	21.0	21.5
	12H	25.1	25.5	25.6	26.0	26.6	20.0	20.4	20.5	20.9	21.4
12H	4H	25.2	25.7	25.6	26.2	26.7	20.0	20.6	20.5	21.0	21.5
	6H	25.1	25.6	25.6	26.1	26.6	20.0	20.5	20.5	20.9	21.5
	8H	25.1	25.5	25.6	26.0	26.6	20.0	20.4	20.5	20.9	21.4

Luminance table		Max. for $\gamma \geq 65^\circ$											Photometric dimensions in mm:		L = 1430 B = 61		
C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°				
$\gamma$	Luminance in cd/m <sup>2</sup>																
45°	37798.1	43350.7	45547.5	40606.2	23311.8	20058.0	19822.3	12053.9	2972.4	2603.7	2692.9	2553.4	2443.9				
50°	27822.9	30996.1	34526.5	33321.7	15641.6	10517.6	10846.9	5769.8	2406.2	2246.4	2254.1	2163.8	2153.3				
55°	17662.5	19444.4	22443.2	23526.4	11059.9	5493.4	5706.2	3472.9	2096.8	2008.8	2056.7	2087.3	2100.7				
60°	11703.1	12563.9	12962.0	12232.6	6370.2	3935.2	3930.7	2724.1	1891.1	1878.4	1975.8	2015.4	2027.9				
65°	8131.1	8774.6	8321.8	6507.4	4056.0	3182.4	3030.0	2290.6	1757.9	1786.7	1863.4	1909.2	1922.0				
70°	5308.0	5706.9	5475.2	4250.9	3052.9	2600.1	2348.6	1897.0	1644.3	1654.8	1707.5	1766.6	1766.6				
75°	3771.7	3966.3	3795.9	3101.7	2456.4	2143.2	1913.7	1609.2	1489.2	1477.0	1511.8	1564.0	1562.2				
80°	2738.1	2821.2	2748.6	2312.9	1926.4	1716.6	1553.2	1353.6	1275.7	1260.3	1293.9	1322.4	1322.4				
85°	1808.0	1808.0	1808.0	1606.7	1384.4	1265.6	1177.6	1100.7	1090.2	1105.6	1136.4	1151.7	1146.8				

**Photometric test report**

<b>Family</b> <b>Silica®</b>	<b>Order number: 5MX12WD1W4A</b> <b>EAN: 4058352305324</b>	<b>LP number</b> <b>58998_3</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

Family <b>Silica®</b>	Order number: <b>5MX12WD1W4A</b> EAN: <b>4058352305324</b>	LP number <b>58998_3</b>
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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	4680	29.3
95	241	252	4449	27.9
90	228	250	4219	26.4
85	215	248	3986	25.0
80	202	246	3752	23.5
75	189	243	3517	22.0
70	176	241	3280	20.6
65	163	238	3043	19.2
60	150	235	2804	17.8
55	138	232	2581	16.4
50	125	228	2340	15.1
45	113	224	2115	13.7
40	100	220	1870	12.4
35	88	215	1644	11.1
30	75	209	1397	9.7
25	63	203	1168	8.4
20	51	195	937	7.2
15	39	185	705	5.9
10	27	172	473	4.7
5	15	150	239	3.6
2	8	127	102	2.8