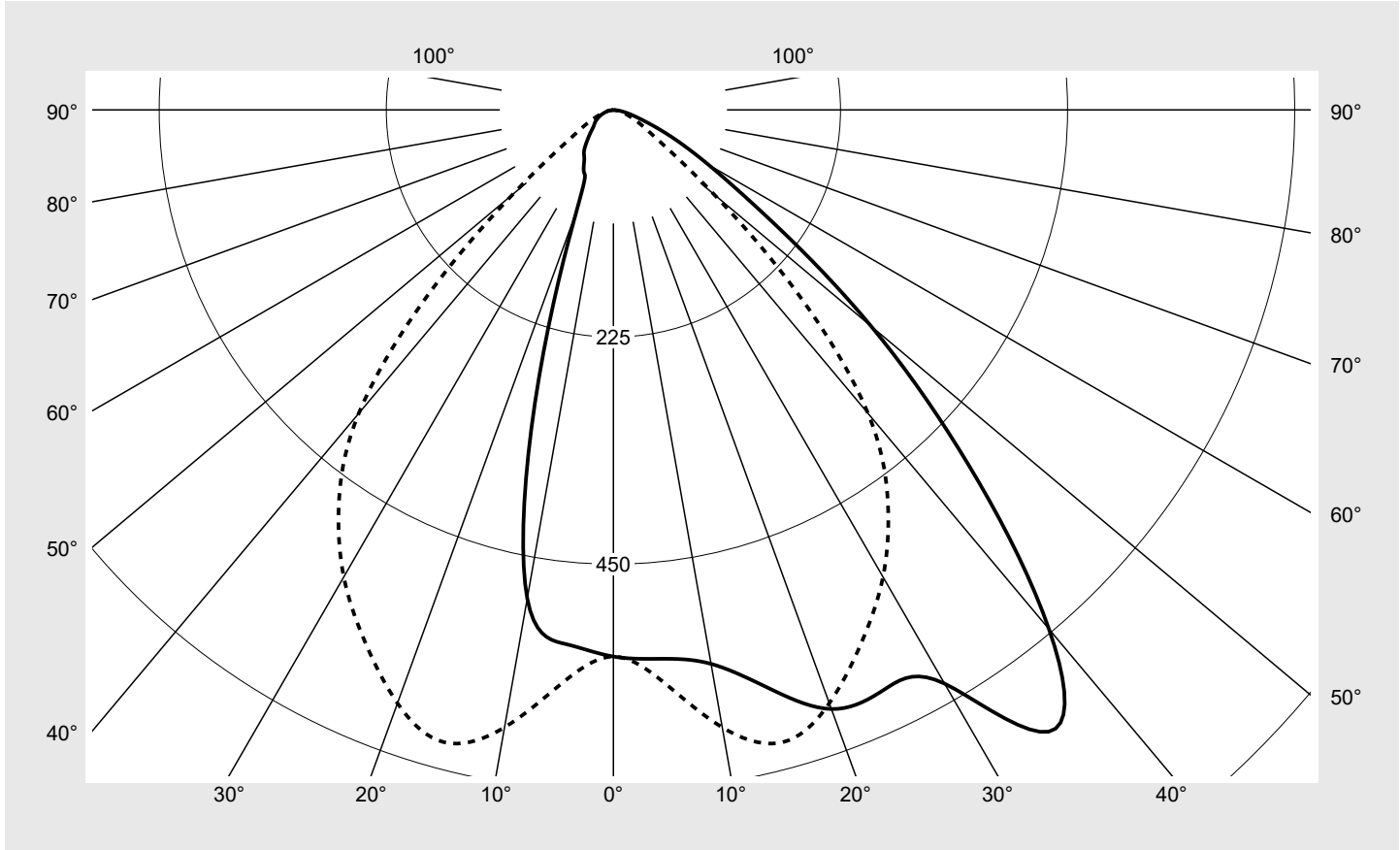


Photometric test report

Family Silica®	Order number: 5MX22WD1E4A EAN: 4058352305416	LP number 58998_2
	Version surface-mounted and suspended luminaire, Combined lens and reflector optics, frosted cover, asymmetric distribution	serial documentation 07.10.2020
	Lamps LED 4000 K CRI ≥ 80	Controlgear ECG-DALI
Rated values	Net luminous flux = 4680 lm Power consumption = 29.3 W Luminous efficacy = 159.7 lm/W	

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	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Silica®	Order number: 5MX22WD1E4A EAN: 4058352305416	LP number 58998_2
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	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

Family Silica®	Order number: 5MX22WD1E4A EAN: 4058352305416	LP number 58998_2
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	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 Silica®	Order number: 5MX22WD1E4A EAN: 4058352305416	LP number 58998_2
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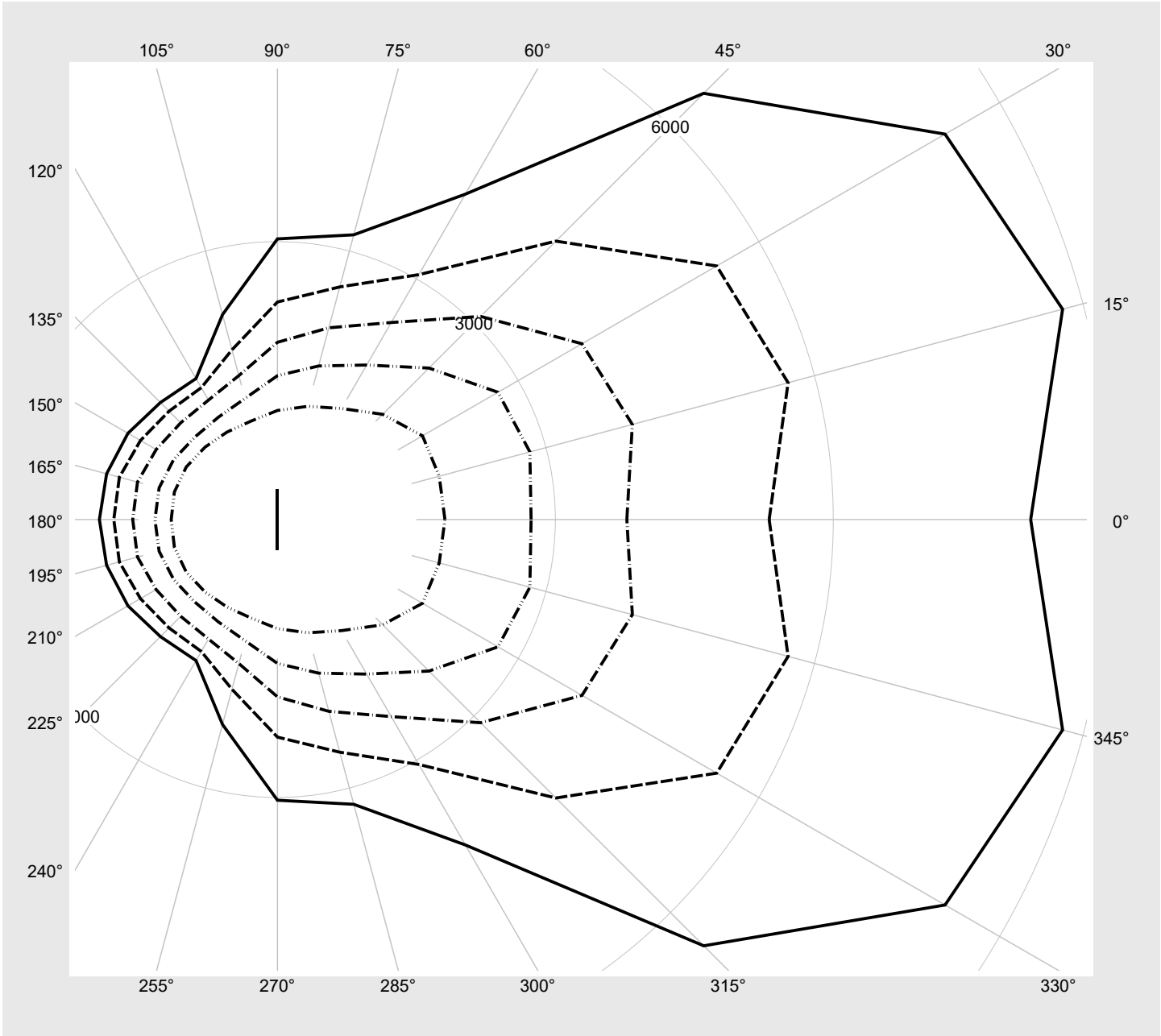
UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
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°				
γ	Luminance in cd/m ²																
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

Family Silica®	Order number: 5MX22WD1E4A EAN: 4058352305416	LP number 58998_2
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Silica®	Order number: 5MX22WD1E4A EAN: 4058352305416	LP number 58998_2
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Dimming levels table	environmental temperature: 25°C	sITeco
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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