

## Lichttechnischer Prüfbefund

Familie  
Silica®

Bestell-Nr.: 5MX12WD1W4A  
EAN: 4058352305324

LP-Nummer  
58998\_3



**Ausführung** Einbauleuchte, Kombinierte Linsen und Reflektor Optik, satinierte Abdeckung, asymmetrisch strahlend

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte**  
Nettolichtstrom = 4680 lm  
Systemleistung = 29.3 W  
Lichtausbeute = 159.7 lm/W

Seriendokumentation  
07.10.2020

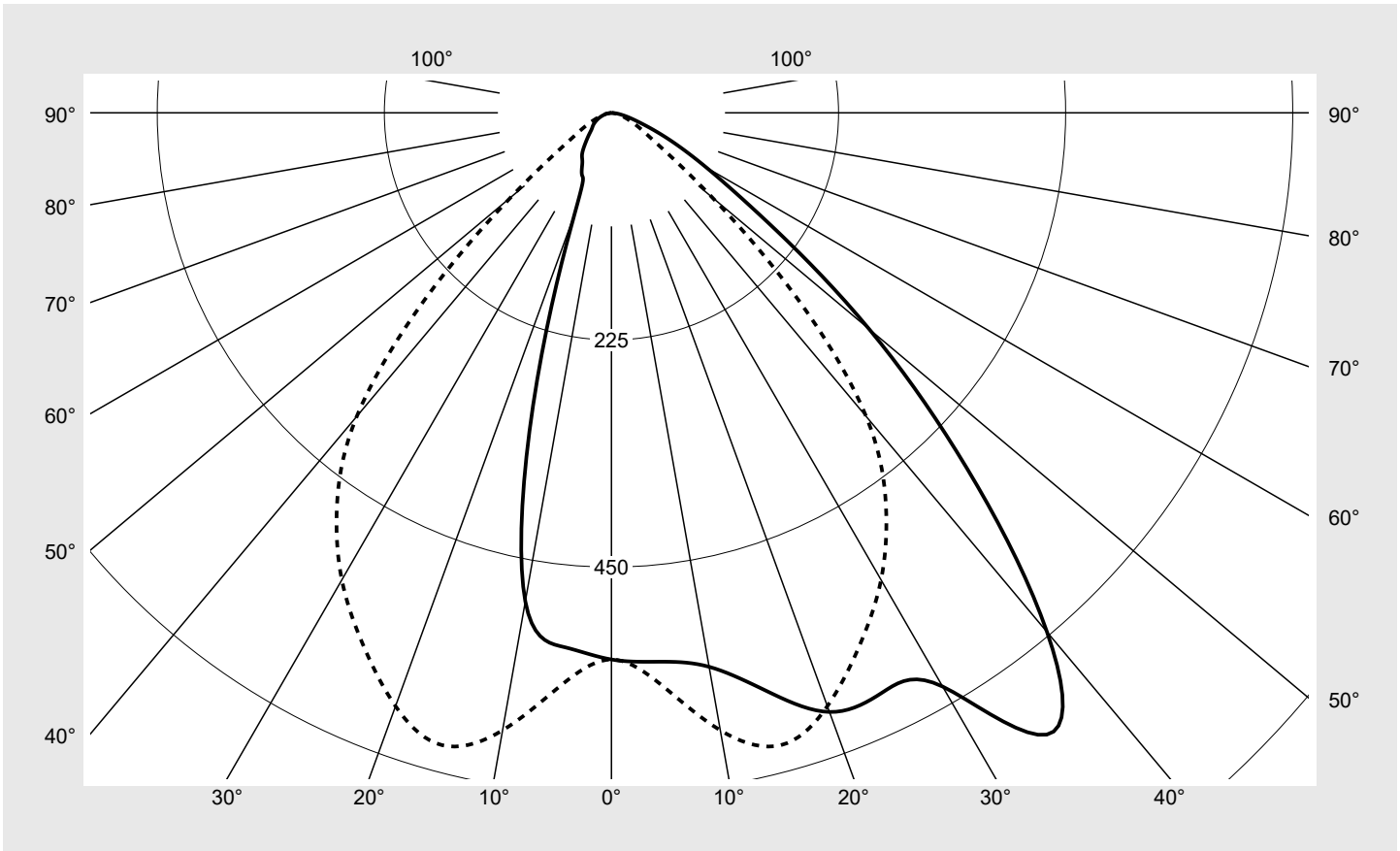
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 801 cd/klm



## Klassifizierungen

DIN 5040 A 5 0  
CIE N1=70 N2=95 N3=99  
N4=100 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

## Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

C- Ebenen	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	Lichtstärke 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

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

C- Ebenen	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-Zone	Summe Phi-Zone
$\gamma$	Lichtstärke in cd/klm						Lichtstrom 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

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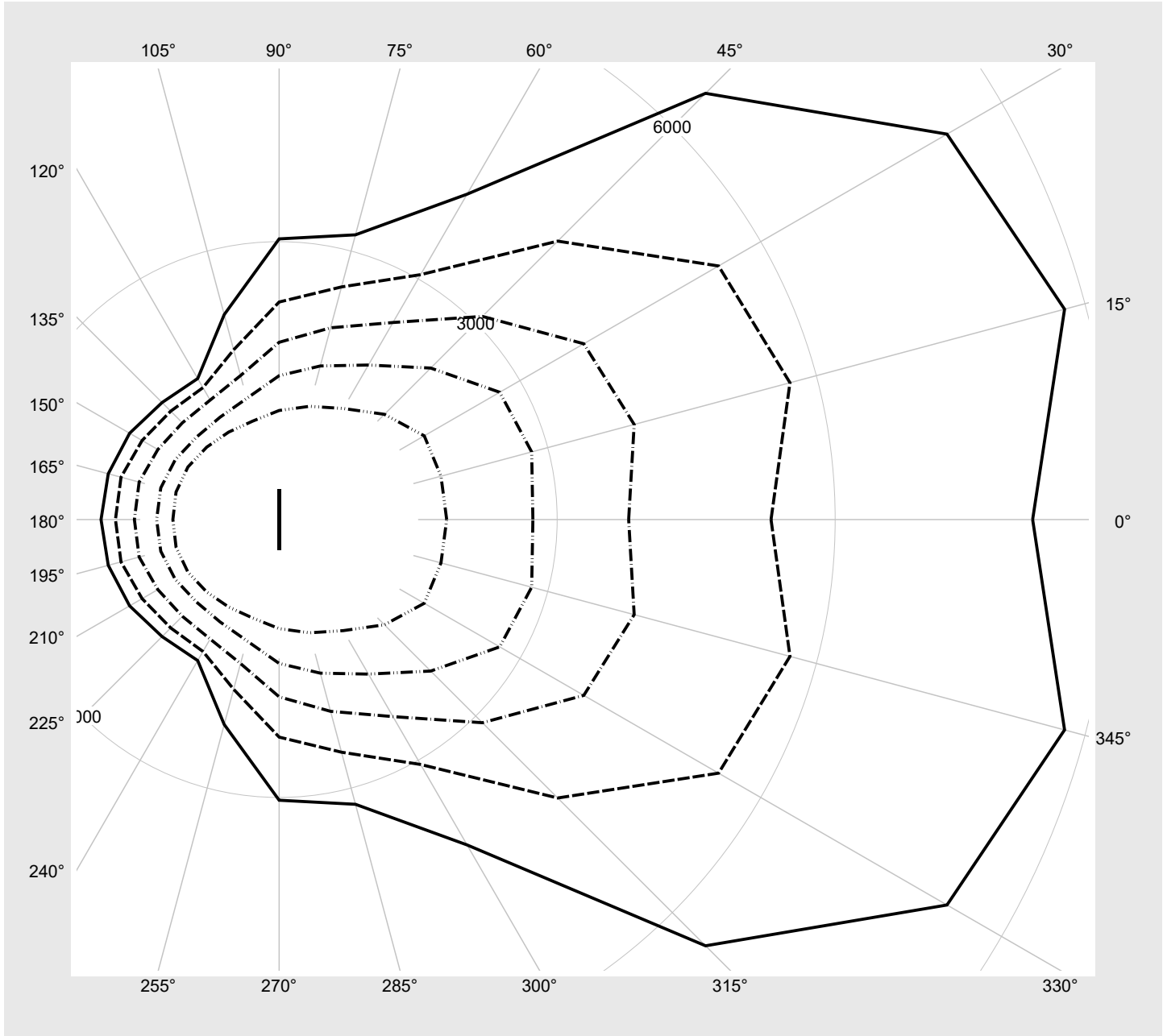
UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	25,2	26,6	25,5	26,9	27,2	19,7	21,1	20,0	21,4	21,7
	3H	25,2	26,5	25,6	26,8	27,2	19,7	20,9	20,1	21,3	21,6
	4H	25,2	26,4	25,6	26,8	27,1	19,7	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

Leuchtdichten-Tabelle		Max. für $\gamma \geq 65^\circ$											
		Lichttechnische Abmessungen in mm:										L = 1430 B = 61	
C-Ebenen	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
$\gamma$	Leuchtdichte 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

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**Leuchtdichten in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [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