
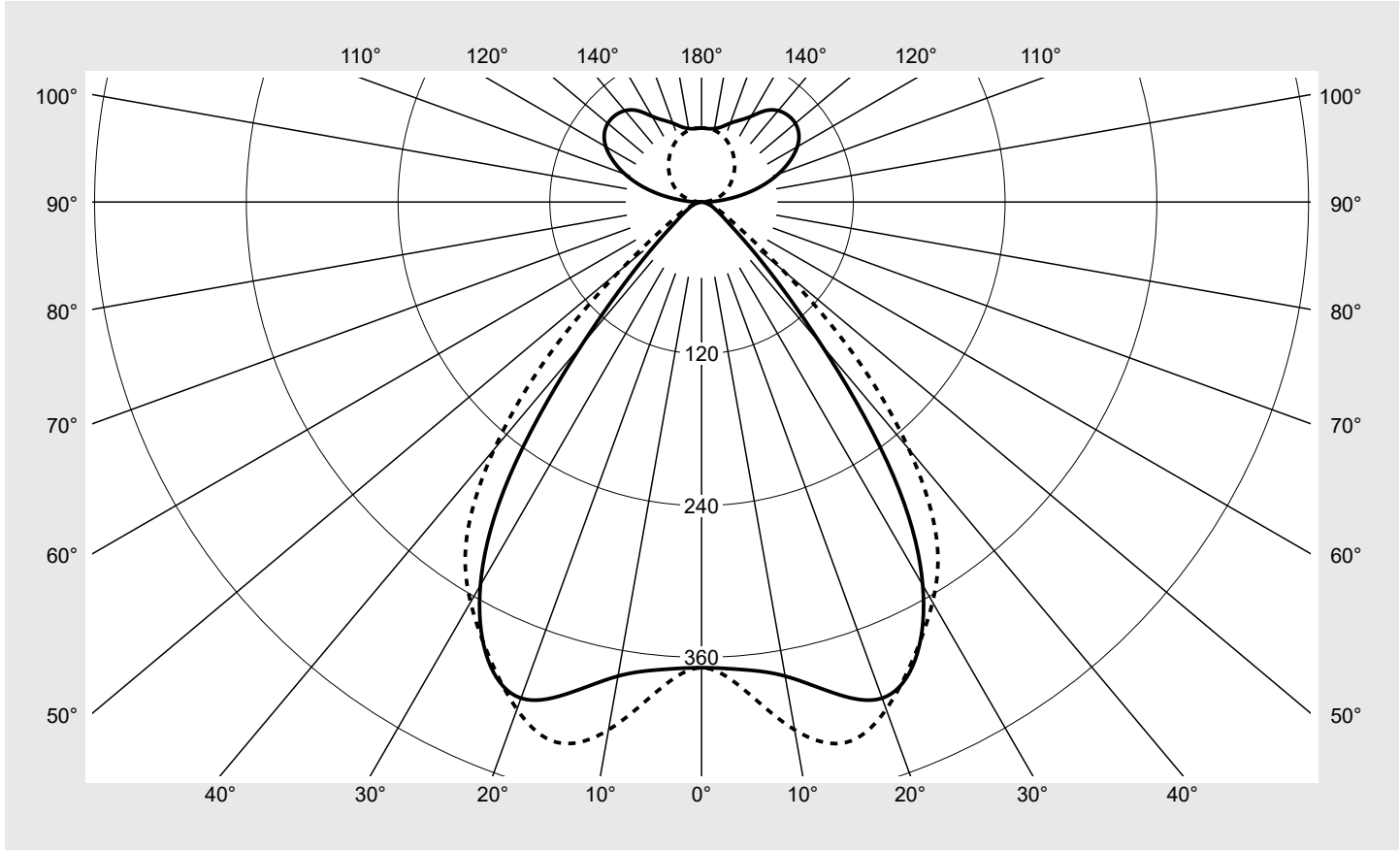


# Photometric test report

<b>Family</b> <b>Silica®</b> 	<b>Order number: 5MX31BD1W4A</b> <b>EAN: 4058352305447</b>	<b>LP number</b> <b>59008_1</b>
	<b>Version</b> Suspended luminaire, Combined lens and reflector optics, frosted cover, direct-/ indirect distribution, UGR≤19 (L65≤3000cd/m²)	<b>serial documentation</b> <b>07.10.2020</b>
<b>Lamps</b> LED 4000 K   CRI ≥ 80		
<b>Controlgear</b> ECG-DALI		
<b>Setting</b> factory setting: direct and indirect light		
<b>Rated values</b> Net luminous flux = 7070 lm Power consumption = 45.6 W Luminous efficacy = 155 lm/W		

siteco

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 457 cd/klm**



Classifications	
DIN 5040	B 6 2
CIE	N1=82 N2=97 N3=99 N4=70 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	70.1%
$\phi_o$	29.9%

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°	368.2	368.2	368.2	368.2	368.2	368.2	368.2	2.2	2.2
5°	371.1	372.5	372.3	377.9	383.3	385.7	387.1	18.1	20.3
10°	380.6	386.7	393.0	406.1	416.5	421.5	423.8	38.5	58.8
15°	401.7	411.9	422.2	436.4	443.1	442.5	442.3	61.0	119.7
20°	417.5	434.2	447.4	449.4	440.7	430.4	426.8	82.0	201.7
25°	399.5	431.8	457.2	447.2	418.1	401.4	397.1	98.6	300.3
30°	349.8	392.3	426.7	423.0	397.1	369.3	365.3	108.1	408.4
35°	264.8	296.9	333.6	364.1	359.2	328.6	323.8	103.6	512.0
40°	147.1	167.3	204.7	253.9	268.9	257.1	255.0	79.4	591.4
45°	70.1	82.5	102.6	139.6	162.7	166.1	169.4	50.0	641.4
50°	34.4	39.0	48.6	57.7	65.6	75.5	83.7	24.2	665.5
55°	21.0	22.6	25.5	29.1	29.5	33.2	38.9	12.7	678.3
60°	14.2	14.7	15.6	16.7	17.0	19.7	23.0	8.1	686.4
65°	10.3	10.4	10.6	10.6	11.1	13.3	14.7	5.7	692.0
70°	7.3	7.4	7.2	7.1	7.4	8.6	9.0	3.9	696.0
75°	4.3	4.4	4.3	4.2	4.4	4.9	5.1	2.4	698.3
80°	2.3	2.3	2.3	2.3	2.4	2.6	2.7	1.3	699.6
85°	0.9	0.8	0.9	0.9	0.9	1.0	1.0	0.5	700.1
90°	4.5	4.4	4.4	3.6	2.0	0.7	0.3	1.6	701.7
95°	15.9	16.2	16.6	13.9	8.1	4.7	3.3	6.3	708.0
100°	32.6	33.5	33.4	26.6	15.8	10.9	8.2	12.6	720.7
105°	49.4	50.6	49.7	40.7	24.8	16.5	13.2	18.8	739.5
110°	64.4	66.1	64.2	52.2	31.7	21.3	17.6	23.7	763.3
115°	77.1	78.1	76.0	60.0	36.1	25.8	21.6	26.9	790.2
120°	87.4	87.8	84.4	62.9	38.7	29.7	25.3	28.5	818.7
125°	93.9	93.6	87.6	62.2	41.4	33.0	29.1	28.4	847.1
130°	96.8	95.3	85.3	60.1	44.3	36.1	33.0	27.0	874.1
135°	96.7	94.1	81.7	58.8	47.2	39.2	36.9	25.1	899.1
140°	94.3	90.9	76.6	58.8	49.4	42.2	40.6	22.6	921.8
145°	88.1	84.1	71.0	59.5	51.5	45.2	44.2	19.8	941.5
150°	78.2	75.2	67.4	59.6	52.3	48.0	47.7	16.7	958.2
155°	71.4	69.8	64.8	59.4	53.3	50.8	50.9	13.9	972.1
160°	66.3	65.4	62.2	57.8	54.8	53.4	53.7	11.1	983.1
165°	61.6	61.0	58.9	57.4	56.0	55.6	56.0	8.2	991.4
170°	59.0	58.8	57.8	57.3	57.2	57.3	57.6	5.5	996.9
175°	58.2	58.2	57.7	57.9	58.1	58.5	58.6	2.8	999.7
180°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	0.3	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	15.5	16.5	16.2	17.2	18.1	17.3	18.3	18.0	19.0	19.9
	3H	15.3	16.2	16.1	17.0	17.9	17.2	18.0	17.9	18.8	19.7
	4H	15.3	16.1	16.0	16.8	17.8	17.1	17.9	17.9	18.7	19.6
	6H	15.2	15.9	16.0	16.7	17.7	17.1	17.8	17.9	18.6	19.5
	8H	15.1	15.8	15.9	16.6	17.5	17.0	17.6	17.8	18.4	19.4
	12H	15.1	15.7	15.9	16.5	17.5	16.9	17.5	17.8	18.3	19.3
4H	2H	15.3	16.1	16.0	16.8	17.7	17.0	17.8	17.7	18.5	19.5
	3H	15.2	15.8	16.0	16.6	17.6	16.9	17.6	17.7	18.4	19.3
	4H	15.1	15.7	15.9	16.5	17.5	16.8	17.4	17.7	18.2	19.2
	6H	15.1	15.6	15.9	16.4	17.4	16.8	17.3	17.6	18.1	19.1
	8H	15.0	15.4	15.8	16.3	17.3	16.7	17.1	17.5	18.0	19.0
	12H	14.9	15.3	15.8	16.2	17.2	16.7	17.1	17.5	17.9	19.0
8H	4H	14.9	15.4	15.8	16.2	17.3	16.6	17.1	17.5	17.9	19.0
	6H	14.9	15.2	15.7	16.1	17.2	16.5	16.9	17.4	17.8	18.8
	8H	14.8	15.2	15.7	16.0	17.1	16.5	16.8	17.4	17.7	18.8
	12H	14.8	15.1	15.7	16.0	17.1	16.5	16.8	17.4	17.7	18.8
12H	4H	14.9	15.3	15.8	16.2	17.2	16.6	17.0	17.5	17.8	18.9
	6H	14.9	15.2	15.8	16.0	17.1	16.5	16.8	17.4	17.7	18.8
	8H	14.8	15.1	15.7	16.0	17.1	16.5	16.8	17.4	17.6	18.7

<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	15995.7	18651.4	19037.8	19421.2	
50°		4334.1	4919.7	6128.1	7270.4	8268.0	9521.2	10551.0	
55°		2964.5	3189.3	3607.0	4115.4	4171.1	4693.6	5501.2	
60°		2293.7	2386.3	2529.1	2700.3	2761.4	3191.4	3721.3	
65°		1968.4	2001.8	2025.8	2037.1	2131.3	2549.5	2820.1	
70°		1726.6	1742.9	1715.2	1683.5	1749.3	2045.8	2143.9	
75°		1353.4	1362.8	1342.8	1328.4	1376.3	1549.8	1605.5	
80°		1073.1	1074.0	1073.1	1073.1	1120.7	1236.4	1278.0	
85°		799.8	787.7	799.8	829.5	869.5	936.5	952.3	

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

