

## Photometric test report

Family  
**Silica®**

Order number: **5MX31BD2W4A**  
EAN: **4058352305461**

LP number  
**59008\_3**



**Version** Suspended luminaire, Combined lens and reflector optics, frosted cover, direct-/ indirect distribution,  $UGR \leq 19$  ( $L65 \leq 3000 \text{cd/m}^2$ )

**Lamps** LED 4000 K | CRI  $\geq 80$

**Controlgear** ECG-DALI

**Setting** factory setting: direct and indirect light

**Rated values** Net luminous flux = 14160 lm  
Power consumption = 92.6 W  
Luminous efficacy = 152.9 lm/W

serial  
documentation  
**07.10.2020**

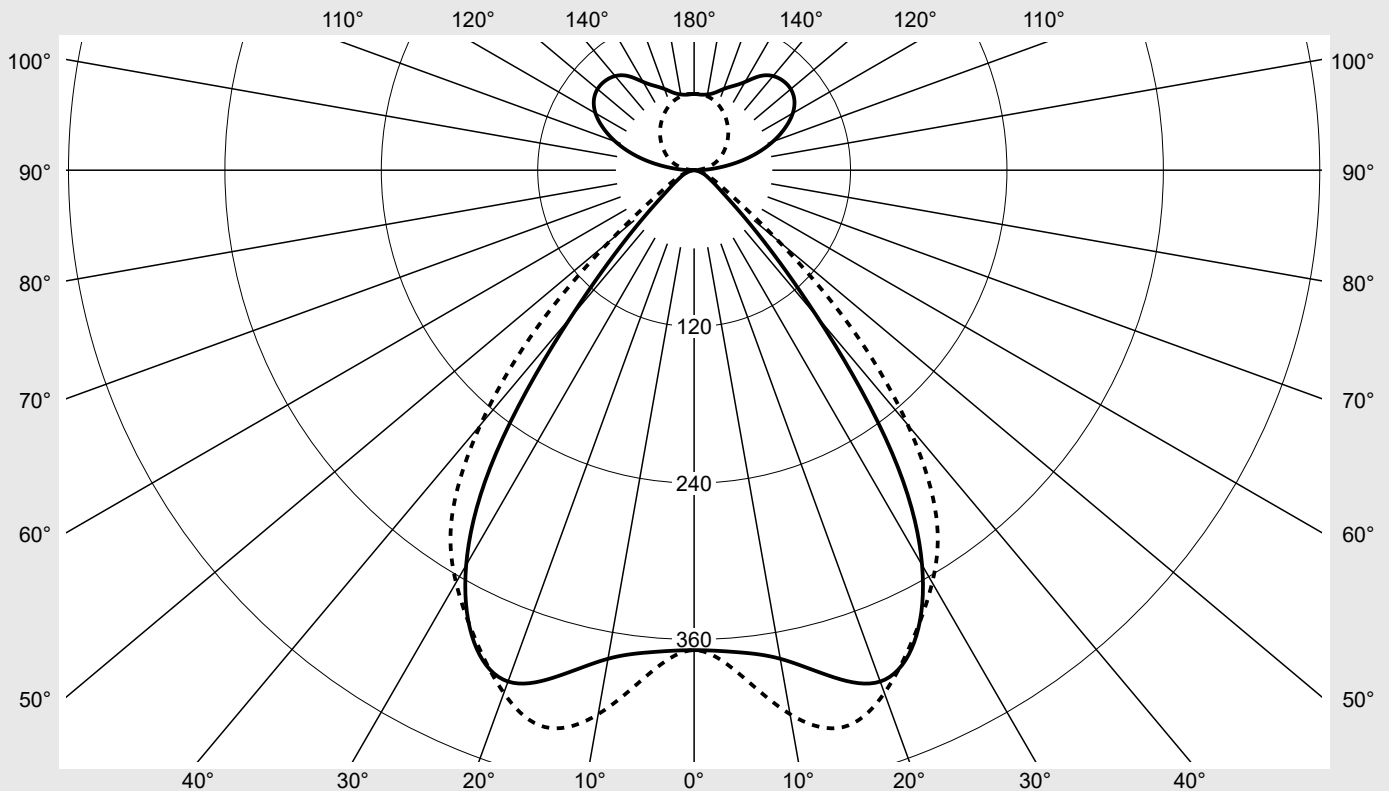
siteco

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	15.4	16.2	16.1	17.0	17.9	17.2	18.1	18.0	18.8	19.7
	4H	15.3	16.1	16.1	16.9	17.8	17.2	18.0	17.9	18.7	19.7
	6H	15.2	16.0	16.0	16.7	17.7	17.1	17.8	17.9	18.6	19.5
	8H	15.1	15.8	16.0	16.6	17.6	17.0	17.6	17.8	18.4	19.4
	12H	15.1	15.7	15.9	16.5	17.5	17.0	17.6	17.8	18.4	19.3
4H	2H	15.3	16.1	16.1	16.9	17.8	17.0	17.8	17.8	18.6	19.5
	3H	15.2	15.9	16.0	16.7	17.6	16.9	17.6	17.7	18.4	19.4
	4H	15.2	15.7	16.0	16.6	17.5	16.9	17.5	17.7	18.3	19.3
	6H	15.1	15.6	15.9	16.4	17.5	16.8	17.3	17.7	18.2	19.2
	8H	15.0	15.4	15.8	16.3	17.3	16.7	17.2	17.6	18.0	19.1
	12H	15.0	15.3	15.8	16.2	17.3	16.7	17.1	17.6	17.9	19.0
8H	4H	15.0	15.4	15.8	16.3	17.3	16.7	17.1	17.5	18.0	19.0
	6H	14.9	15.3	15.8	16.1	17.2	16.6	16.9	17.4	17.8	18.9
	8H	14.9	15.2	15.8	16.1	17.2	16.6	16.9	17.4	17.8	18.8
	12H	14.9	15.1	15.7	16.0	17.1	16.6	16.8	17.4	17.7	18.8
12H	4H	15.0	15.3	15.8	16.2	17.2	16.6	17.0	17.5	17.9	18.9
	6H	14.9	15.2	15.8	16.1	17.2	16.6	16.9	17.5	17.7	18.8
	8H	14.9	15.1	15.8	16.0	17.1	16.5	16.8	17.4	17.7	18.8

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 2836</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°		8117.6	9550.3	11876.6	16153.9	18835.9	19226.1	19613.3	
50°		4377.0	4968.4	6188.7	7342.3	8349.7	9615.3	10655.3	
55°		2993.8	3220.8	3642.7	4156.1	4212.3	4740.1	5555.6	
60°		2316.4	2409.9	2554.1	2727.0	2788.7	3223.0	3758.1	
65°		1987.9	2021.6	2045.8	2057.2	2152.3	2574.7	2848.0	
70°		1743.7	1760.2	1732.2	1700.1	1766.6	2066.0	2165.1	
75°		1366.8	1376.3	1356.1	1341.5	1389.9	1565.1	1621.4	
80°		1083.7	1084.6	1083.7	1083.7	1131.7	1248.6	1290.6	
85°		807.7	795.5	807.7	837.7	878.1	945.7	961.7	

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

