

Photometric test report

Family
Silica® 21

Order number: **51MX23DC3AWB**
EAN: **4058352905272**

LP number
59330_241

serial
documentation
02.08.2023

siteco

Version

surface-mounted luminaire, with homogeneous illumination, prismatic cover, direct distribution, extremely wide distribution, $UGR \leq 19$ ($L65 \leq 3000 \text{ cd/m}^2$)

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 8200 lm

Power consumption = 62.2 W

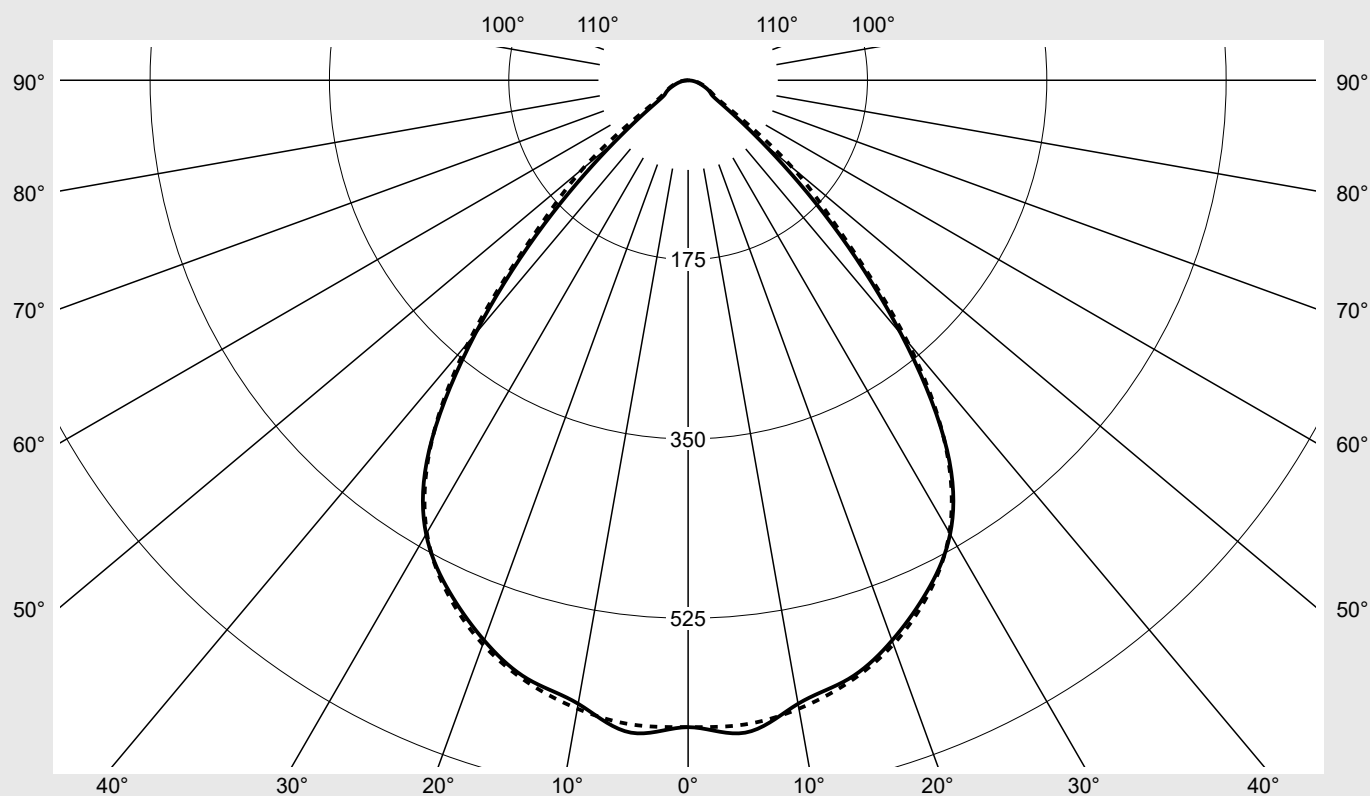
Luminous efficacy = 131.8 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 642 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=78 N2=96 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

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Table of values for luminous intensities		Maximum luminous intensity
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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	3.8	3.8
5°	639.0	636.9	635.8	640.8	642.0	634.8	631.1	30.5	34.2
10°	617.8	615.8	612.2	616.7	624.6	629.4	622.7	59.0	93.2
15°	604.8	603.1	597.6	597.0	601.6	607.9	607.8	85.4	178.7
20°	581.7	581.2	575.6	575.6	576.2	579.7	585.7	108.5	287.2
25°	550.9	551.4	546.3	545.8	546.2	547.0	553.9	127.0	414.1
30°	511.3	512.1	506.5	506.8	506.5	506.0	509.9	139.2	553.4
35°	440.5	440.8	437.0	438.8	441.2	438.6	439.0	138.1	691.5
40°	323.4	324.8	326.1	329.4	332.6	332.8	333.0	115.9	807.4
45°	198.4	199.0	200.7	203.5	206.3	209.2	212.1	79.1	886.5
50°	93.9	108.5	122.0	111.2	100.2	119.3	133.6	47.2	933.7
55°	37.7	51.0	48.2	55.0	41.5	57.5	53.4	22.4	956.1
60°	25.5	26.5	28.2	26.2	26.1	27.8	29.0	12.8	968.9
65°	21.0	20.8	21.7	21.1	22.1	22.0	22.3	10.7	979.6
70°	15.2	15.5	16.2	16.1	16.4	16.6	17.4	8.3	987.9
75°	10.6	11.0	12.1	11.5	11.8	12.4	12.4	6.2	994.1
80°	6.4	6.8	7.5	8.1	7.5	8.4	8.5	4.1	998.3
85°	2.4	2.5	2.6	3.2	3.5	4.1	4.3	1.7	1000.0
90°	0.0	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	0.0	1000.0
100°	0.0	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	0.0	1000.0
110°	0.0	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	0.0	1000.0
120°	0.0	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	0.0	1000.0
130°	0.0	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	0.0	1000.0
140°	0.0	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	0.0	1000.0
150°	0.0	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	0.0	1000.0
160°	0.0	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	0.0	1000.0
170°	0.0	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	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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UGR-Table		Standard room									siteco	
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	18.4	19.8	18.8	20.1	20.4	18.6	20.0	19.0	20.3	20.6	
	3H	18.5	19.7	18.9	20.0	20.4	18.7	19.9	19.1	20.3	20.6	
	4H	18.5	19.7	18.9	20.0	20.4	18.8	19.9	19.2	20.3	20.6	
	6H	18.6	19.6	19.0	19.9	20.3	18.9	19.9	19.3	20.2	20.6	
	8H	18.6	19.5	19.1	19.9	20.3	19.0	19.9	19.4	20.2	20.6	
	12H	18.6	19.5	19.1	19.9	20.3	19.0	19.8	19.4	20.2	20.6	
4H	2H	18.4	19.5	18.8	19.8	20.2	18.6	19.7	19.0	20.0	20.4	
	3H	18.5	19.4	18.9	19.8	20.2	18.7	19.7	19.2	20.0	20.5	
	4H	18.6	19.4	19.0	19.8	20.3	18.8	19.7	19.3	20.1	20.5	
	6H	18.7	19.4	19.1	19.8	20.3	19.0	19.7	19.4	20.1	20.6	
	8H	18.7	19.3	19.2	19.8	20.3	19.0	19.7	19.5	20.1	20.6	
	12H	18.7	19.3	19.2	19.7	20.2	19.1	19.7	19.6	20.1	20.6	
8H	4H	18.6	19.2	19.1	19.7	20.2	18.8	19.5	19.3	19.9	20.4	
	6H	18.7	19.2	19.2	19.7	20.2	19.0	19.5	19.5	20.0	20.5	
	8H	18.8	19.2	19.3	19.7	20.2	19.1	19.6	19.6	20.1	20.6	
	12H	18.8	19.2	19.3	19.7	20.2	19.2	19.6	19.7	20.1	20.6	
12H	4H	18.6	19.1	19.1	19.6	20.1	18.8	19.4	19.3	19.8	20.3	
	6H	18.7	19.2	19.3	19.7	20.2	19.0	19.5	19.5	20.0	20.5	
	8H	18.8	19.2	19.3	19.7	20.2	19.1	19.5	19.7	20.0	20.6	

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 3000 B = 50	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	15337.1	15386.8	15516.8	15733.4	15947.7	16176.3	16396.2
50°	7985.6	9225.1	10377.4	9461.0	8525.0	10144.7	11360.6
55°	3593.5	4859.8	4595.5	5239.5	3952.2	5476.5	5093.4
60°	2786.7	2901.2	3078.1	2859.1	2851.3	3042.2	3168.5
65°	2712.4	2694.8	2807.3	2728.9	2858.0	2844.2	2883.9
70°	2428.8	2480.0	2581.5	2570.0	2616.8	2647.5	2781.9
75°	2234.0	2315.3	2548.7	2438.7	2493.0	2614.9	2619.3
80°	2010.4	2136.0	2358.3	2564.8	2374.0	2654.5	2660.5
85°	1519.8	1542.4	1645.2	2011.5	2168.3	2548.4	2673.3

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LP number
59330_241

Luminance values in cd/m²

γ 65°

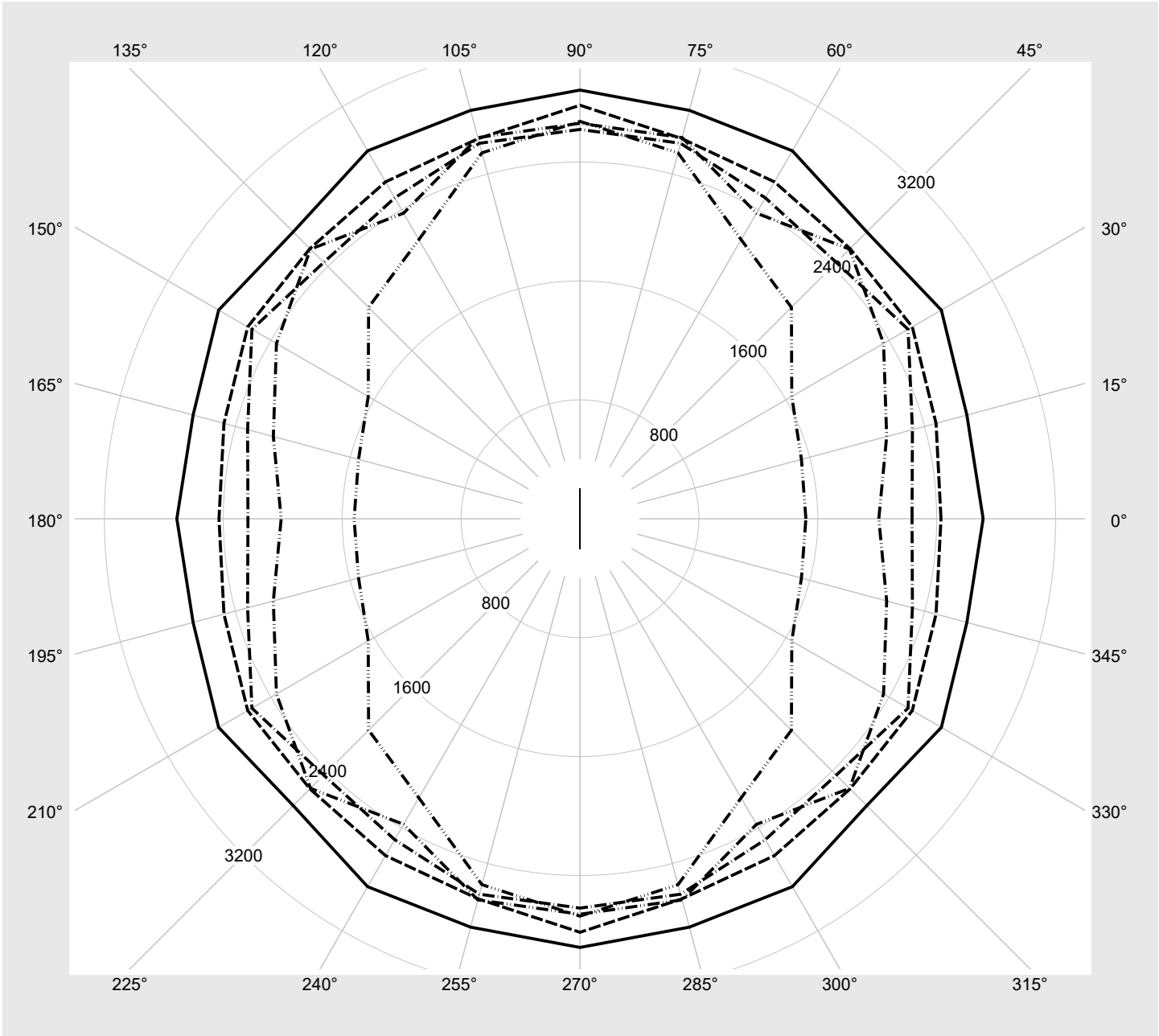
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8200	62.2
95	241	252	7800	59.0
90	227	250	7370	55.8
85	214	248	6968	52.6
80	201	245	6564	49.6
75	188	243	6157	46.5
70	175	240	5746	43.5
65	162	238	5333	40.4
60	149	234	4915	37.4
55	136	231	4497	34.4
50	124	228	4109	31.4
45	111	224	3686	28.4
40	99	219	3294	25.7
35	86	214	2866	22.6
30	74	209	2469	19.9
25	61	202	2038	17.0
20	49	194	1636	14.2
15	37	183	1232	11.4
10	25	169	828	8.8
5	13	145	423	6.0
2	6	117	185	4.3