

Photometric test report

Family
Silica® 21



Order number: 51MX36DA37WB
EAN: 4058352889183

LP number
59280_77

serial
documentation
02.08.2023

Version Suspended luminaire, reflector, white, direct-/indirect distribution, wide distribution, UGR≤16 (L65≤3000cd/m²)

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 7060 lm
Power consumption = 43.0 W
Luminous efficacy = 164.2 lm/W

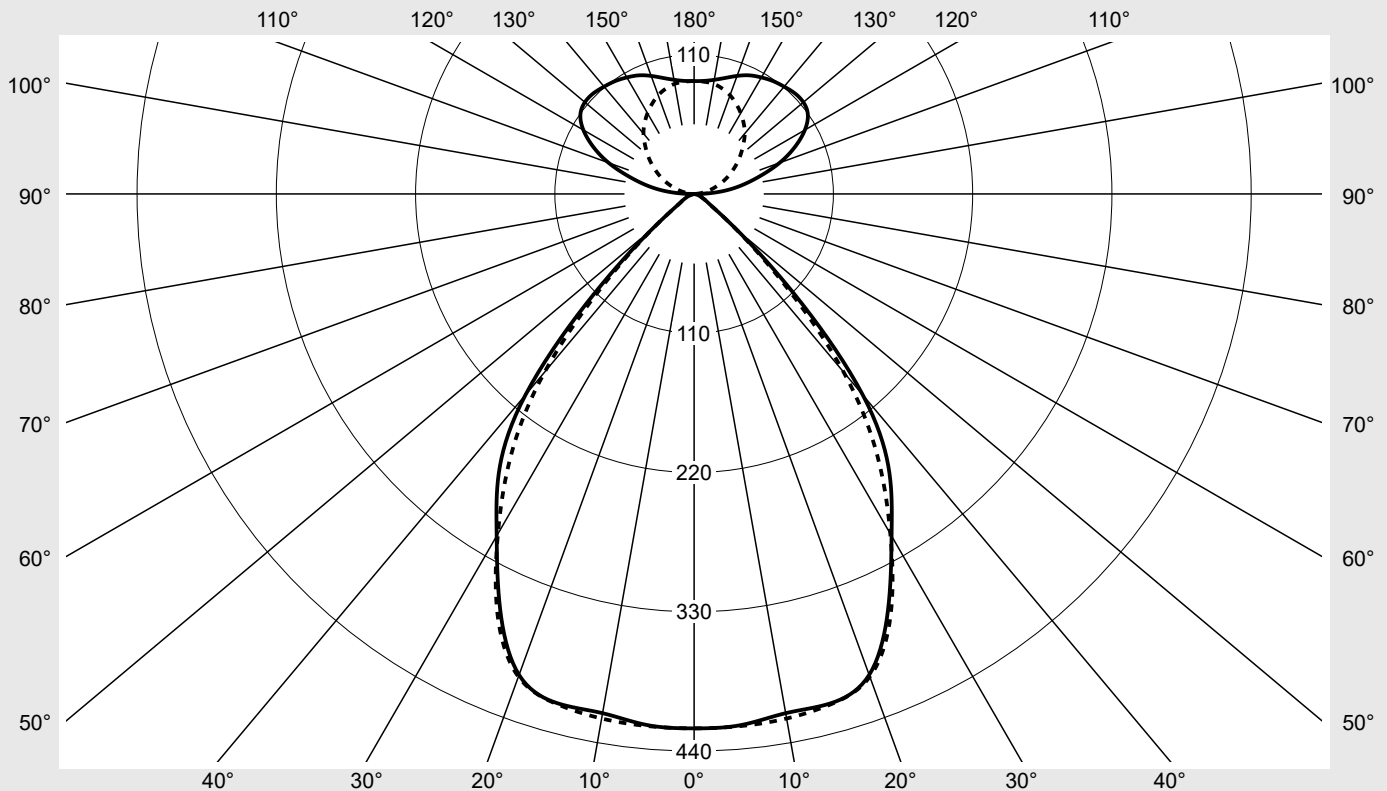
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 422 cd/klm



Classifications

DIN 5040 B 6 2
CIE N1=83 N2=98 N3=100
N4=61 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 61.1%
 ϕ_o 38.9%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Luminous intensity in cd/klm		Luminous flux in lm/klm	
								Phi-zone	Total Phi-zone		
0°	422.1	422.1	422.1	422.1	422.1	422.1	422.1	2.5	2.5		
5°	421.2	421.7	421.1	421.4	421.8	422.4	421.9	20.1	22.7		
10°	416.4	415.9	416.6	418.5	420.4	419.5	420.7	39.8	62.5		
15°	416.5	417.3	416.2	418.2	418.6	417.7	417.3	59.2	121.7		
20°	404.3	408.0	408.5	410.6	406.7	404.4	405.8	76.3	198.0		
25°	362.4	369.4	376.8	381.5	377.2	370.0	367.2	86.5	284.5		
30°	311.9	316.7	317.8	318.8	318.6	312.7	309.9	86.6	371.1		
35°	268.9	273.0	262.7	253.0	257.3	257.0	252.3	81.9	453.0		
40°	207.2	211.8	206.6	199.5	199.2	191.4	183.8	70.7	523.7		
45°	112.3	116.7	117.8	117.4	112.9	104.7	100.2	43.7	567.4		
50°	43.9	46.6	49.7	52.0	48.4	44.4	42.8	19.9	587.3		
55°	17.8	19.3	22.0	25.4	22.4	18.9	17.4	9.4	596.7		
60°	10.9	11.5	12.5	13.7	12.5	11.2	10.7	5.7	602.4		
65°	7.0	7.3	7.7	7.8	7.5	7.2	6.9	3.7	606.1		
70°	4.8	4.9	4.6	4.4	4.5	4.8	4.7	2.4	608.5		
75°	1.9	2.1	2.3	2.3	2.3	2.2	2.0	1.2	609.6		
80°	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.5	610.2		
85°	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.4	610.6		
90°	4.5	4.3	4.6	4.5	2.7	0.9	0.3	1.8	612.3		
95°	20.9	21.3	22.8	21.6	13.8	7.1	3.7	9.0	621.4		
100°	37.3	38.3	38.6	33.8	22.7	12.8	8.4	15.2	636.6		
105°	53.5	54.6	53.5	45.7	31.3	19.4	14.2	21.0	657.6		
110°	71.9	72.1	67.6	56.3	40.1	26.2	20.3	26.5	684.1		
115°	87.8	87.0	80.3	66.0	48.6	33.1	27.1	30.8	714.9		
120°	101.0	99.4	90.6	73.9	56.6	39.8	33.7	33.8	748.7		
125°	109.6	106.6	96.9	81.1	63.3	46.1	40.8	35.1	783.9		
130°	112.6	110.2	99.9	85.4	68.4	52.7	47.8	34.8	818.6		
135°	112.4	110.1	101.0	88.3	72.5	58.7	54.9	33.2	851.9		
140°	110.6	108.9	101.3	90.4	76.0	64.5	62.2	31.0	882.8		
145°	108.8	107.6	101.3	91.5	79.1	69.9	68.2	28.2	911.0		
150°	106.2	105.8	100.1	91.4	81.7	75.0	73.6	24.8	935.9		
155°	103.3	103.0	97.6	91.1	83.7	79.6	78.5	21.1	956.9		
160°	99.2	99.0	94.6	90.3	85.5	83.2	82.9	17.0	973.9		
165°	94.8	94.3	92.1	89.2	87.2	86.0	86.1	12.8	986.7		
170°	91.5	91.1	90.5	89.3	88.4	88.3	88.3	8.5	995.2		
175°	89.6	89.5	89.1	88.9	88.9	89.0	89.0	4.3	999.5		
180°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	0.5	1000.0		

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UGR-Table	Standard room	siteco
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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	16.6	17.5	17.4	18.3	19.3	16.2	17.1	17.0	17.9	18.9
	3H	16.3	17.1	17.2	18.0	19.0	16.0	16.8	16.9	17.7	18.7
	4H	16.2	16.9	17.1	17.8	18.9	15.9	16.6	16.8	17.5	18.6
	6H	16.1	16.7	16.9	17.6	18.7	15.8	16.4	16.7	17.3	18.4
	8H	16.0	16.6	16.9	17.4	18.6	15.6	16.2	16.5	17.1	18.2
	12H	15.9	16.4	16.8	17.3	18.5	15.6	16.1	16.5	17.0	18.2
4H	2H	16.3	17.0	17.1	17.8	18.9	15.9	16.6	16.7	17.4	18.5
	3H	16.1	16.7	17.0	17.5	18.7	15.7	16.3	16.6	17.2	18.3
	4H	15.9	16.5	16.8	17.4	18.5	15.6	16.1	16.5	17.0	18.2
	6H	15.8	16.2	16.7	17.1	18.3	15.5	15.9	16.4	16.8	18.0
	8H	15.7	16.1	16.6	17.0	18.2	15.4	15.8	16.3	16.7	17.9
	12H	15.6	15.9	16.6	16.9	18.1	15.3	15.6	16.3	16.6	17.8
8H	4H	15.7	16.1	16.7	17.0	18.2	15.4	15.8	16.3	16.7	17.9
	6H	15.6	15.9	16.5	16.9	18.1	15.2	15.5	16.2	16.5	17.7
	8H	15.5	15.8	16.5	16.8	18.0	15.2	15.5	16.1	16.4	17.6
	12H	15.4	15.7	16.4	16.6	17.9	15.1	15.3	16.1	16.3	17.6
12H	4H	15.6	16.0	16.6	16.9	18.1	15.3	15.6	16.2	16.5	17.8
	6H	15.5	15.8	16.5	16.7	17.9	15.1	15.4	16.1	16.4	17.6
	8H	15.4	15.7	16.4	16.6	17.9	15.1	15.3	16.1	16.3	17.5

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1176 B = 49
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C-planes	γ	Luminance in cd/m ²							
		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°	19465.0	20213.3	20416.2	20341.9	19553.2	18139.7	17366.9		
50°	8360.1	8877.6	9470.6	9909.7	9232.1	8456.0	8156.7		
55°	3794.3	4129.4	4699.9	5425.5	4787.3	4034.6	3711.6		
60°	2667.2	2806.2	3055.4	3355.0	3057.3	2748.6	2610.4		
65°	2040.0	2120.6	2233.7	2263.9	2184.4	2074.3	1990.2		
70°	1716.9	1763.2	1640.3	1580.5	1610.2	1711.6	1687.6		
75°	913.6	994.6	1065.6	1111.0	1103.9	1039.5	964.7		
80°	636.4	646.3	664.6	669.6	692.1	704.8	699.2		
85°	1075.4	1061.3	1055.7	1029.0	1029.0	1034.6	1031.8		

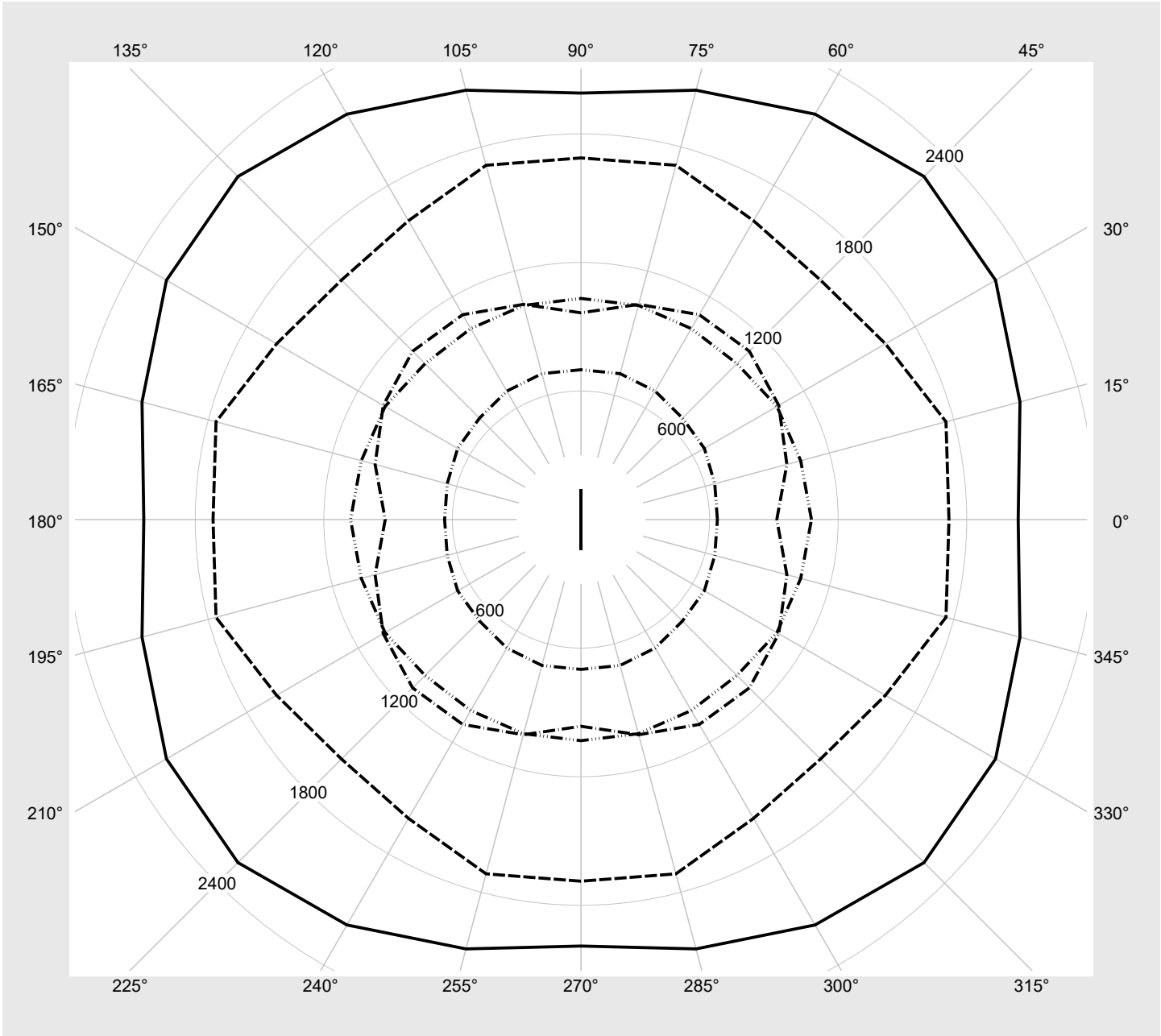
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	7060	43.0
95	241	252	6718	40.8
90	227	250	6348	38.6
85	214	248	6002	36.4
80	201	245	5652	34.3
75	188	243	5301	32.1
70	175	240	4948	30.0
65	162	238	4593	27.9
60	149	234	4235	25.7
55	136	231	3875	23.6
50	124	228	3540	21.7
45	111	224	3177	19.6
40	98	219	2811	17.5
35	86	214	2470	15.5
30	74	209	2128	13.7
25	61	202	1755	11.5
20	49	194	1410	9.5
15	37	183	1063	7.6
10	25	169	715	5.8
5	13	145	365	4.0
2	6	117	160	3.4