

Photometric test report

Family
Silica® 21

Order number: **51MX23TCTAB**
EAN: **4058352800171**

LP number
59330_145

serial
documentation
03.05.2023

siteco



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting factory setting

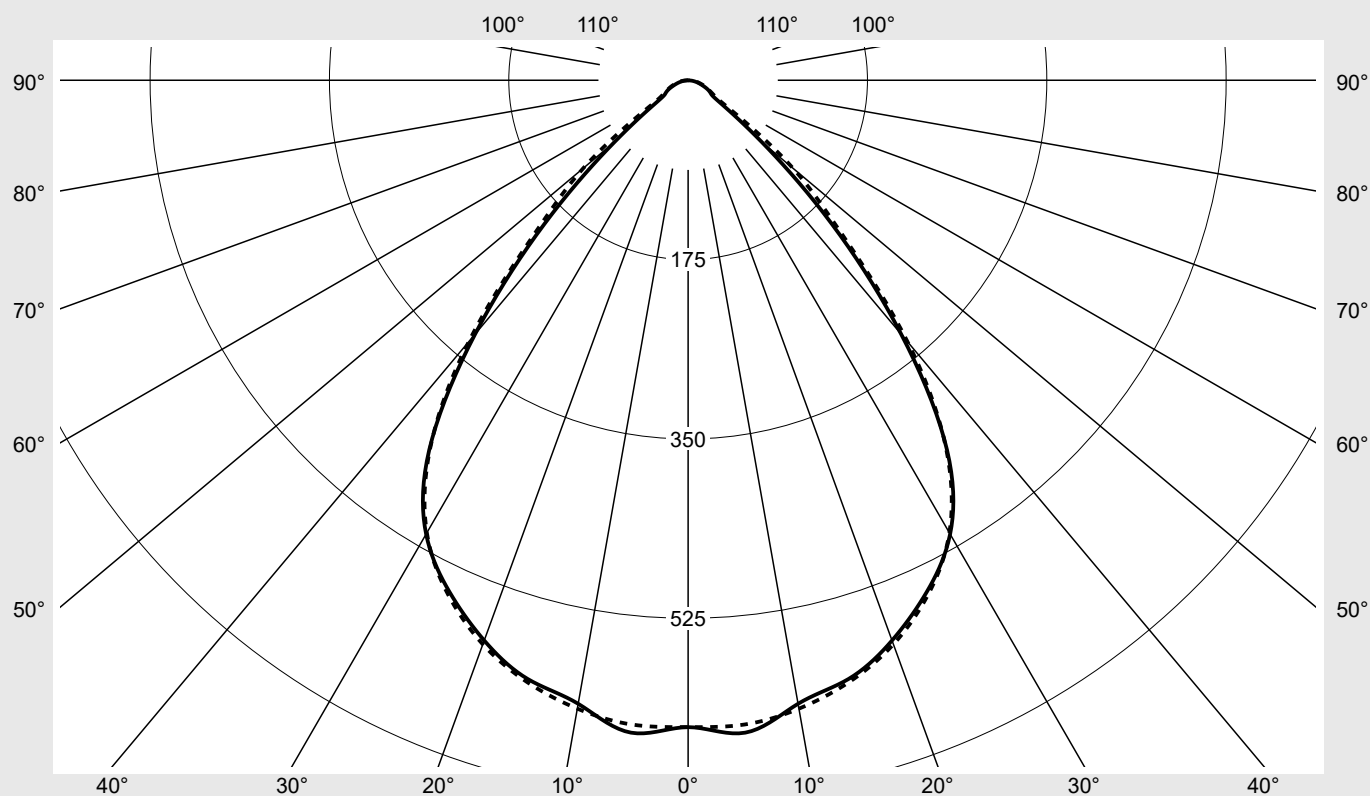
Rated values Net luminous flux = 8070 lm
Power consumption = 85.1 W
Luminous efficacy = 94.8 lm/W

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

Photometric test report

Family Silica® 21	Order number: 51MX23TCTAB EAN: 4058352800171	LP number 59330_145
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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

Photometric test report

Family Silica® 21	Order number: 51MX23TCTAB EAN: 4058352800171	LP number 59330_145
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	19.7	18.7	20.1	20.4	18.6	20.0	18.9	20.3	20.6
	3H	18.4	19.6	18.8	20.0	20.3	18.7	19.9	19.1	20.2	20.6
	4H	18.5	19.6	18.9	19.9	20.3	18.7	19.9	19.1	20.2	20.6
	6H	18.5	19.5	18.9	19.9	20.3	18.8	19.8	19.2	20.2	20.6
	8H	18.6	19.5	19.0	19.9	20.3	18.9	19.8	19.3	20.2	20.6
	12H	18.6	19.4	19.0	19.8	20.2	18.9	19.8	19.4	20.2	20.6
4H	2H	18.3	19.4	18.7	19.8	20.1	18.5	19.6	18.9	20.0	20.4
	3H	18.4	19.4	18.9	19.8	20.2	18.7	19.6	19.1	20.0	20.4
	4H	18.5	19.4	19.0	19.8	20.2	18.8	19.6	19.2	20.0	20.5
	6H	18.6	19.3	19.1	19.8	20.2	18.9	19.6	19.4	20.1	20.5
	8H	18.6	19.3	19.1	19.7	20.2	19.0	19.6	19.5	20.1	20.6
	12H	18.7	19.2	19.2	19.7	20.2	19.1	19.6	19.6	20.1	20.6
8H	4H	18.5	19.2	19.0	19.6	20.1	18.8	19.4	19.3	19.9	20.3
	6H	18.7	19.2	19.2	19.7	20.2	19.0	19.5	19.5	20.0	20.5
	8H	18.7	19.2	19.2	19.6	20.2	19.1	19.5	19.6	20.0	20.5
	12H	18.7	19.1	19.3	19.6	20.2	19.2	19.5	19.7	20.0	20.6
12H	4H	18.5	19.1	19.0	19.5	20.0	18.8	19.3	19.3	19.8	20.3
	6H	18.7	19.1	19.2	19.6	20.1	19.0	19.4	19.5	19.9	20.4
	8H	18.7	19.1	19.3	19.6	20.2	19.1	19.5	19.6	20.0	20.5

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°	15094.0	15142.8	15270.8	15483.9	15694.9	15919.9	16136.3
50°	7859.0	9078.9	10212.9	9311.0	8389.9	9983.8	11180.5
55°	3536.5	4782.7	4522.6	5156.4	3889.5	5389.7	5012.6
60°	2742.5	2855.2	3029.3	2813.7	2806.1	2994.0	3118.2
65°	2669.4	2652.1	2762.8	2685.7	2812.7	2799.1	2838.2
70°	2390.3	2440.7	2540.6	2529.2	2575.3	2605.5	2737.8
75°	2198.6	2278.6	2508.3	2400.0	2453.5	2573.4	2577.8
80°	1978.5	2102.1	2320.9	2524.1	2336.4	2612.4	2618.3
85°	1495.7	1517.9	1619.1	1979.6	2134.0	2508.0	2630.9

Photometric test report

Family
Silica® 21

Order number: 51MX23TCTAB
EAN: 4058352800171

LP number
59330_145

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

