

Photometric test report

Family
Silica® 21

Order number: **51MX23TAT4B**
EAN: **4058352687277**

LP number
59330_128



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 6500 K | CRI ≥ 80

Controlgear ECG-DALI

Setting individual position

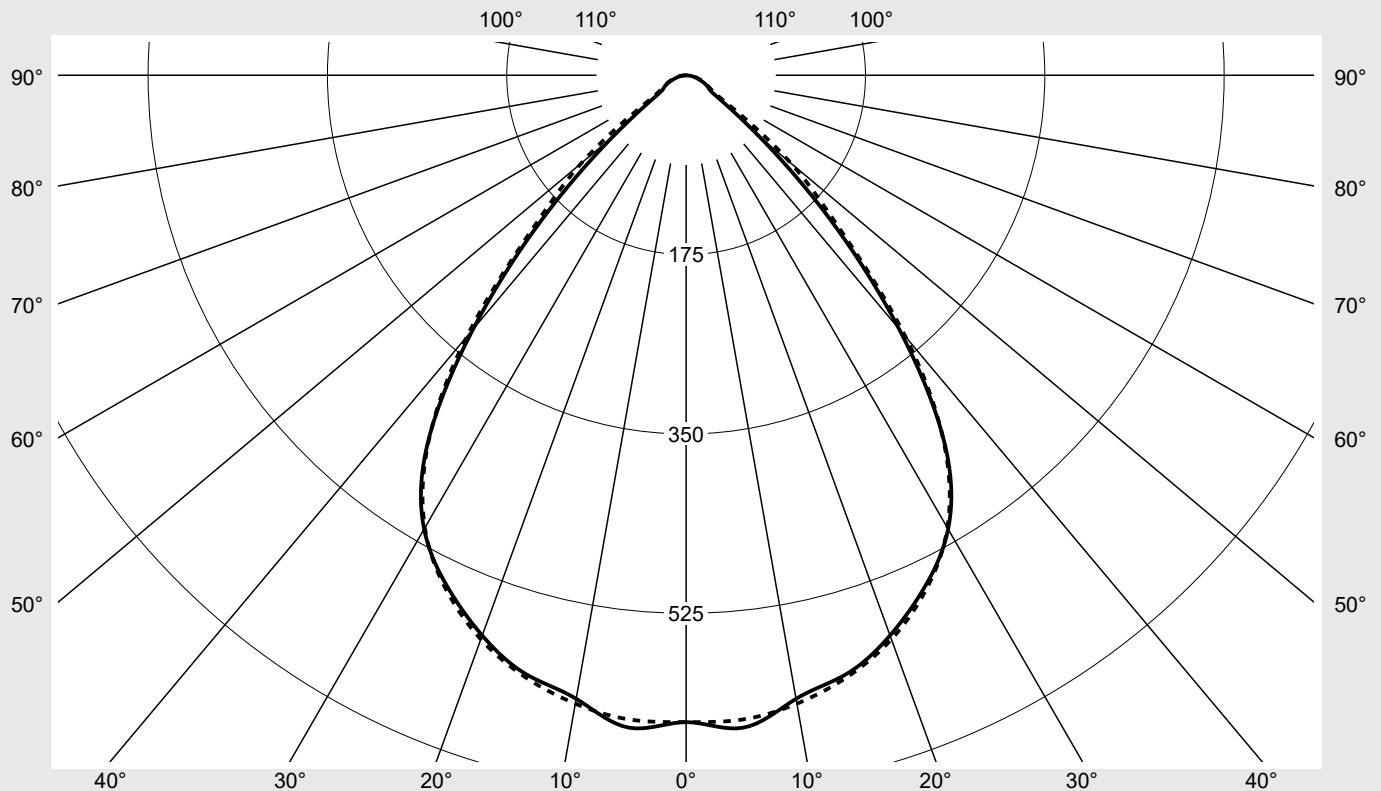
Rated values Net luminous flux = 3230 lm
Power consumption = 32.4 W
Luminous efficacy = 99.7 lm/W

serial
documentation
03.05.2023

siteco

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: 51MX23TAT4B EAN: 4058352687277	LP number 59330_128
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	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°	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: 51MX23TAT4B EAN: 4058352687277	LP number 59330_128
-----------------------------	---	-------------------------------

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	19.7	18.8	20.0	20.3	18.7	19.9	19.1	20.2	20.6
	4H	18.5	19.6	18.9	20.0	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	19.7	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 = 1200 B = 50
-----------------	---------------------------------	-------------------------------	--------------------

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°		15103.3	15152.2	15280.3	15493.5	15704.6	15929.7	16146.3	
50°		7863.9	9084.5	10219.2	9316.7	8395.1	9990.0	11187.5	
55°		3538.7	4785.7	4525.4	5159.6	3891.9	5393.0	5015.7	
60°		2744.2	2856.9	3031.1	2815.5	2807.8	2995.8	3120.2	
65°		2671.0	2653.7	2764.5	2687.3	2814.5	2800.8	2839.9	
70°		2391.8	2442.2	2542.1	2530.8	2576.9	2607.1	2739.5	
75°		2200.0	2280.1	2509.9	2401.5	2455.0	2575.0	2579.4	
80°		1979.7	2103.4	2322.3	2525.7	2337.8	2614.0	2619.9	
85°		1496.6	1518.8	1620.1	1980.9	2135.3	2509.6	2632.5	

Photometric test report

Family Silica® 21	Order number: 51MX23TAT4B EAN: 4058352687277	LP number 59330_128
------------------------------------	---	--------------------------------------

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

