

Photometric test report

Family Silica® 21	Order number: 51MX22TCTAB EAN: 4058352796634	LP number 59272_112
	Version surface-mounted luminaire, reflector, black, direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²), tunable white	serial documentation 03.05.2023
	Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position Rated values Net luminous flux = 9300 lm Power consumption = 80.4 W Luminous efficacy = 115.7 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 700 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=84 N2=99 N3=100 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
		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°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	4.2	4.2
5°	699.6	698.5	693.9	696.9	698.4	696.4	699.4	33.3	37.5
10°	694.6	694.5	689.5	695.3	694.0	687.7	690.0	65.9	103.4
15°	672.6	676.2	675.2	682.1	683.0	677.2	674.7	96.2	199.5
20°	643.1	649.9	651.2	653.1	656.2	653.1	648.8	122.2	321.7
25°	605.9	614.8	613.8	608.6	601.9	597.0	589.1	140.3	462.0
30°	546.6	557.0	551.8	537.6	523.2	517.8	519.3	147.1	609.1
35°	452.6	459.5	452.6	444.2	440.2	442.2	446.7	140.9	750.0
40°	321.1	327.1	329.4	337.0	343.8	344.5	346.6	118.4	868.3
45°	172.2	187.2	203.3	211.2	210.4	196.6	193.1	77.0	945.3
50°	63.8	73.4	88.4	94.7	94.6	78.0	74.0	34.9	980.1
55°	17.5	22.2	30.2	37.1	33.0	23.7	21.3	12.4	992.5
60°	5.9	7.1	10.7	14.2	11.5	8.5	8.2	4.7	997.2
65°	2.1	2.5	3.7	4.8	4.2	3.3	3.2	1.8	998.9
70°	1.4	1.5	1.1	1.1	1.3	1.7	1.7	0.7	999.6
75°	0.3	0.4	0.3	0.5	0.4	0.5	0.5	0.2	999.9
80°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	999.9
85°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	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									
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	18.6	19.9	19.0	20.2	20.6	18.7	20.0	19.1	20.4	20.7
	3H	18.5	19.6	18.9	20.0	20.3	18.6	19.8	19.0	20.1	20.4
	4H	18.4	19.5	18.8	19.8	20.2	18.5	19.6	18.9	19.9	20.3
	6H	18.4	19.3	18.8	19.7	20.1	18.5	19.4	18.9	19.8	20.2
	8H	18.4	19.2	18.8	19.6	20.0	18.5	19.3	18.9	19.7	20.1
	12H	18.4	19.1	18.8	19.5	19.9	18.5	19.2	18.9	19.6	20.1
4H	2H	18.5	19.5	18.9	19.9	20.2	18.6	19.6	19.0	20.0	20.3
	3H	18.3	19.2	18.7	19.6	20.0	18.4	19.3	18.8	19.7	20.1
	4H	18.2	19.0	18.7	19.4	19.8	18.3	19.1	18.8	19.5	19.9
	6H	18.1	18.8	18.6	19.2	19.7	18.3	18.9	18.7	19.3	19.8
	8H	18.1	18.7	18.6	19.1	19.6	18.2	18.8	18.7	19.2	19.7
	12H	18.1	18.6	18.6	19.0	19.5	18.2	18.7	18.7	19.1	19.6
8H	4H	18.1	18.7	18.6	19.1	19.6	18.2	18.8	18.7	19.2	19.7
	6H	18.0	18.5	18.5	18.9	19.5	18.1	18.6	18.6	19.1	19.6
	8H	17.9	18.4	18.4	18.8	19.4	18.0	18.5	18.6	19.0	19.5
	12H	17.9	18.2	18.4	18.7	19.3	18.0	18.4	18.6	18.9	19.4
12H	4H	18.1	18.6	18.6	19.0	19.5	18.2	18.7	18.7	19.1	19.6
	6H	18.0	18.4	18.5	18.8	19.4	18.1	18.5	18.6	19.0	19.5
	8H	17.9	18.2	18.4	18.7	19.3	18.0	18.4	18.6	18.9	19.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 2940		B = 49		
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°		15725.2	17086.3	18560.6	19278.1	19212.9	17951.7	17629.9		
50°		6408.6	7376.3	8881.8	9511.4	9497.6	7836.5	7432.3		
55°		1966.5	2494.6	3397.9	4177.4	3714.3	2661.8	2393.3		
60°		763.8	919.4	1380.1	1837.0	1479.1	1094.1	1054.1		
65°		326.0	385.7	558.8	735.7	645.4	500.6	489.0		
70°		257.1	274.3	208.6	204.0	247.3	319.2	327.3		
75°		76.1	101.0	84.3	117.7	109.2	128.2	116.5		
80°		21.2	24.9	35.3	46.1	60.2	71.0	74.4		
85°		28.1	31.9	52.6	74.1	102.2	130.4	141.5		

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

