

Photometric test report

Family Silica® 21	Order number: 51MX12TBT5W EAN: 4058352754757	LP number 59272_47
	Version	recessed luminaire, reflector, black, direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²), tunable white
	Lamps	LED 2700 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	individual position
	Rated values	Net luminous flux = 4650 lm Power consumption = 45.7 W Luminous efficacy = 101.8 lm/W
		serial documentation 03.05.2023
		

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	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	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 = 1470 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°		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**

