

Photometric test report

Family
Silica® 21

Order number: **51MX22TCTAS**
EAN: **4058352800157**

LP number
59272_137

serial
documentation
03.05.2023



Version surface-mounted luminaire, reflector, black, direct distribution, wide distribution, $UGR \leq 19$ ($L65 \leq 1000 \text{ cd/m}^2$), tunable white

Lamps LED 2700 K | CRI ≥ 80

Controlgear ECG-DALI

Setting individual position

Rated values Net luminous flux = 9300 lm
Power consumption = 91.4 W
Luminous efficacy = 101.8 lm/W

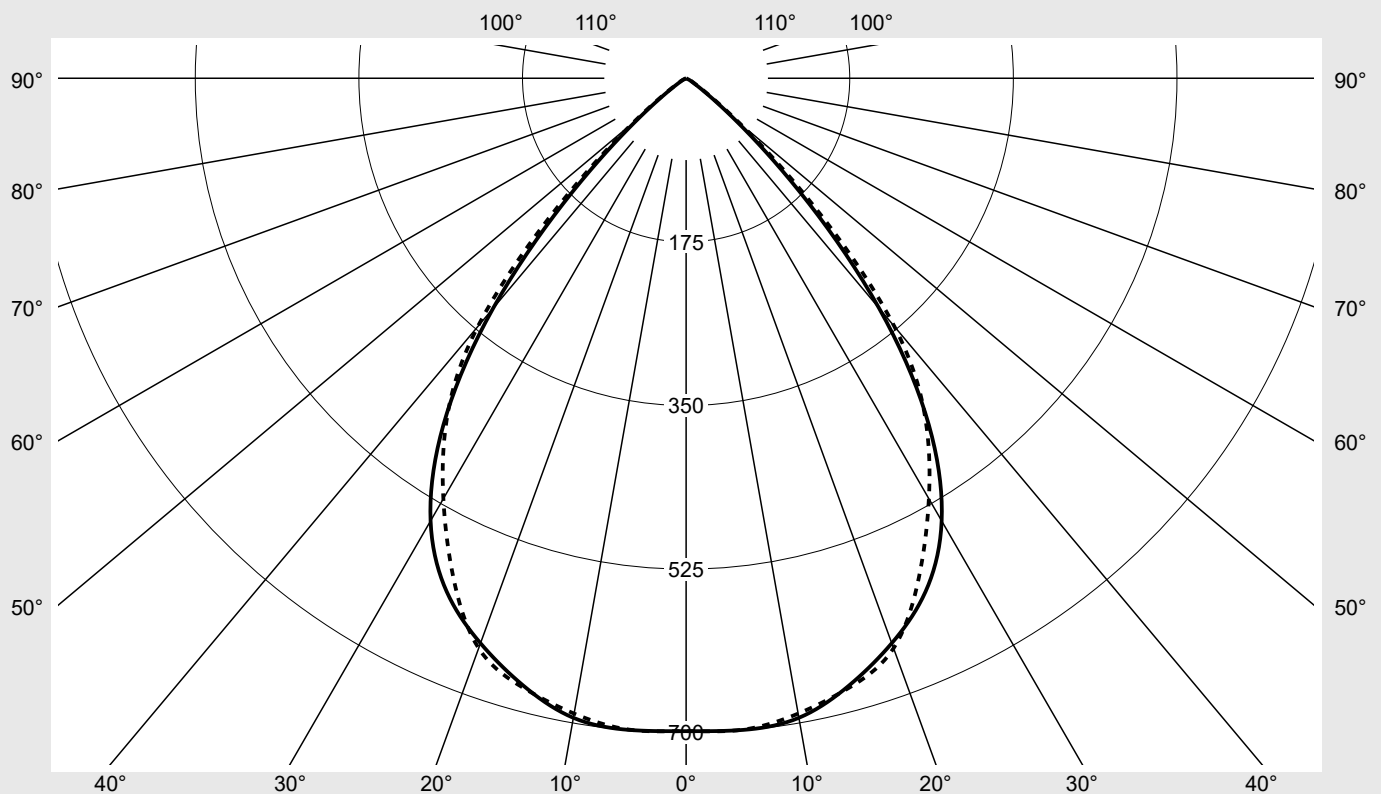
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Luminous intensity in cd/klm

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

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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°	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	
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	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°	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°

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