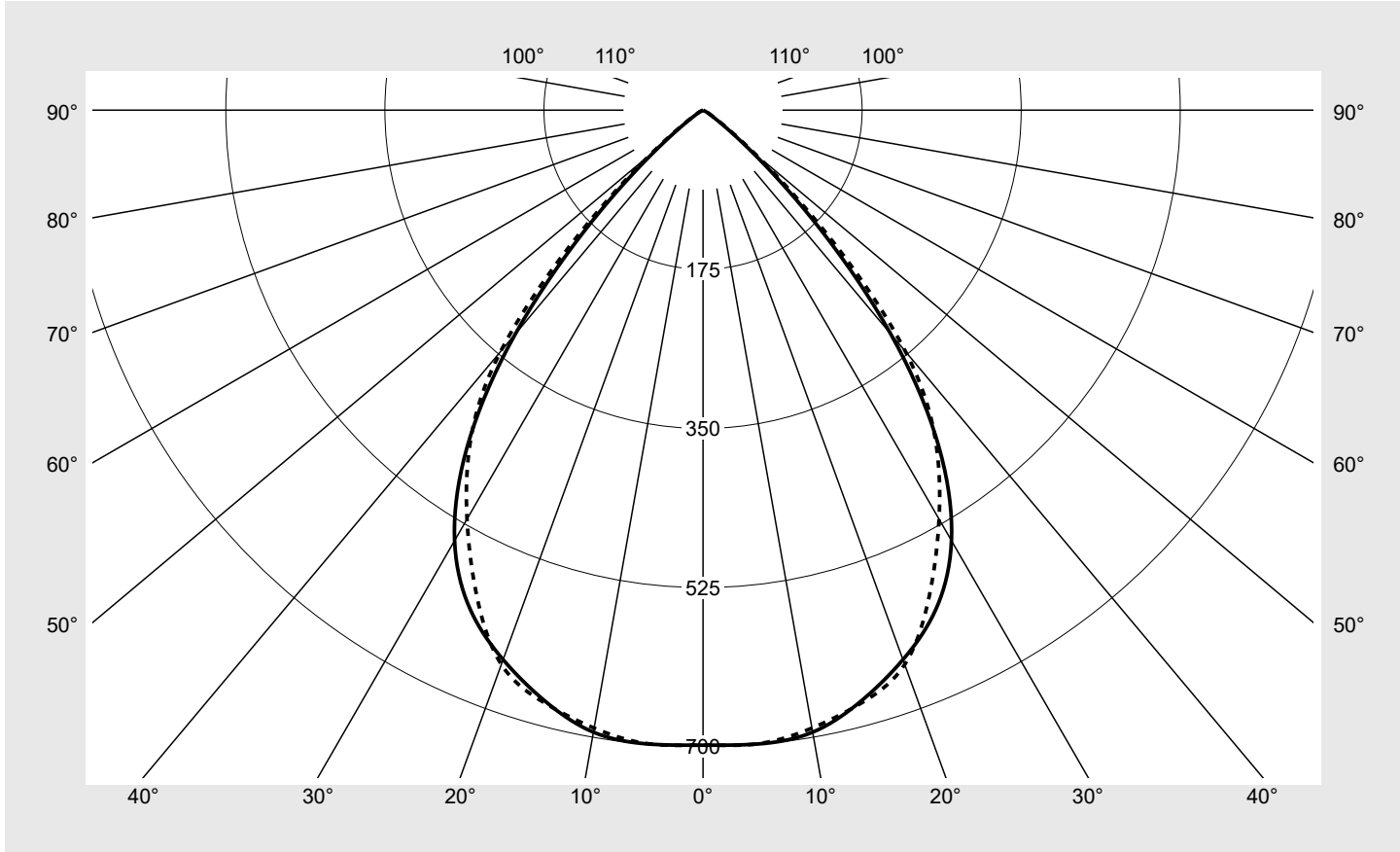


Photometric test report

Family Silica® 21	Order number: 51MX22TCTAS EAN: 4058352800157	LP number 59272_138
	Version surface-mounted luminaire, reflector, black, direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²), tunable white	serial documentation 03.05.2023
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting factory setting Rated values Net luminous flux = 9300 lm Power consumption = 84.5 W Luminous efficacy = 110.1 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

Photometric test report

Family Silica® 21	Order number: 51MX22TCTAS EAN: 4058352800157	LP number 59272_138
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

Photometric test report

Family Silica® 21	Order number: 51MX22TCTAS EAN: 4058352800157	LP number 59272_138
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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 = 2940 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	

Photometric test report

Family
Silica® 21

Order number: 51MX22TCTAS
EAN: 4058352800157

LP number
59272_138

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

