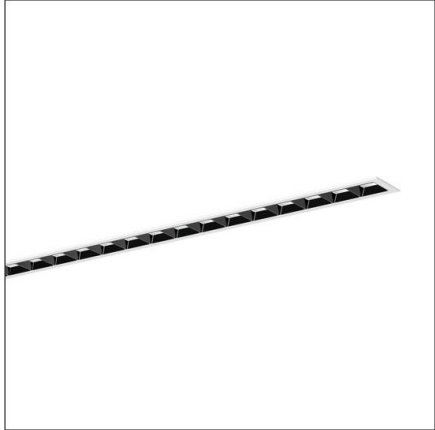

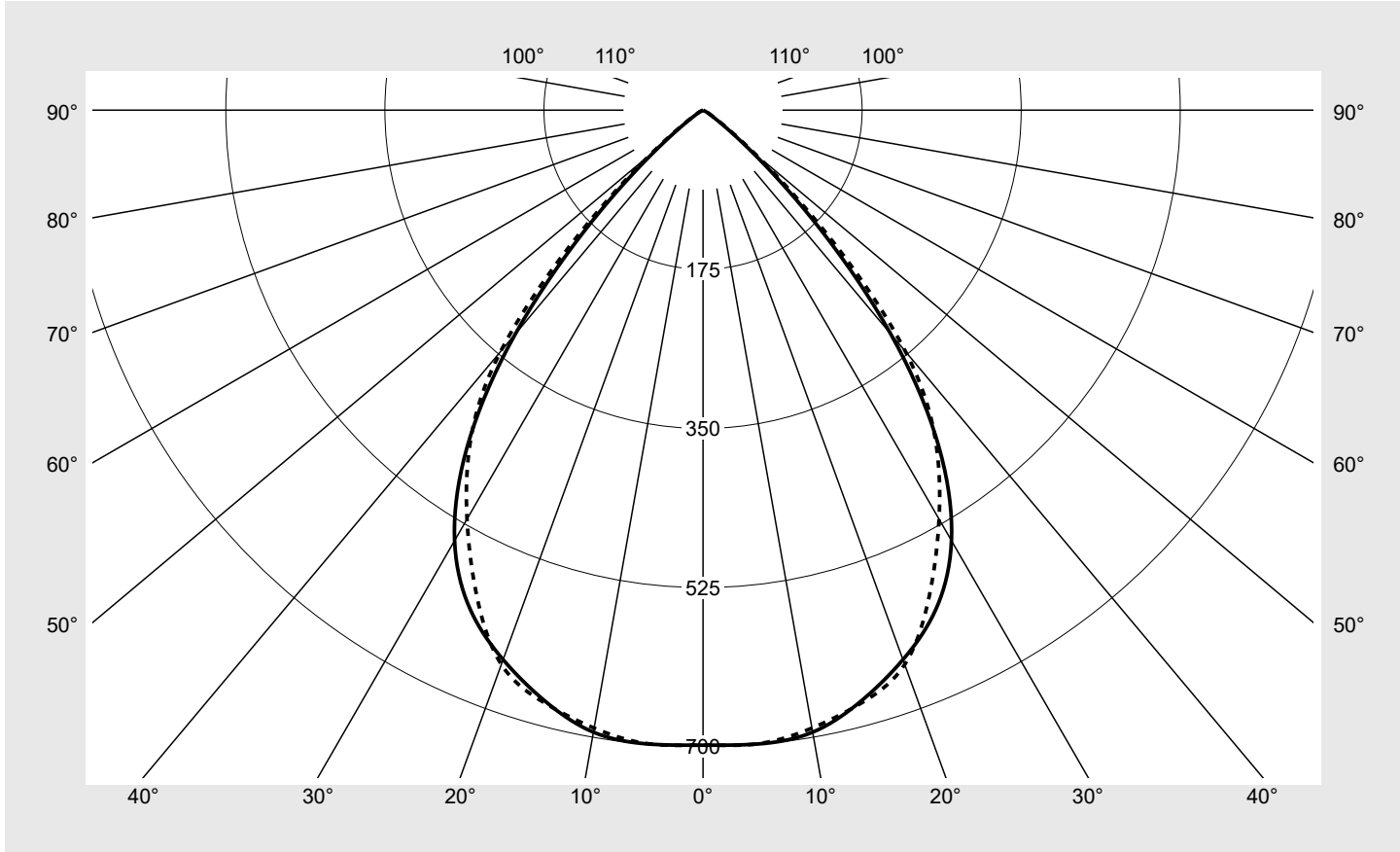


Photometric test report

Family Silica® 21	Order number: 51MX12TCTAW EAN: 4058352807163	LP number 59272_56
	Version recessed luminaire, reflector, black, direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²), tunable white	serial documentation 03.05.2023
	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	

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: 51MX12TCTAW EAN: 4058352807163	LP number 59272_56
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: 51MX12TCTAW EAN: 4058352807163	LP number 59272_56
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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: 51MX12TCTAW EAN: 4058352807163	LP number 59272_56
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

