

Photometric test report

Family
Silica® 21



Order number: 51MX33TBT9S
EAN: 4058352685648

LP number
59332_92

Version Suspended luminaire, with homogeneous illumination, prismatic cover, direct-/ indirect distribution, extremely wide distribution, $UGR \leq 16$ ($L65 \leq 3000 \text{ cd/m}^2$), tunable white

Lamps LED 2700 K | CRI ≥ 80

Controlgear ECG-DALI

Setting individual position

Rated values Net luminous flux = 7170 lm
Power consumption = 76.3 W
Luminous efficacy = 94 lm/W

serial
documentation
03.05.2023

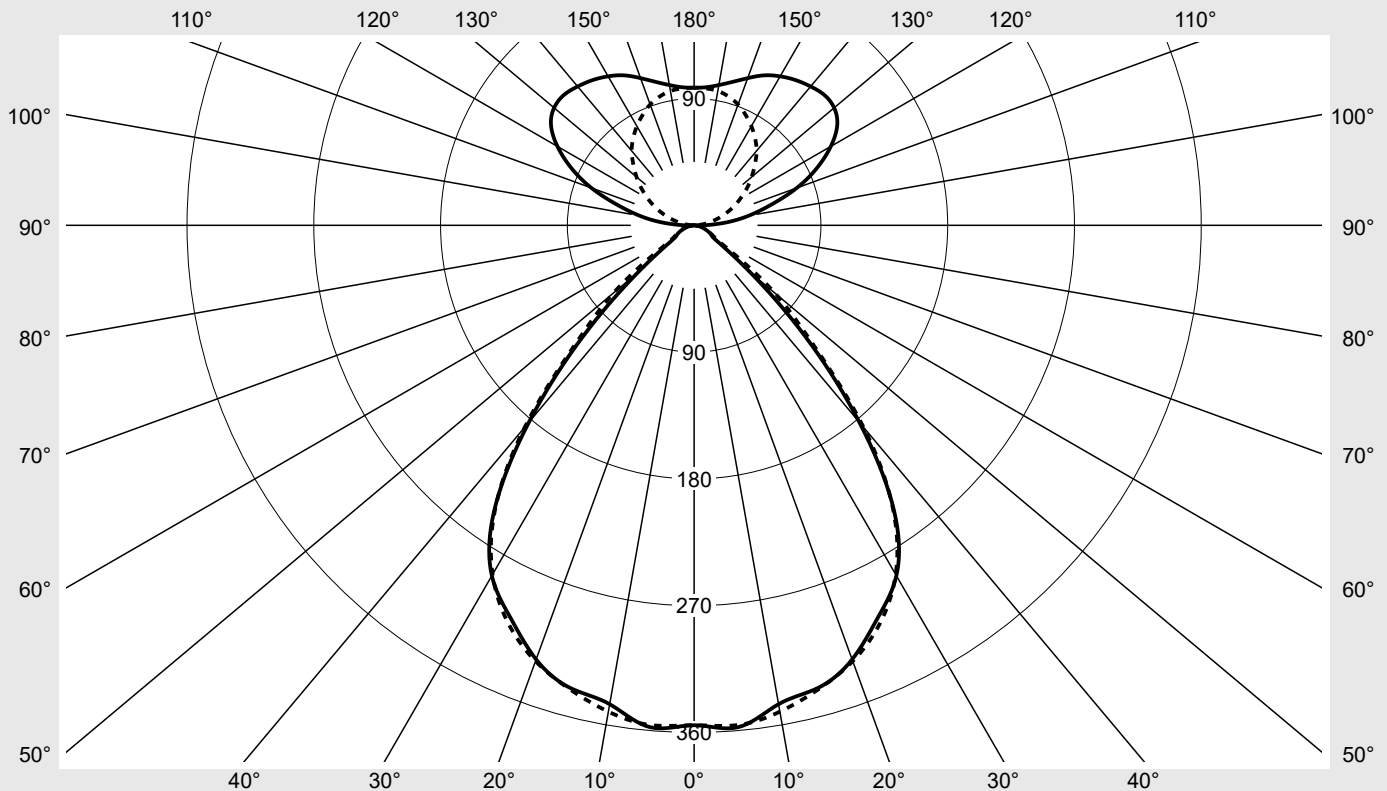
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 358 cd/klm



Classifications

DIN 5040 C 6 2
CIE N1=78 N2=96 N3=99
N4=56 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 56.2%
 ϕ_o 43.8%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21	Order number: 51MX33TBT9S EAN: 4058352685648	LP number 59332_92
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°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	2.1	2.1
5°	357.6	358.3	358.1	358.3	357.8	357.0	356.1	17.1	19.2
10°	345.2	344.3	344.5	346.4	350.1	350.3	350.6	33.1	52.3
15°	340.0	338.8	336.2	336.1	338.1	341.2	341.0	48.0	100.3
20°	328.0	327.2	323.2	324.1	322.5	324.8	329.3	60.9	161.2
25°	307.9	308.7	306.4	306.5	306.8	306.6	312.0	71.2	232.5
30°	287.2	287.0	283.4	284.9	285.2	284.2	286.2	78.2	310.6
35°	247.5	247.0	244.6	246.0	246.7	245.6	246.4	77.4	388.0
40°	182.5	182.1	183.5	184.7	186.1	185.9	187.0	65.0	453.0
45°	111.7	111.4	112.8	114.1	115.4	116.9	119.1	44.3	497.3
50°	52.4	60.7	68.3	62.5	56.3	66.9	74.7	26.5	523.8
55°	21.3	28.6	27.1	30.9	23.3	32.2	30.0	12.6	536.4
60°	14.3	14.9	15.7	14.6	14.6	15.6	16.3	7.2	543.6
65°	11.8	11.7	12.2	11.9	12.4	12.3	12.4	6.0	549.6
70°	8.5	8.7	9.0	9.0	9.2	9.3	9.8	4.7	554.2
75°	5.9	6.2	6.8	6.5	6.6	7.0	7.1	3.5	557.7
80°	3.6	3.8	4.2	4.6	4.2	4.7	4.8	2.3	560.0
85°	1.8	1.8	1.8	2.1	2.2	2.6	2.7	1.2	561.2
90°	6.2	6.0	6.3	6.0	3.5	1.2	0.4	2.4	563.6
95°	22.4	22.9	24.7	23.8	15.7	8.2	4.2	9.9	573.5
100°	39.4	40.6	41.5	37.2	25.7	14.7	9.7	16.6	590.1
105°	56.7	58.1	58.0	51.0	35.4	22.2	16.2	23.0	613.1
110°	77.6	78.3	74.6	63.1	45.4	29.8	23.1	29.3	642.4
115°	96.2	95.7	89.3	74.3	55.1	37.6	30.6	34.4	676.8
120°	112.0	110.6	101.9	83.7	64.3	45.2	37.9	38.0	714.8
125°	124.0	121.0	110.5	92.7	72.3	52.4	45.6	39.9	754.8
130°	129.8	127.1	115.2	98.2	78.4	59.6	53.3	39.9	794.7
135°	130.8	128.1	117.0	101.7	82.9	66.3	61.0	38.2	832.9
140°	128.7	126.6	117.2	103.9	86.2	72.4	69.0	35.5	868.4
145°	125.8	124.5	116.6	104.5	89.3	78.0	75.4	32.1	900.6
150°	122.1	121.5	114.3	103.4	91.6	83.4	81.3	28.1	928.7
155°	117.5	116.9	110.1	102.0	93.3	88.1	86.5	23.6	952.4
160°	111.2	110.8	105.7	100.5	94.8	91.7	91.2	18.9	971.3
165°	105.4	104.8	102.1	98.7	96.3	94.6	94.6	14.1	985.4
170°	101.1	100.5	99.8	98.3	97.2	96.9	96.9	9.4	994.7
175°	98.4	98.3	97.7	97.5	97.5	97.5	97.5	4.7	999.4
180°	97.7	97.7	97.7	97.7	97.7	97.7	97.7	0.6	1000.0

Photometric test report

Family Silica® 21	Order number: 51MX33TBT9S EAN: 4058352685648	LP number 59332_92
-----------------------------	---	------------------------------

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	15.4	16.3	16.3	17.2	18.3	15.6	16.5	16.5	17.4	18.5
	3H	15.3	16.1	16.2	17.0	18.1	15.6	16.4	16.5	17.3	18.4
	4H	15.3	16.0	16.2	16.9	18.1	15.6	16.3	16.5	17.2	18.4
	6H	15.2	15.8	16.1	16.8	17.9	15.6	16.2	16.5	17.1	18.3
	8H	15.1	15.7	16.1	16.7	17.9	15.5	16.0	16.4	17.0	18.2
	12H	15.0	15.6	16.0	16.5	17.8	15.5	16.0	16.4	17.0	18.2
4H	2H	15.2	15.9	16.1	16.8	17.9	15.3	16.0	16.2	16.9	18.1
	3H	15.2	15.8	16.1	16.7	17.9	15.4	16.0	16.3	16.9	18.1
	4H	15.2	15.7	16.1	16.7	17.9	15.4	16.0	16.4	16.9	18.1
	6H	15.2	15.6	16.1	16.6	17.8	15.5	15.9	16.5	16.9	18.1
	8H	15.1	15.5	16.1	16.5	17.8	15.5	15.9	16.5	16.9	18.1
	12H	15.1	15.4	16.0	16.4	17.7	15.5	15.9	16.5	16.8	18.1
8H	4H	15.1	15.5	16.0	16.4	17.7	15.3	15.7	16.2	16.6	17.9
	6H	15.1	15.5	16.1	16.5	17.7	15.4	15.7	16.4	16.7	18.0
	8H	15.1	15.4	16.1	16.4	17.7	15.5	15.8	16.5	16.8	18.1
	12H	15.1	15.3	16.1	16.3	17.6	15.6	15.8	16.6	16.8	18.1
12H	4H	15.0	15.3	16.0	16.3	17.6	15.2	15.5	16.2	16.5	17.8
	6H	15.1	15.3	16.1	16.3	17.6	15.3	15.6	16.4	16.6	17.9
	8H	15.1	15.3	16.1	16.3	17.6	15.4	15.7	16.5	16.7	18.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 50
------------------------	---	--------------------------------------	----------------------------------

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°	15096.2	15063.4	15252.6	15432.3	15599.4	15798.5	16107.6		
50°	7796.1	9031.8	10157.0	9295.6	8377.2	9949.3	11106.9		
55°	3544.6	4774.7	4510.2	5152.5	3891.5	5373.6	4994.7		
60°	2743.3	2847.0	3009.3	2789.4	2799.7	2977.6	3112.2		
65°	2665.2	2644.4	2750.2	2683.1	2796.8	2792.5	2813.1		
70°	2384.3	2429.0	2527.4	2527.1	2567.1	2596.4	2730.3		
75°	2189.3	2272.4	2504.0	2391.3	2446.7	2571.6	2633.6		
80°	1977.5	2094.8	2310.6	2514.9	2332.6	2602.4	2664.6		
85°	1922.8	1949.2	2026.0	2345.1	2462.5	2817.9	2937.5		

Photometric test report

Family Silica® 21	Order number: 51MX33TBT9S EAN: 4058352685648	LP number 59332_92
------------------------------------	---	-------------------------------------



Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
--------------	--------------	--------------	--------------	--------------

