

Photometric test report

Family
Silica® 21

Order number: 51MX33TAT7W
EAN: 4058352685600

LP number
59332_29



Version Suspended luminaire, with homogeneous illumination, prismatic cover, direct-/ indirect distribution, extremely wide distribution, UGR≤16 (L65≤3000cd/m²), tunable white

Lamps LED 2700 K | CRI ≥ 80

Controlgear ECG-DALI

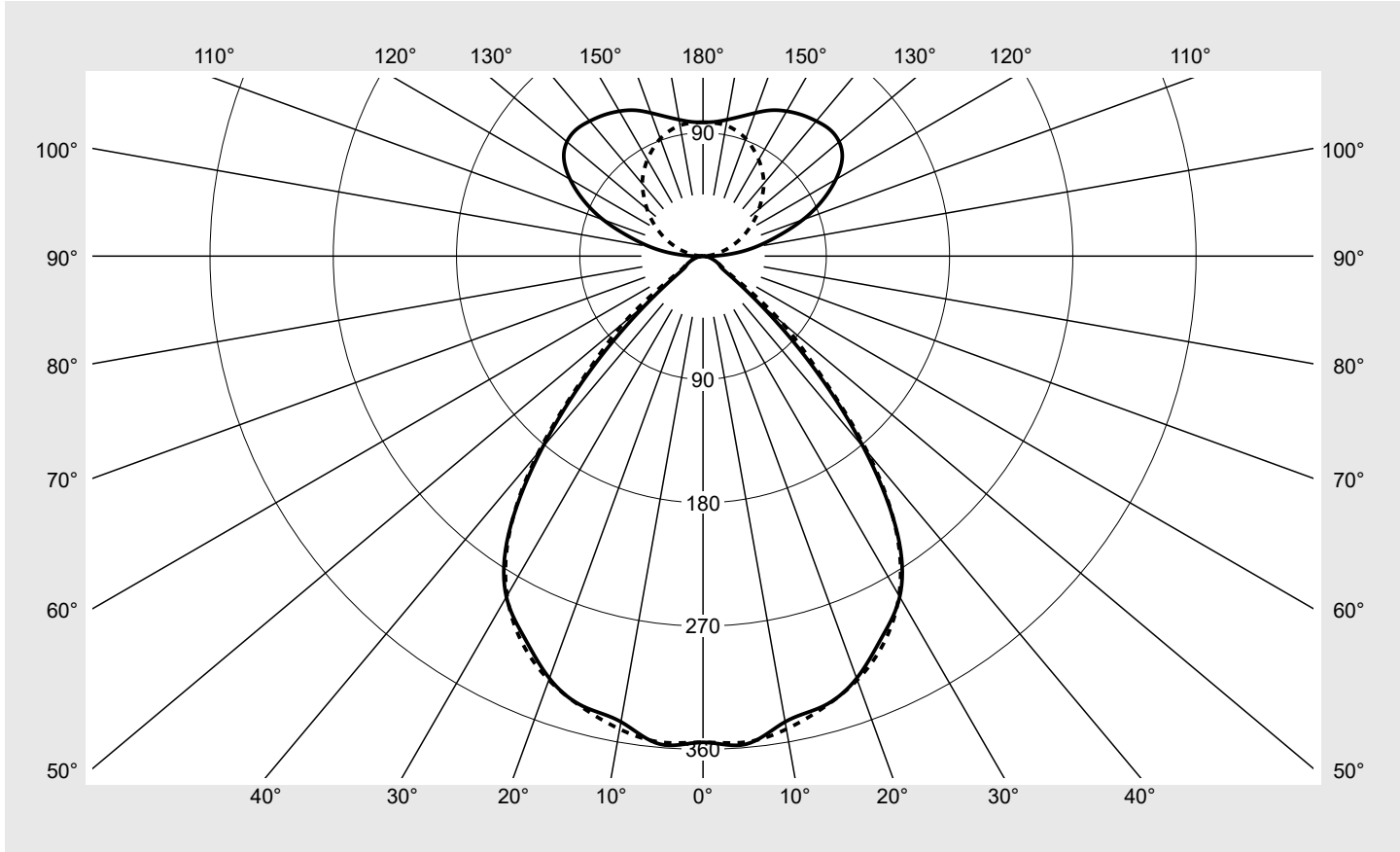
Setting individual position

Rated values Net luminous flux = 5740 lm
Power consumption = 61.0 W
Luminous efficacy = 94.1 lm/W

serial documentation
03.05.2023



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: 51MX33TAT7W EAN: 4058352685600	LP number 59332_29
Table of values for luminous intensities		
Maximum luminous intensity		

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: 51MX33TAT7W EAN: 4058352685600	LP number 59332_29
-----------------------------	---	------------------------------

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	16.1	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 = 1200
			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°		15106.7	15074.0	15263.2	15443.0	15610.3	15809.5	16118.8	
50°		7801.6	9038.1	10164.1	9302.1	8383.0	9956.2	11114.7	
55°		3547.1	4778.0	4513.3	5156.1	3894.2	5377.3	4998.2	
60°		2745.3	2849.0	3011.4	2791.4	2801.7	2979.6	3114.3	
65°		2667.1	2646.2	2752.2	2684.9	2798.8	2794.5	2815.1	
70°		2385.9	2430.7	2529.1	2528.9	2568.9	2598.2	2732.2	
75°		2190.8	2273.9	2505.7	2393.0	2448.4	2573.3	2635.4	
80°		1978.9	2096.3	2312.2	2516.6	2334.3	2604.2	2666.5	
85°		1924.2	1950.5	2027.4	2346.8	2464.2	2819.9	2939.5	

Photometric test report

Family Silica® 21	Order number: 51MX33TAT7W EAN: 4058352685600	LP number 59332_29
------------------------------------	---	-------------------------------------

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

