

Photometric test report

Family
Silica® 21



Order number: **51MX32TBT9W**
EAN: **4058352685556**

LP number
59308_40

serial
documentation
03.05.2023

Version Suspended luminaire, reflector, black, direct-/indirect distribution, wide distribution, $UGR \leq 16$ ($L65 \leq 1000 \text{ cd/m}^2$), tunable white

Lamps LED 6500 K | CRI ≥ 80

Controlgear ECG-DALI

Setting individual position

Rated values Net luminous flux = 7770 lm
Power consumption = 66.8 W
Luminous efficacy = 116.3 lm/W

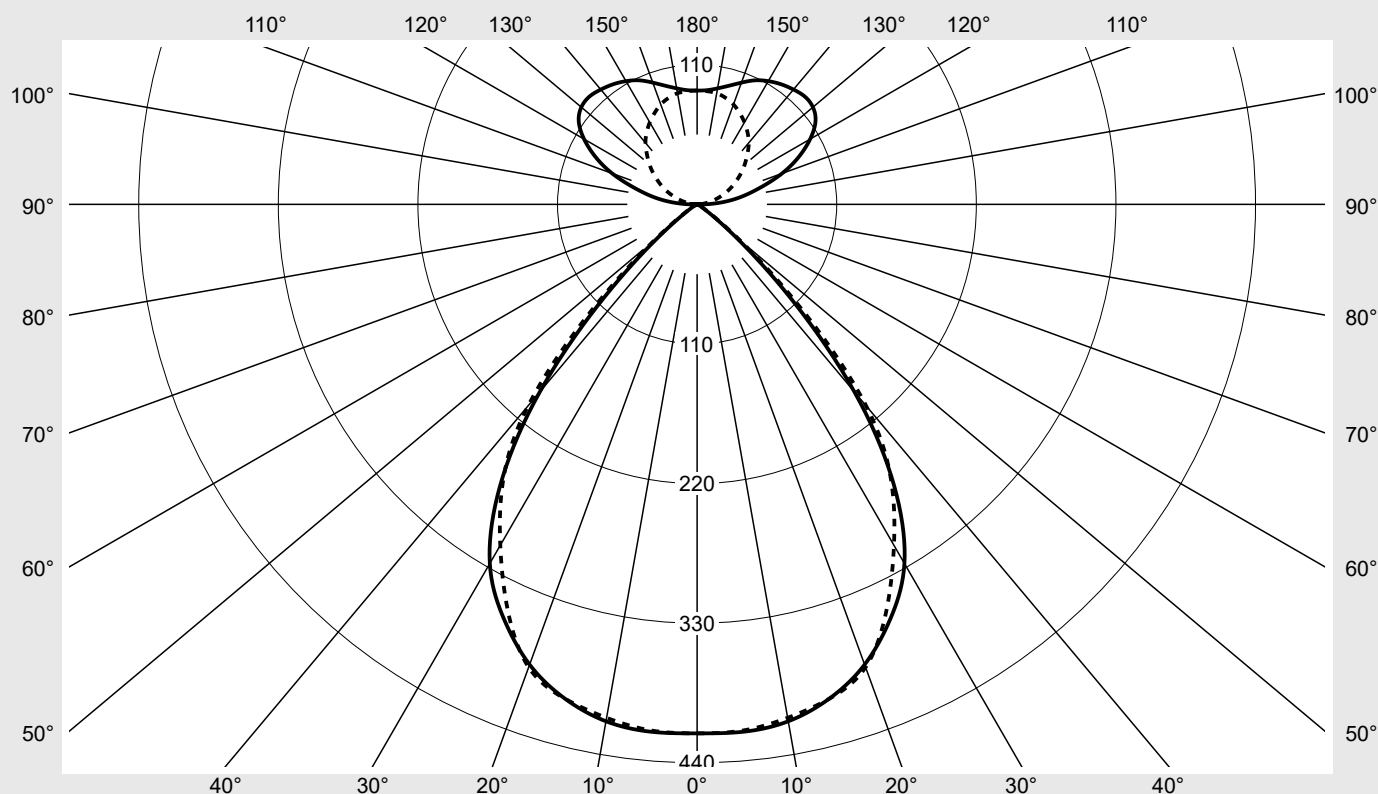
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 417 cd/klm



Classifications

DIN 5040 C 6 2
CIE N1=84 N2=99 N3=100
N4=60 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 59.8%
 ϕ_o 40.2%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21	Order number: 51MX32TBT9W EAN: 4058352685556	LP number 59308_40
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	416.8	416.8	416.8	416.8	416.8	416.8	416.8	2.5	2.5
5°	417.1	417.5	416.5	416.2	416.3	416.7	416.1	19.9	22.4
10°	413.6	412.9	413.2	414.2	413.9	410.5	410.8	39.3	61.7
15°	403.1	404.2	404.4	407.9	407.9	405.2	403.1	57.5	119.2
20°	385.9	389.4	389.1	391.3	390.8	389.3	388.1	73.0	192.2
25°	360.3	366.3	366.3	363.6	359.7	355.9	353.0	83.7	276.0
30°	326.7	332.1	328.6	321.6	313.5	309.5	310.2	87.9	363.8
35°	270.7	274.1	269.6	265.1	262.0	263.6	266.8	84.0	447.8
40°	192.8	195.2	197.3	201.1	204.8	204.8	207.1	70.6	518.5
45°	103.1	111.4	121.6	126.0	125.3	116.8	115.4	45.9	564.4
50°	37.9	43.7	52.7	56.6	56.5	46.6	44.0	20.8	585.2
55°	10.5	13.2	18.0	22.2	19.8	14.1	12.7	7.4	592.6
60°	3.5	4.2	6.4	8.4	6.8	5.0	4.9	2.8	595.3
65°	1.3	1.5	2.2	2.9	2.5	2.0	1.9	1.0	596.4
70°	0.8	0.9	0.7	0.6	0.8	1.0	1.0	0.4	596.8
75°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.1	596.9
80°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	597.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	597.2
90°	5.7	5.5	5.8	5.6	3.2	1.1	0.4	2.2	599.4
95°	20.6	21.0	22.7	21.8	14.4	7.5	3.9	9.1	608.5
100°	36.2	37.3	38.1	34.2	23.6	13.5	8.9	15.2	623.7
105°	52.0	53.4	53.2	46.8	32.5	20.4	14.9	21.2	644.8
110°	71.2	71.9	68.5	57.9	41.7	27.4	21.2	26.9	671.7
115°	88.3	87.9	82.0	68.2	50.5	34.5	28.1	31.6	703.3
120°	102.8	101.5	93.6	76.8	59.0	41.5	34.8	34.9	738.2
125°	113.9	111.0	101.5	85.1	66.4	48.1	41.9	36.7	774.9
130°	119.1	116.6	105.7	90.2	72.0	54.7	49.0	36.6	811.5
135°	120.1	117.6	107.4	93.4	76.1	60.8	56.0	35.1	846.6
140°	118.1	116.2	107.6	95.4	79.2	66.4	63.3	32.6	879.2
145°	115.5	114.2	107.0	95.9	82.0	71.6	69.2	29.5	908.7
150°	112.1	111.5	104.9	94.9	84.1	76.5	74.6	25.8	934.6
155°	107.8	107.3	101.1	93.7	85.6	80.9	79.4	21.7	956.3
160°	102.1	101.7	97.0	92.3	87.0	84.2	83.8	17.3	973.6
165°	96.8	96.2	93.8	90.6	88.4	86.9	86.8	12.9	986.6
170°	92.8	92.3	91.6	90.3	89.2	88.9	88.9	8.6	995.2
175°	90.3	90.2	89.7	89.5	89.5	89.5	89.5	4.3	999.5
180°	89.7	89.7	89.7	89.7	89.7	89.7	89.7	0.5	1000.0

Photometric test report

Family Silica® 21			Order number: 51MX32TBT9W EAN: 4058352685556							LP number 59308_40		
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
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		15.9	16.8	16.8	17.6	18.7	16.0	16.9	16.9	17.7	18.8
	3H		15.7	16.4	16.5	17.3	18.4	15.8	16.6	16.6	17.4	18.5
	4H		15.5	16.2	16.4	17.1	18.2	15.6	16.4	16.5	17.2	18.3
	6H		15.3	15.9	16.2	16.8	18.0	15.5	16.1	16.4	17.0	18.1
	8H		15.2	15.8	16.2	16.7	17.9	15.3	15.9	16.2	16.8	18.0
	12H		15.1	15.6	16.1	16.6	17.7	15.3	15.8	16.2	16.7	17.9
4H	2H		15.6	16.3	16.4	17.1	18.2	15.6	16.3	16.5	17.2	18.3
	3H		15.3	15.9	16.2	16.8	17.9	15.4	16.0	16.3	16.9	18.0
	4H		15.1	15.7	16.1	16.6	17.7	15.2	15.8	16.2	16.7	17.8
	6H		15.0	15.4	15.9	16.3	17.5	15.1	15.5	16.0	16.4	17.6
	8H		14.9	15.3	15.8	16.2	17.4	15.0	15.4	15.9	16.3	17.5
	12H		14.8	15.1	15.7	16.1	17.3	14.9	15.2	15.9	16.2	17.4
8H	4H		14.9	15.3	15.8	16.2	17.4	15.0	15.4	15.9	16.3	17.5
	6H		14.8	15.1	15.7	16.0	17.3	14.8	15.1	15.8	16.1	17.3
	8H		14.7	15.0	15.6	15.9	17.2	14.8	15.1	15.7	16.0	17.3
	12H		14.6	14.8	15.6	15.8	17.0	14.7	14.9	15.7	15.9	17.1
12H	4H		14.8	15.1	15.8	16.1	17.3	14.9	15.2	15.8	16.2	17.4
	6H		14.6	14.9	15.6	15.9	17.1	14.7	15.0	15.7	16.0	17.2
	8H		14.6	14.8	15.6	15.8	17.0	14.7	14.9	15.7	15.9	17.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1470 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°	15735.1	17001.5	18543.7	19222.8	19109.3	17818.7	17598.3
50°	6360.3	7340.6	8839.2	9500.7	9489.1	7812.1	7387.2
55°	1971.0	2491.3	3389.4	4176.6	3716.8	2655.3	2385.8
60°	763.9	916.7	1371.0	1821.1	1475.7	1088.2	1052.2
65°	325.7	384.7	556.4	734.9	641.7	499.8	485.0
70°	256.4	273.1	207.5	204.1	246.6	318.2	326.4
75°	75.9	100.9	84.2	117.5	109.2	128.4	116.3
80°	21.1	24.8	35.4	46.0	60.3	70.8	73.9
85°	475.3	479.0	480.2	460.4	446.8	459.2	466.6

Photometric test report

Family Silica® 21	Order number: 51MX32TBT9W EAN: 4058352685556	LP number 59308_40	
Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°			siteco

