

Photometric test report

Family
Silica® 21



Order number: **51MX30TAT4B**
EAN: **4058352685204**

LP number
59412_57

serial
documentation
03.05.2023

Version Suspended luminaire, with homogeneous illumination, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤25, tunable white

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting factory setting

Rated values Net luminous flux = 4120 lm
Power consumption = 35.5 W
Luminous efficacy = 116.1 lm/W

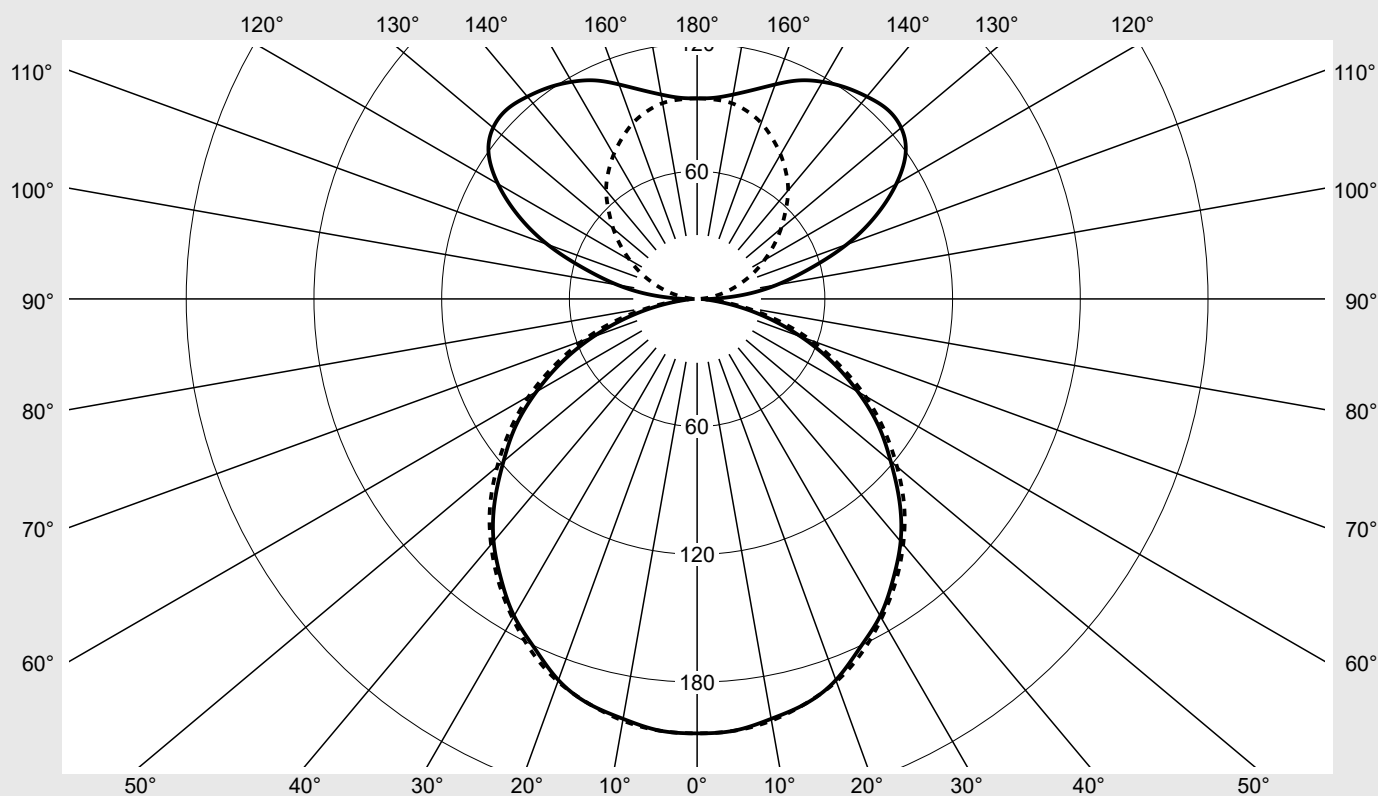
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 204 cd/klm



Classifications

DIN 5040 C 4 2
CIE N1=47 N2=79 N3=96
N4=58 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 57.8%
 ϕ_o 42.2%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
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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°	204.1	204.1	204.1	204.1	204.1	204.1	204.1	1.2	1.2
5°	203.5	203.8	203.3	203.3	203.4	203.8	203.6	9.7	10.9
10°	200.3	199.9	199.8	200.3	201.2	200.6	201.1	19.1	30.0
15°	196.9	196.3	195.1	196.0	196.7	197.0	196.8	27.9	57.9
20°	190.5	190.1	188.7	189.7	189.8	190.2	191.2	35.6	93.5
25°	180.9	181.1	180.3	181.3	182.3	182.2	183.2	42.1	135.5
30°	172.0	171.7	170.5	171.9	173.3	173.2	173.3	47.2	182.7
35°	160.6	160.7	159.7	160.3	160.9	161.7	162.5	50.6	233.3
40°	148.7	148.4	148.5	148.2	149.1	149.3	150.6	52.5	285.7
45°	134.5	134.5	134.8	134.8	135.4	135.8	137.6	52.4	338.1
50°	118.7	119.6	120.0	120.5	121.6	121.8	122.6	50.7	388.8
55°	104.0	104.1	104.8	105.3	106.3	106.3	107.2	47.3	436.2
60°	87.2	87.5	88.1	88.4	89.8	89.9	91.2	42.2	478.3
65°	70.0	70.7	71.5	72.5	73.2	73.9	73.9	35.9	514.2
70°	52.0	53.0	53.5	54.9	56.0	56.6	57.0	28.2	542.4
75°	34.3	35.1	35.7	36.9	38.2	39.1	39.4	19.6	562.0
80°	18.0	18.4	19.0	19.8	21.0	21.9	22.2	10.8	572.8
85°	5.8	6.0	6.3	6.8	7.4	8.1	8.3	3.8	576.6
90°	6.3	6.1	6.5	6.3	3.9	1.8	1.1	2.6	579.2
95°	21.6	22.1	23.8	22.9	15.1	7.9	4.1	9.5	588.7
100°	38.0	39.1	40.0	35.9	24.8	14.2	9.4	16.0	604.7
105°	54.7	56.0	55.9	49.2	34.1	21.4	15.7	22.2	626.9
110°	74.8	75.5	71.9	60.8	43.8	28.8	22.2	28.3	655.2
115°	92.7	92.3	86.1	71.6	53.1	36.3	29.5	33.2	688.4
120°	108.0	106.6	98.3	80.7	62.0	43.6	36.5	36.7	725.0
125°	119.6	116.6	106.6	89.4	69.8	50.5	44.0	38.5	763.5
130°	125.1	122.5	111.1	94.7	75.6	57.5	51.4	38.5	802.0
135°	126.1	123.5	112.8	98.1	79.9	63.9	58.8	36.9	838.9
140°	124.1	122.0	113.0	100.2	83.2	69.8	66.5	34.3	873.1
145°	121.3	120.0	112.4	100.8	86.1	75.2	72.7	31.0	904.1
150°	117.8	117.1	110.2	99.7	88.4	80.4	78.4	27.1	931.3
155°	113.3	112.8	106.2	98.4	90.0	85.0	83.4	22.8	954.1
160°	107.2	106.9	101.9	96.9	91.4	88.5	88.0	18.2	972.3
165°	101.6	101.0	98.5	95.2	92.8	91.2	91.2	13.6	985.9
170°	97.5	97.0	96.2	94.8	93.7	93.4	93.4	9.1	994.9
175°	94.9	94.8	94.2	94.0	94.0	94.0	94.0	4.5	999.4
180°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	0.6	1000.0

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UGR-Table			Standard room							sitemco		
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		18.5	19.6	19.3	20.4	21.5	18.7	19.7	19.5	20.6	21.6
	3H		19.9	20.8	20.8	21.7	22.8	20.2	21.2	21.1	22.0	23.1
	4H		20.4	21.3	21.3	22.1	23.3	20.8	21.7	21.7	22.6	23.7
	6H		20.6	21.4	21.5	22.3	23.5	21.1	21.9	22.0	22.8	24.0
	8H		20.6	21.4	21.5	22.3	23.5	21.1	21.9	22.0	22.8	24.0
	12H		20.6	21.3	21.5	22.2	23.4	21.2	21.9	22.1	22.8	24.0
4H	2H		19.1	20.0	20.0	20.9	22.0	19.2	20.1	20.1	20.9	22.1
	3H		20.7	21.4	21.6	22.3	23.5	20.9	21.6	21.8	22.5	23.7
	4H		21.3	21.9	22.2	22.8	24.0	21.6	22.3	22.5	23.2	24.4
	6H		21.6	22.1	22.5	23.1	24.3	22.1	22.6	23.0	23.6	24.8
	8H		21.7	22.2	22.6	23.1	24.3	22.2	22.7	23.1	23.6	24.9
	12H		21.6	22.1	22.6	23.0	24.3	22.2	22.7	23.2	23.6	24.9
8H	4H		21.4	22.0	22.4	22.9	24.1	21.7	22.2	22.7	23.2	24.4
	6H		21.9	22.3	22.9	23.3	24.5	22.3	22.7	23.3	23.7	24.9
	8H		22.0	22.4	23.0	23.4	24.6	22.5	22.9	23.5	23.9	25.1
	12H		22.0	22.3	23.0	23.3	24.6	22.6	22.9	23.6	23.9	25.2
12H	4H		21.4	21.8	22.4	22.8	24.1	21.7	22.1	22.6	23.1	24.3
	6H		21.9	22.3	22.9	23.2	24.5	22.3	22.6	23.3	23.6	24.9
	8H		22.0	22.3	23.0	23.3	24.6	22.5	22.8	23.5	23.8	25.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1200 B = 50	
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°
			Luminance in cd/m²				
45° 50° 55° 60°	γ	13056.9	13064.8	13089.5	13091.1	13149.4	13184.0
		12684.2	12780.7	12817.0	12871.3	12990.5	13013.1
		12454.4	12468.3	12543.2	12605.7	12721.9	12722.9
		11975.5	12023.3	12093.0	12140.8	12334.0	12350.5
65° 70° 75° 80°	γ	11373.7	11487.6	11620.0	11774.2	11887.0	12006.4
		10439.1	10635.5	10743.7	11017.5	11233.4	11371.9
		9099.0	9314.4	9464.8	9792.2	10122.5	10385.5
		7119.8	7256.2	7506.2	7831.2	8302.6	8656.9
85°	γ	4582.2	4744.5	5001.3	5371.6	5850.7	6349.4

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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