

Photometric test report

Family
Silica® 21



Order number: **51MX30TCT9W**
EAN: **4058352795835**

LP number
59412_48

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 = 10300 lm
Power consumption = 88.7 W
Luminous efficacy = 116.1 lm/W

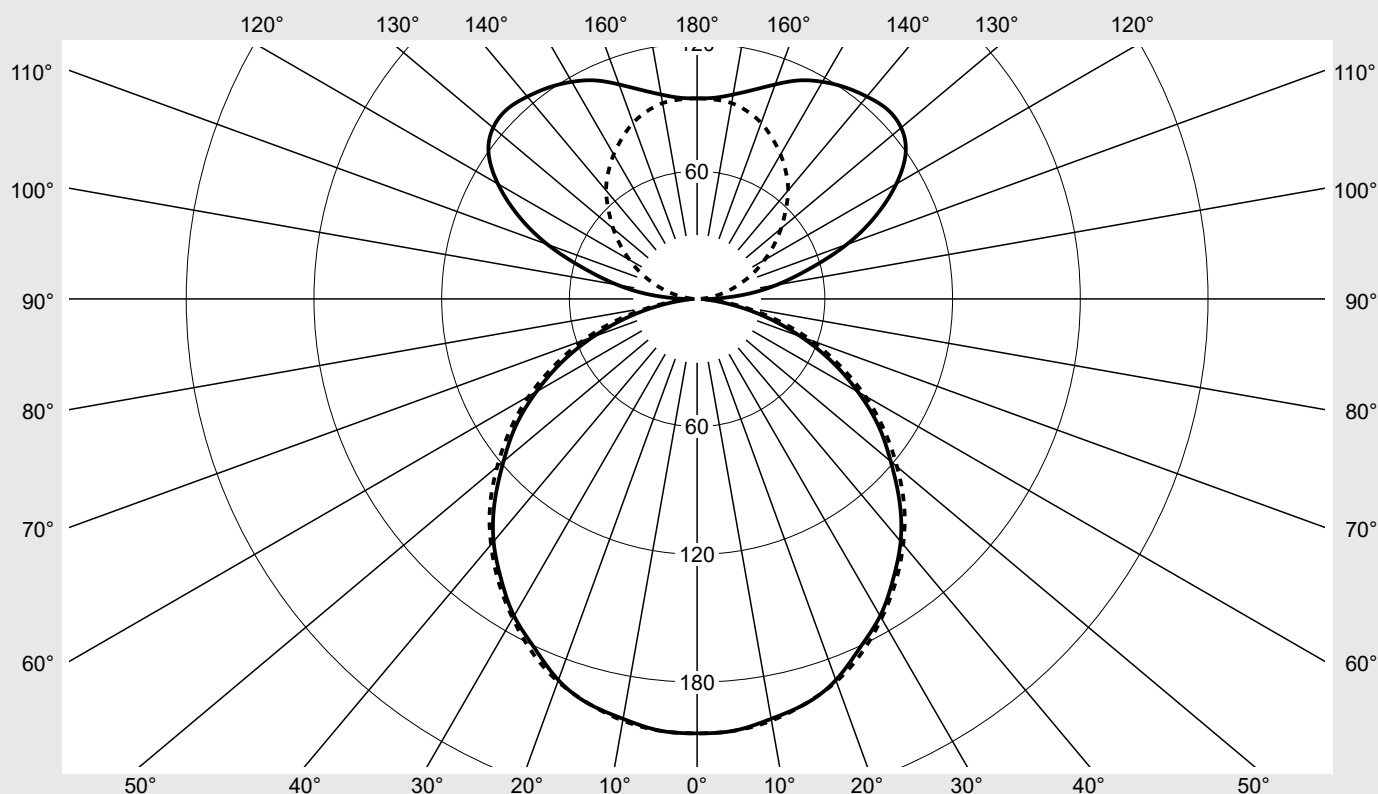
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Luminous intensity in cd/klm

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							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	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 = 3000 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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