

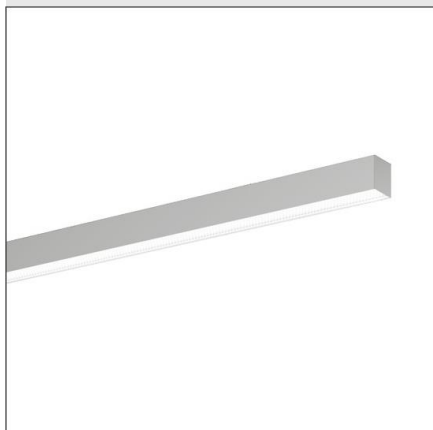
Photometric test report

Family
Silica® 21

Order number: 51MX20DA42SB
EAN: 4058352898581

LP number
60289_78

serial
documentation
23.06.2026



Version surface-mounted luminaire, with homogeneous illumination, cover, opal, direct distribution, extremely wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 2400 lm
Power consumption = 15.2 W
Luminous efficacy = 157.9 lm/W

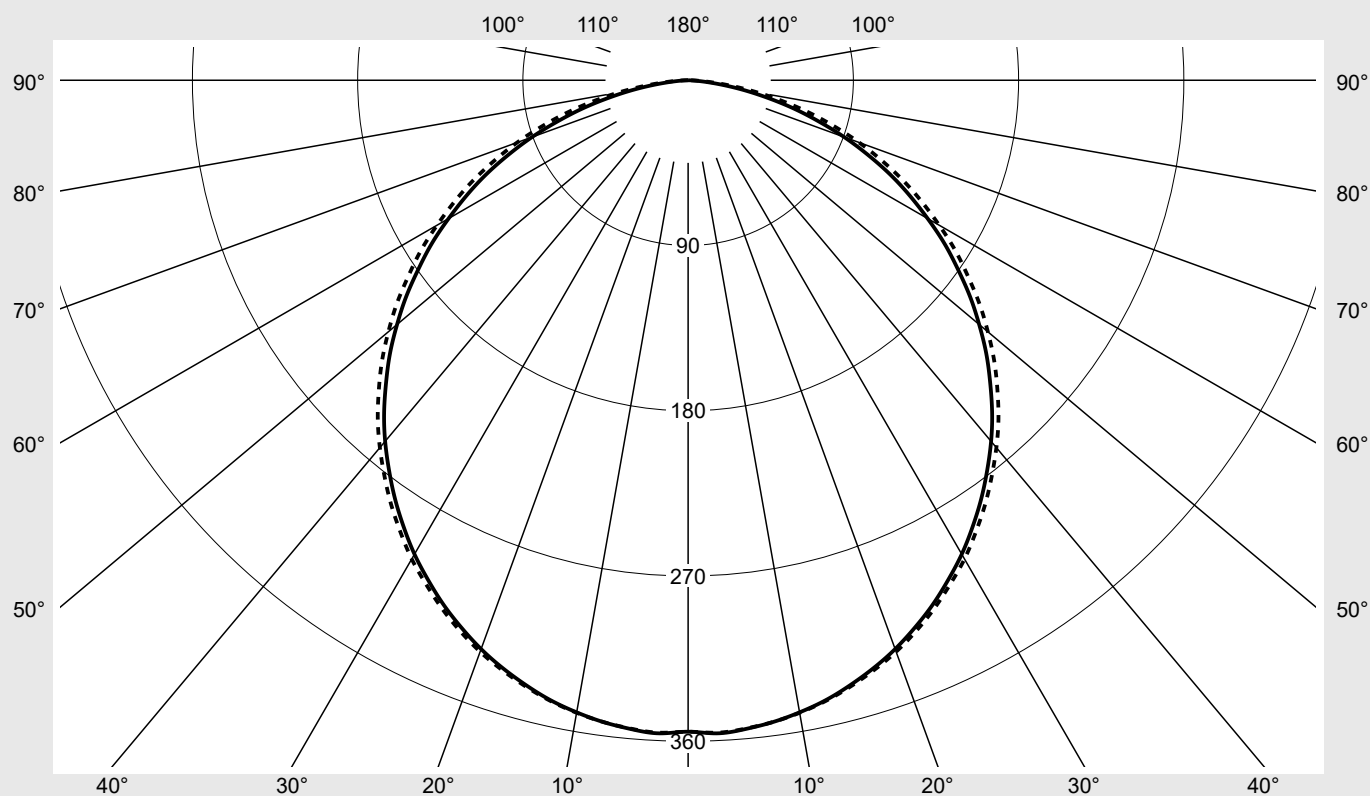
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 356 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=48 N2=79 N3=96
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

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	
0,0°	354.8	354.8	354.8	354.8	354.8	354.8	354.8	0.5	0.5
2,5°	356.1	354.8	352.5	354.0	355.5	355.5	355.7	4.2	4.8
5,0°	354.8	353.6	351.3	352.8	354.4	354.3	354.5	8.4	13.2
7,5°	352.6	351.6	349.3	350.8	352.4	352.4	352.6	12.6	25.8
10,0°	349.6	348.7	346.4	347.9	349.6	349.5	349.8	16.6	42.4
12,5°	345.9	345.1	342.8	344.3	346.0	346.1	346.3	20.5	62.9
15,0°	341.1	340.5	338.2	339.7	341.5	341.5	341.8	24.2	87.0
17,5°	335.7	335.3	333.0	334.5	336.3	336.5	336.8	27.6	114.7
20,0°	329.7	329.5	327.3	328.8	330.6	330.8	331.2	30.9	145.6
22,5°	322.7	322.7	320.5	321.8	323.8	324.1	324.6	33.9	179.4
25,0°	315.2	315.4	313.2	314.5	316.5	316.9	317.4	36.5	216.0
27,5°	306.8	307.2	305.0	306.3	308.3	308.8	309.3	38.9	254.9
30,0°	298.1	298.7	296.7	297.9	300.0	300.4	301.1	41.0	295.8
32,5°	288.4	289.2	287.3	288.3	290.3	291.0	291.7	42.6	338.5
35,0°	278.3	279.3	277.6	278.6	280.5	281.2	282.0	44.0	382.4
37,5°	267.6	268.7	267.4	268.1	269.9	270.9	271.7	44.9	427.3
40,0°	256.7	257.8	256.8	257.2	259.2	260.2	261.2	45.5	472.8
42,5°	245.1	246.2	245.5	245.9	247.7	248.9	250.2	45.7	518.6
45,0°	232.6	233.7	233.4	233.7	235.5	236.5	238.2	45.5	564.1
47,5°	220.2	221.3	221.5	221.8	223.4	224.3	226.1	45.0	609.1
50,0°	206.9	207.8	208.6	208.9	210.4	211.2	213.1	44.0	653.1
52,5°	193.6	194.4	195.5	195.9	197.4	198.1	200.0	42.7	695.8
55,0°	179.3	180.3	181.6	182.1	183.6	184.1	186.0	41.0	736.7
57,5°	165.5	166.5	167.9	168.6	170.2	170.7	172.6	39.0	775.8
60,0°	150.7	151.9	153.3	154.2	155.7	156.4	157.9	36.6	812.4
62,5°	136.1	137.6	139.1	140.1	141.6	142.5	143.6	34.1	846.5
65,0°	121.4	123.0	124.5	125.7	127.6	128.3	129.2	31.2	877.7
67,5°	105.8	107.6	108.8	110.4	112.5	113.4	114.1	28.0	905.7
70,0°	90.4	92.3	93.2	95.3	97.3	98.6	99.1	24.5	930.2
72,5°	74.6	76.3	77.1	79.6	81.4	83.0	83.4	20.8	951.0
75,0°	59.7	61.0	61.9	64.2	66.4	67.9	68.3	17.0	968.0
77,5°	44.5	45.5	46.7	48.5	50.7	52.4	53.0	13.0	981.0
80,0°	30.9	31.6	32.8	34.2	36.1	37.8	38.5	9.3	990.3
82,5°	18.3	18.8	19.8	20.9	22.6	24.0	24.6	5.8	996.1
85,0°	8.6	8.8	9.5	10.4	11.4	12.6	13.2	2.9	999.0
87,5°	2.4	2.6	2.9	3.4	4.1	4.7	5.1	1.0	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	21.2	22.8	21.5	23.2	23.5	21.3	23.0	21.7	23.3	23.6
	3H	22.7	24.2	23.1	24.6	24.9	23.0	24.5	23.4	24.8	25.2
	4H	23.3	24.7	23.7	25.0	25.4	23.6	25.1	24.0	25.4	25.8
	6H	23.6	24.9	24.0	25.3	25.7	24.1	25.4	24.5	25.8	26.2
	8H	23.7	25.0	24.1	25.3	25.7	24.2	25.5	24.7	25.9	26.3
	12H	23.7	24.9	24.2	25.3	25.7	24.3	25.5	24.7	25.9	26.3
4H	2H	21.9	23.4	22.3	23.7	24.1	22.1	23.5	22.5	23.9	24.2
	3H	23.7	24.9	24.1	25.3	25.7	23.9	25.1	24.3	25.5	25.9
	4H	24.3	25.4	24.8	25.8	26.3	24.7	25.8	25.1	26.2	26.6
	6H	24.8	25.7	25.2	26.1	26.6	25.2	26.2	25.7	26.6	27.1
	8H	24.9	25.7	25.3	26.2	26.7	25.4	26.3	25.9	26.7	27.2
	12H	24.9	25.7	25.4	26.2	26.7	25.5	26.3	26.0	26.7	27.2
8H	4H	24.7	25.5	25.1	26.0	26.4	25.0	25.8	25.4	26.3	26.7
	6H	25.2	25.9	25.7	26.4	26.9	25.6	26.3	26.1	26.8	27.3
	8H	25.3	26.0	25.8	26.4	27.0	25.8	26.5	26.3	26.9	27.5
	12H	25.4	25.9	25.9	26.4	27.0	26.0	26.5	26.5	27.0	27.5
12H	4H	24.7	25.5	25.2	25.9	26.4	25.0	25.8	25.5	26.2	26.7
	6H	25.3	25.9	25.8	26.4	26.9	25.7	26.3	26.2	26.8	27.3
	8H	25.4	26.0	25.9	26.4	27.0	25.9	26.4	26.4	26.9	27.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1200 B = 50	
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°
		Luminance in cd/m²					
γ							
45,0°	13160.1	13222.6	13203.5	13219.7	13323.3	13379.9	13476.2
50,0°	12877.6	12934.2	12979.5	13000.5	13092.7	13144.4	13262.5
55,0°	12506.8	12573.9	12661.7	12698.0	12802.2	12841.2	12974.4
60,0°	12052.0	12151.8	12263.0	12334.7	12457.4	12509.4	12634.1
65,0°	11491.6	11642.8	11786.7	11895.0	12077.0	12141.0	12231.9
70,0°	10576.8	10798.7	10901.9	11143.6	11385.2	11526.6	11585.8
75,0°	9225.4	9420.3	9562.8	9920.3	10261.7	10492.7	10555.0
80,0°	7111.6	7282.3	7551.8	7875.0	8326.7	8713.0	8865.5
85,0°	3924.0	4055.3	4347.2	4770.8	5242.1	5790.6	6058.6

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Luminance values in cd/m²

γ 65°

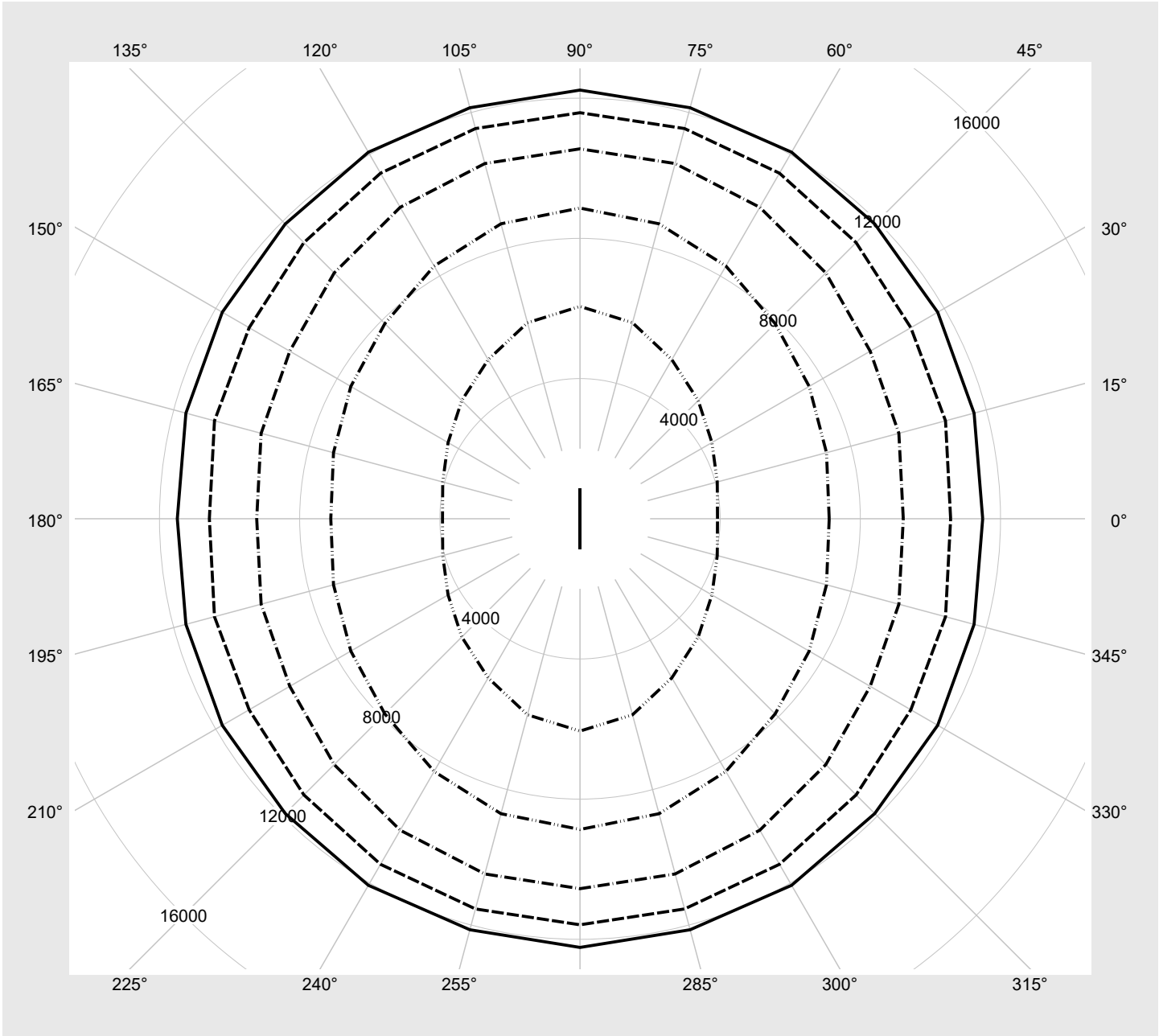
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2400	15.2
95	241	252	2280	14.4
90	228	250	2160	13.7
85	215	248	2040	12.9
80	202	246	1919	12.1
75	189	243	1798	11.4
70	176	241	1676	10.6
65	164	238	1564	10.0
60	151	235	1442	9.2
55	138	232	1319	8.5
50	125	228	1195	7.8
45	113	224	1082	7.1
40	100	220	958	6.4
35	88	215	843	5.8
30	75	209	718	5.0
25	63	203	602	4.4
20	50	194	477	3.6
15	38	184	360	3.0
10	26	171	244	2.2
5	14	148	128	1.3