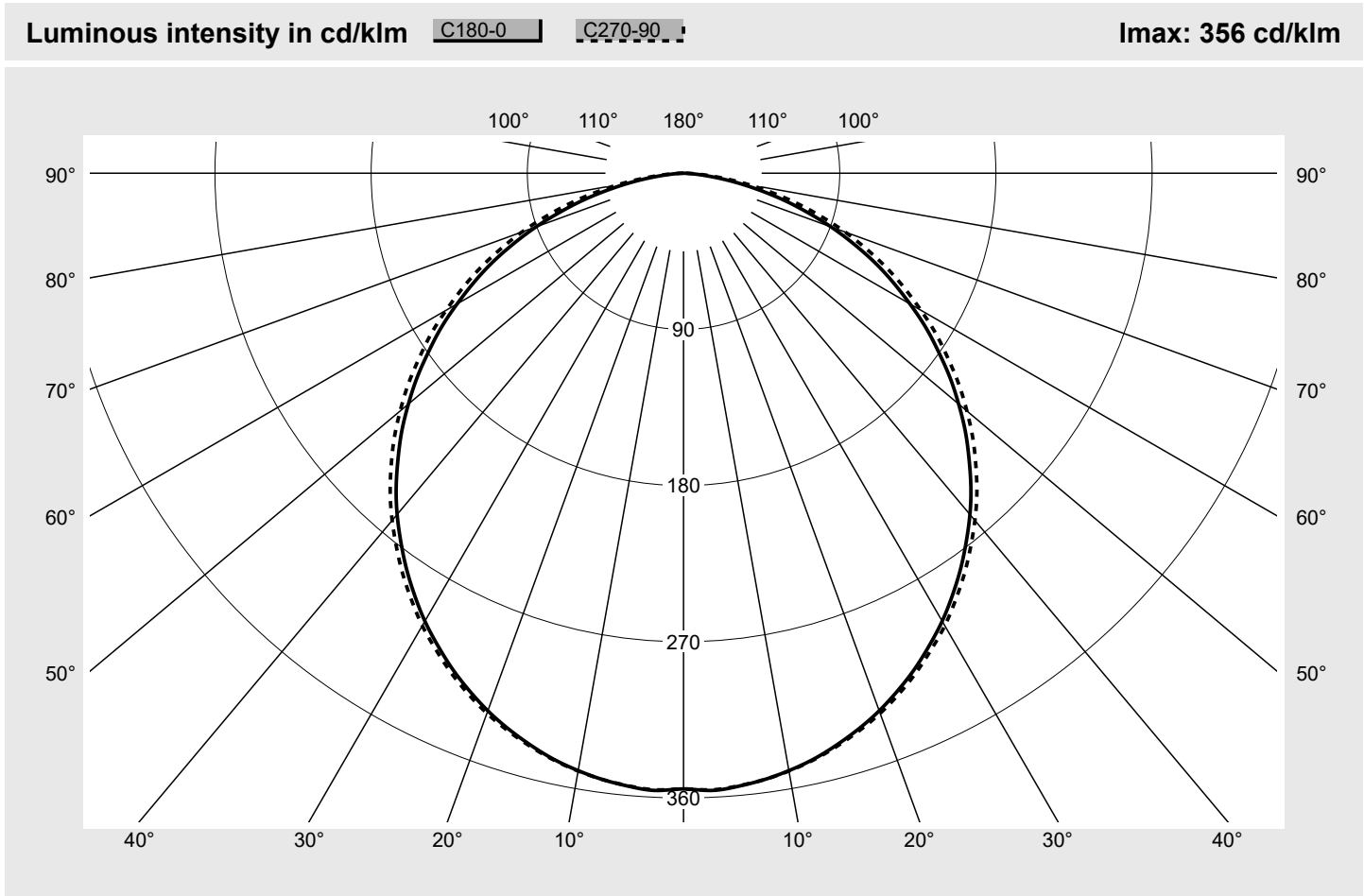


Photometric test report

Family Silica® 21	Order number: 51MX20DA32BB EAN: 4058352898505	LP number 60289_77
	Version	surface-mounted luminaire, with homogeneous illumination, cover, opal, direct distribution, extremely wide distribution
	Lamps	LED 3000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 2400 lm Power consumption = 16.1 W Luminous efficacy = 149.1 lm/W
		serial documentation 23.06.2026
		siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 0	η_{LB}	100.0%
CIE	N1=48 N2=79 N3=96	ϕ_u	100.0%
	N4=100 N5=100	ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21	Order number: 51MX20DA32BB EAN: 4058352898505	LP number 60289_77
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

Photometric test report

Family Silica® 21	Order number: 51MX20DA32BB EAN: 4058352898505	LP number 60289_77
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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°
γ	Luminance in cd/m²						
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

Photometric test report

Family
Silica® 21

Order number: 51MX20DA32BB
EAN: 4058352898505

LP number
60289_77

Luminance values in cd/m²

γ 65°

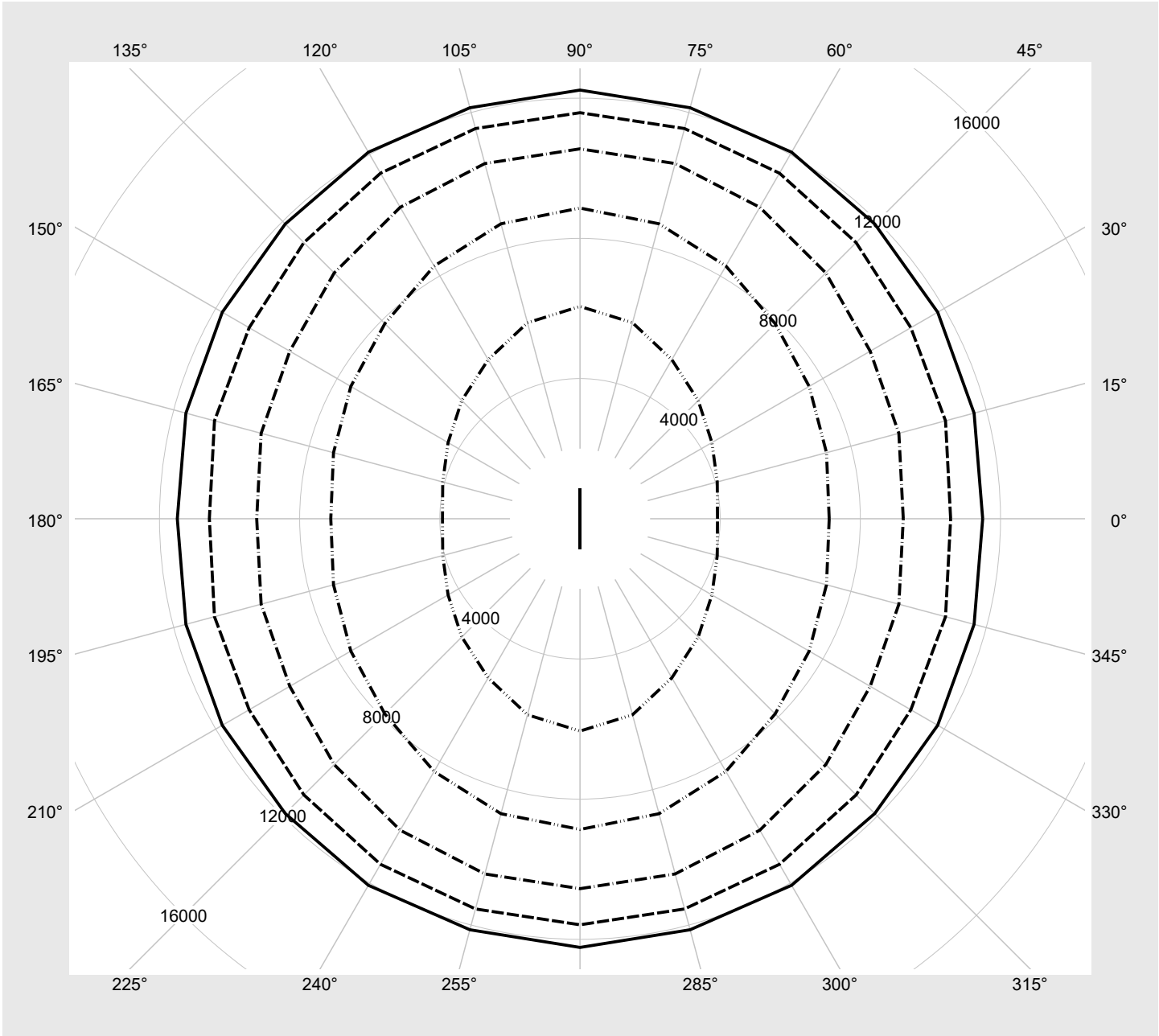
γ 70°

γ 75°

γ 80°

γ 85°

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Photometric test report

Family Silica® 21	Order number: 51MX20DA32BB EAN: 4058352898505	LP number 60289_77
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	16.1
95	241	252	2281	15.4
90	228	250	2162	14.5
85	215	248	2042	13.7
80	202	246	1922	12.9
75	189	243	1801	12.1
70	176	241	1679	11.3
65	163	238	1558	10.5
60	151	235	1444	9.8
55	138	232	1322	9.0
50	125	228	1199	8.2
45	113	224	1084	7.5
40	100	220	961	6.8
35	87	215	836	6.0
30	75	209	721	5.3
25	63	203	604	4.5
20	50	194	479	3.8
15	38	184	363	3.1
10	25	169	236	2.3
5	13	145	119	1.3