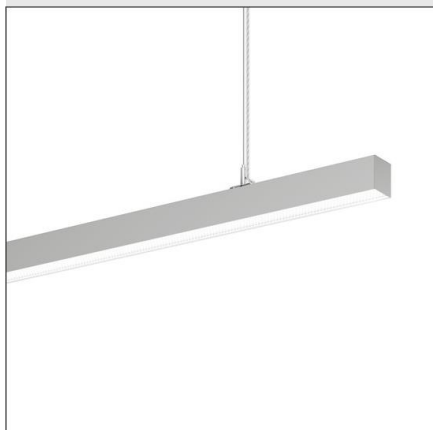


Photometric test report

Family
Silica® 21



Order number: **51MX33DB49SB**
EAN: **4058352889046**

LP number
59331_99

serial
documentation
02.08.2023

Version

Suspended luminaire, with homogeneous illumination, prismatic cover, direct-/ indirect distribution, extremely wide distribution, $UGR \leq 16$ ($L65 \leq 3000 \text{ cd/m}^2$)

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 7390 lm

Power consumption = 48.3 W

Luminous efficacy = 153 lm/W

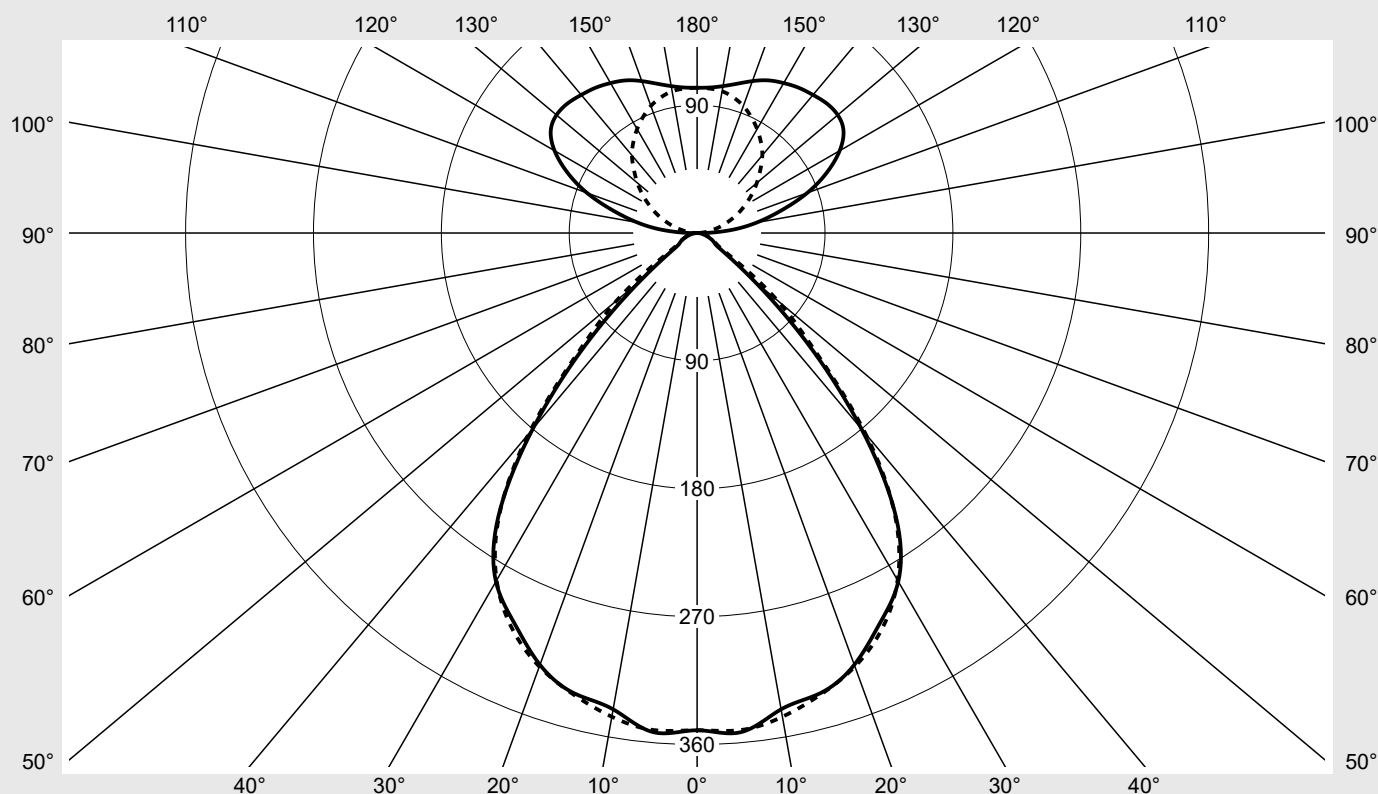
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 353 cd/klm



Classifications

DIN 5040 C 6 2
CIE N1=78 N2=96 N3=99
N4=55 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 55.4%
 ϕ_o 44.6%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21	Order number: 51MX33DB49SB EAN: 4058352889046	LP number 59331_99
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°	349.9	349.9	349.9	349.9	349.9	349.9	349.9	2.1	2.1
5°	352.7	353.3	353.1	353.3	352.9	352.0	351.1	16.9	18.9
10°	340.4	339.5	339.7	341.6	345.2	345.5	345.7	32.6	51.5
15°	335.2	334.1	331.5	331.4	333.4	336.4	336.2	47.3	98.9
20°	323.4	322.7	318.7	319.6	318.0	320.3	324.7	60.1	159.0
25°	303.6	304.4	302.2	302.2	302.6	302.3	307.6	70.2	229.2
30°	283.2	283.0	279.5	280.9	281.3	280.3	282.2	77.1	306.3
35°	244.1	243.6	241.2	242.6	243.2	242.2	242.9	76.3	382.6
40°	179.9	179.6	180.9	182.1	183.5	183.3	184.4	64.1	446.7
45°	110.1	109.9	111.2	112.6	113.8	115.2	117.5	43.7	490.4
50°	51.7	59.9	67.3	61.6	55.5	66.0	73.6	26.1	516.5
55°	21.0	28.2	26.7	30.5	23.0	31.8	29.6	12.4	528.9
60°	14.1	14.7	15.5	14.4	14.4	15.4	16.1	7.1	536.0
65°	11.6	11.5	12.0	11.7	12.2	12.2	12.1	5.9	541.9
70°	8.4	8.6	8.9	8.9	9.1	9.2	9.2	4.6	546.5
75°	5.8	6.1	6.7	6.4	6.5	6.9	6.6	3.4	549.9
80°	3.5	3.8	4.1	4.5	4.2	4.7	4.7	2.3	552.2
85°	1.8	1.8	1.8	2.1	2.2	2.5	2.7	1.2	553.3
90°	5.2	5.0	5.3	5.2	3.1	1.1	0.4	2.0	555.4
95°	23.9	24.4	26.2	24.8	15.9	8.2	4.2	10.3	565.7
100°	42.8	43.9	44.3	38.8	26.0	14.7	9.7	17.5	583.2
105°	61.3	62.6	61.4	52.4	35.9	22.2	16.3	24.1	607.3
110°	82.4	82.7	77.5	64.5	46.0	30.0	23.3	30.4	637.7
115°	100.7	99.8	92.0	75.7	55.8	37.9	31.1	35.4	673.0
120°	115.9	114.0	103.9	84.8	64.9	45.6	38.7	38.8	711.8
125°	125.7	122.3	111.1	93.1	72.6	52.9	46.8	40.3	752.1
130°	129.2	126.3	114.5	98.0	78.5	60.4	54.8	39.9	792.0
135°	129.0	126.3	115.8	101.3	83.2	67.4	62.9	38.1	830.1
140°	126.9	124.9	116.2	103.6	87.1	74.0	71.4	35.5	865.6
145°	124.8	123.4	116.1	105.0	90.7	80.2	78.2	32.3	897.9
150°	121.9	121.3	114.8	104.9	93.7	86.1	84.5	28.5	926.4
155°	118.5	118.2	111.9	104.4	96.0	91.3	90.1	24.2	950.6
160°	113.8	113.5	108.5	103.6	98.0	95.4	95.1	19.5	970.1
165°	108.8	108.2	105.6	102.3	100.0	98.6	98.8	14.6	984.7
170°	105.0	104.5	103.8	102.4	101.4	101.2	101.3	9.8	994.5
175°	102.8	102.7	102.1	101.9	102.0	102.0	102.0	4.9	999.4
180°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	0.6	1000.0

Photometric test report

Family Silica® 21		Order number: 51MX33DB49SB EAN: 4058352889046							LP number 59331_99	
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	15.4	16.3	16.3	17.2	18.3	15.6	16.5	16.5	17.4
	3H	15.3	16.1	16.2	17.0	18.1	15.6	16.3	16.5	17.2
	4H	15.3	16.0	16.2	16.9	18.1	15.6	16.3	16.5	17.2
	6H	15.2	15.8	16.1	16.8	18.0	15.5	16.2	16.5	17.1
	8H	15.1	15.7	16.1	16.7	17.9	15.4	16.0	16.4	17.0
	12H	15.0	15.6	16.0	16.5	17.8	15.5	16.0	16.4	16.9
4H	2H	15.2	15.9	16.1	16.8	17.9	15.3	16.0	16.2	16.9
	3H	15.2	15.7	16.1	16.7	17.9	15.4	15.9	16.3	16.9
	4H	15.2	15.7	16.1	16.6	17.9	15.4	15.9	16.4	16.9
	6H	15.2	15.6	16.1	16.6	17.8	15.5	15.9	16.4	16.9
	8H	15.1	15.5	16.1	16.5	17.8	15.5	15.9	16.5	16.9
	12H	15.0	15.4	16.1	16.4	17.7	15.5	15.8	16.5	16.8
8H	4H	15.0	15.4	16.0	16.4	17.7	15.2	15.6	16.2	16.6
	6H	15.1	15.5	16.1	16.5	17.7	15.4	15.7	16.4	16.7
	8H	15.1	15.4	16.1	16.4	17.7	15.5	15.8	16.5	16.8
	12H	15.1	15.3	16.1	16.3	17.7	15.5	15.8	16.6	16.8
12H	4H	15.0	15.3	16.0	16.3	17.6	15.1	15.5	16.2	16.5
	6H	15.1	15.3	16.1	16.3	17.6	15.3	15.6	16.3	16.6
	8H	15.1	15.3	16.1	16.3	17.7	15.4	15.7	16.4	16.7

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1500 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	15342.7	15309.5	15501.5	15684.2	15853.9	16056.6
		7923.4	9179.4	10322.9	9447.5	8514.1	10111.8
		3602.6	4852.8	4584.0	5236.6	3955.1	5461.3
		2788.1	2893.3	3058.5	2835.0	2845.4	3026.2
65° 70° 75° 80°	γ	2708.7	2687.5	2795.5	2726.9	2842.6	2838.4
		2423.4	2468.7	2568.6	2568.6	2609.0	2638.9
		2225.2	2309.7	2545.4	2430.8	2486.8	2613.9
		2009.8	2129.0	2348.0	2555.7	2370.7	2644.8
85°	γ	1985.2	1997.7	2073.4	2396.8	2520.0	2873.8

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Luminance values in cd/m²

γ 65°

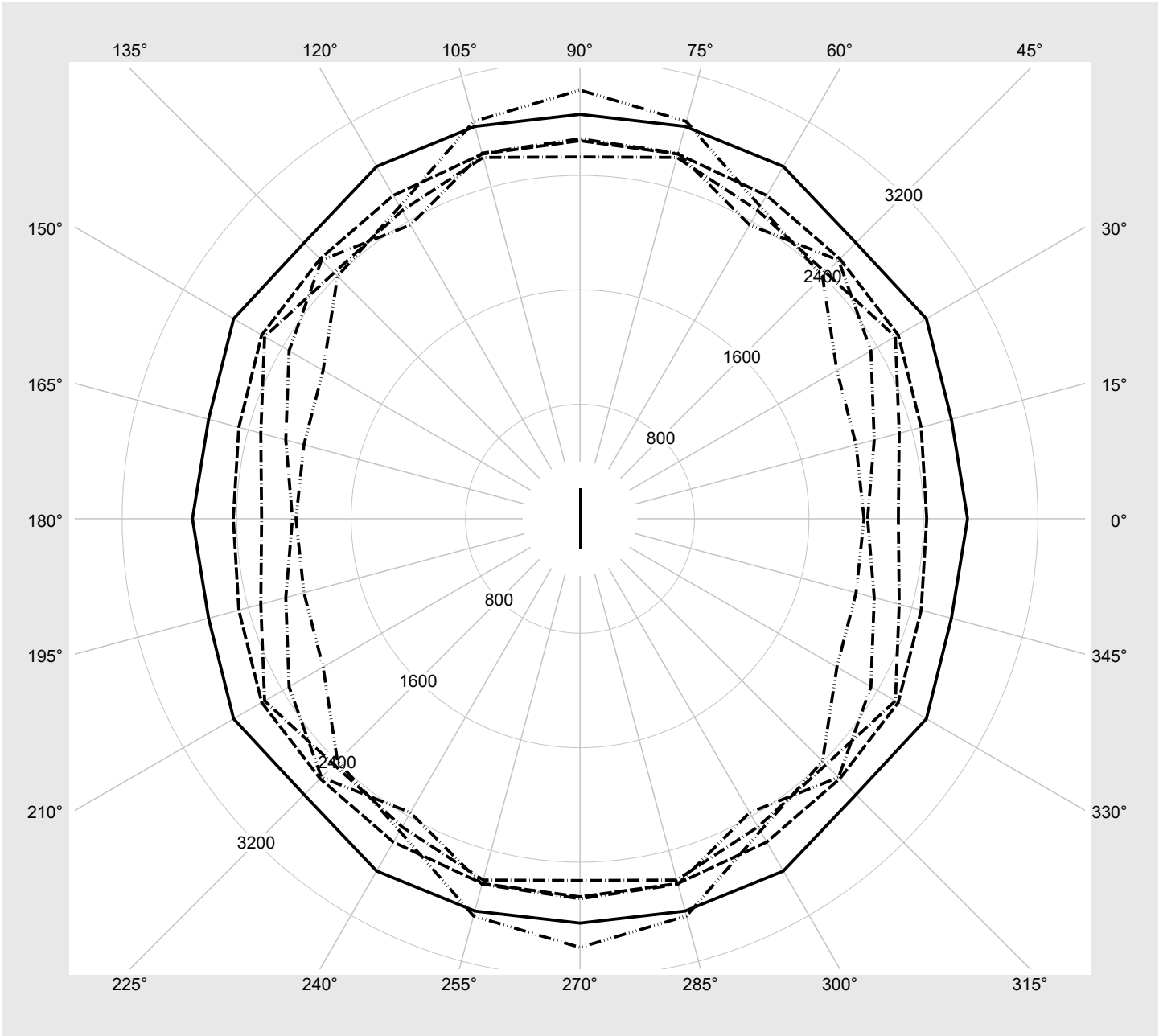
γ 70°

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	7390	48.3
95	241	252	7029	45.9
90	228	250	6665	43.6
85	214	248	6271	41.0
80	201	245	5904	38.6
75	188	243	5535	36.2
70	175	240	5163	33.8
65	162	238	4790	31.5
60	150	235	4444	29.2
55	137	231	4066	26.9
50	124	228	3687	24.5
45	112	224	3336	22.4
40	99	219	2953	20.0
35	87	215	2598	17.9
30	74	209	2210	15.5
25	62	202	1853	13.3
20	49	194	1463	10.9
15	37	183	1103	8.8
10	25	169	740	6.7
5	13	145	377	4.8
2	6	117	164	4.2