

Photometric test report

Family
Silica® 21



Order number: **51MX33DP3CBB**
EAN: **4069025130150**

LP number
59331_131

serial
documentation
22.05.2024

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 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 16260 lm

Power consumption = 109.1 W

Luminous efficacy = 149 lm/W

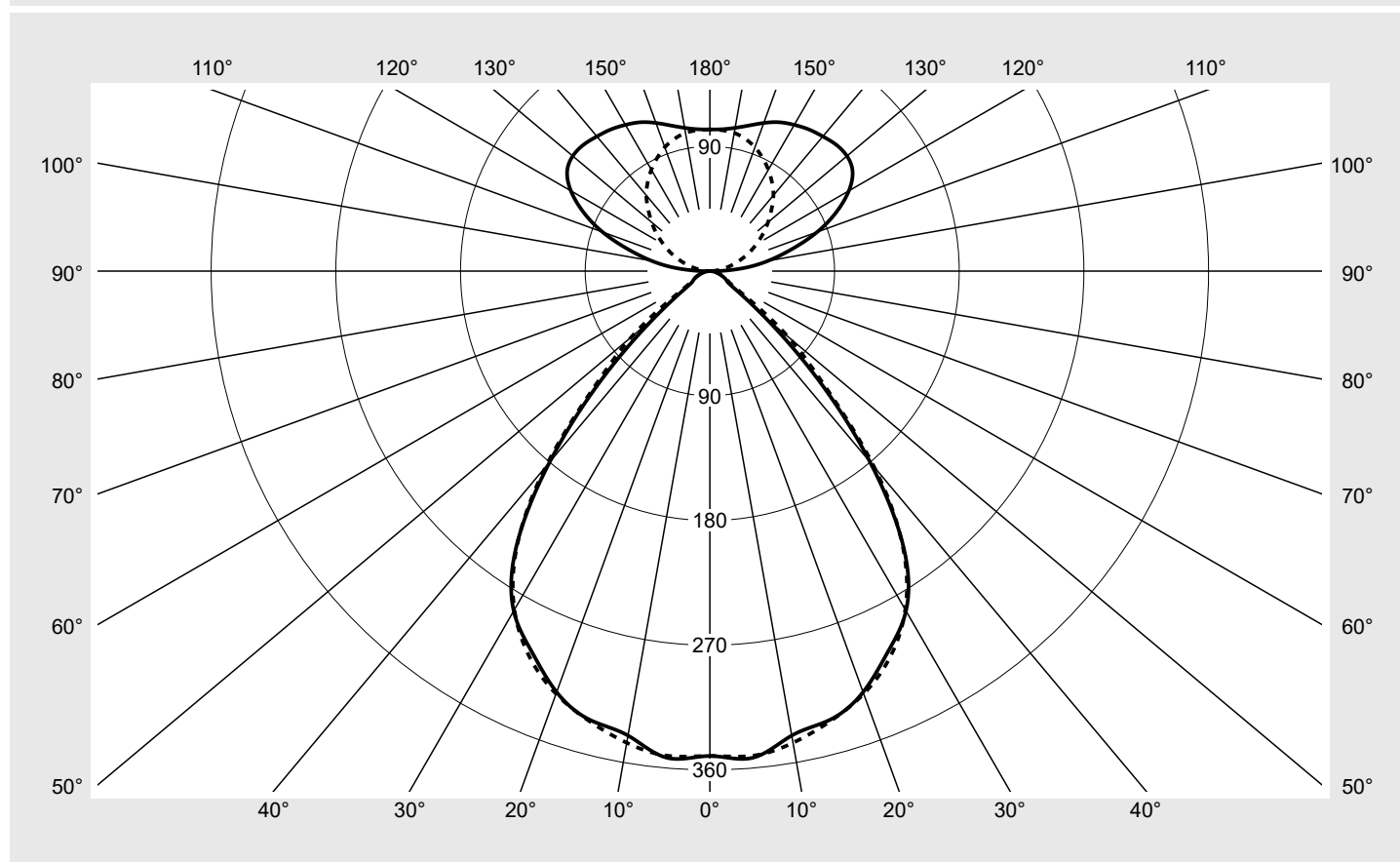
siteco

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

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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°	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

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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	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	16.7	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 = 3300 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	15344.6	15311.4	15503.4	15686.2	15855.9	16058.5
		7924.4	9180.5	10324.2	9448.6	8515.1	10113.1
		3603.0	4853.4	4584.5	5237.2	3955.6	5462.0
		2788.4	2893.7	3058.9	2835.3	2845.8	3026.5
65° 70° 75° 80° 85°	γ	2709.1	2687.8	2795.8	2727.3	2842.9	2838.7
		2423.7	2469.0	2568.9	2568.9	2609.3	2639.2
		2225.5	2310.0	2545.7	2431.1	2487.1	2614.2
		2010.1	2129.3	2348.3	2556.0	2371.0	2645.1
		1985.5	1997.9	2073.7	2397.0	2520.3	2874.2
							2996.3

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Luminance values in cd/m²

γ 65°

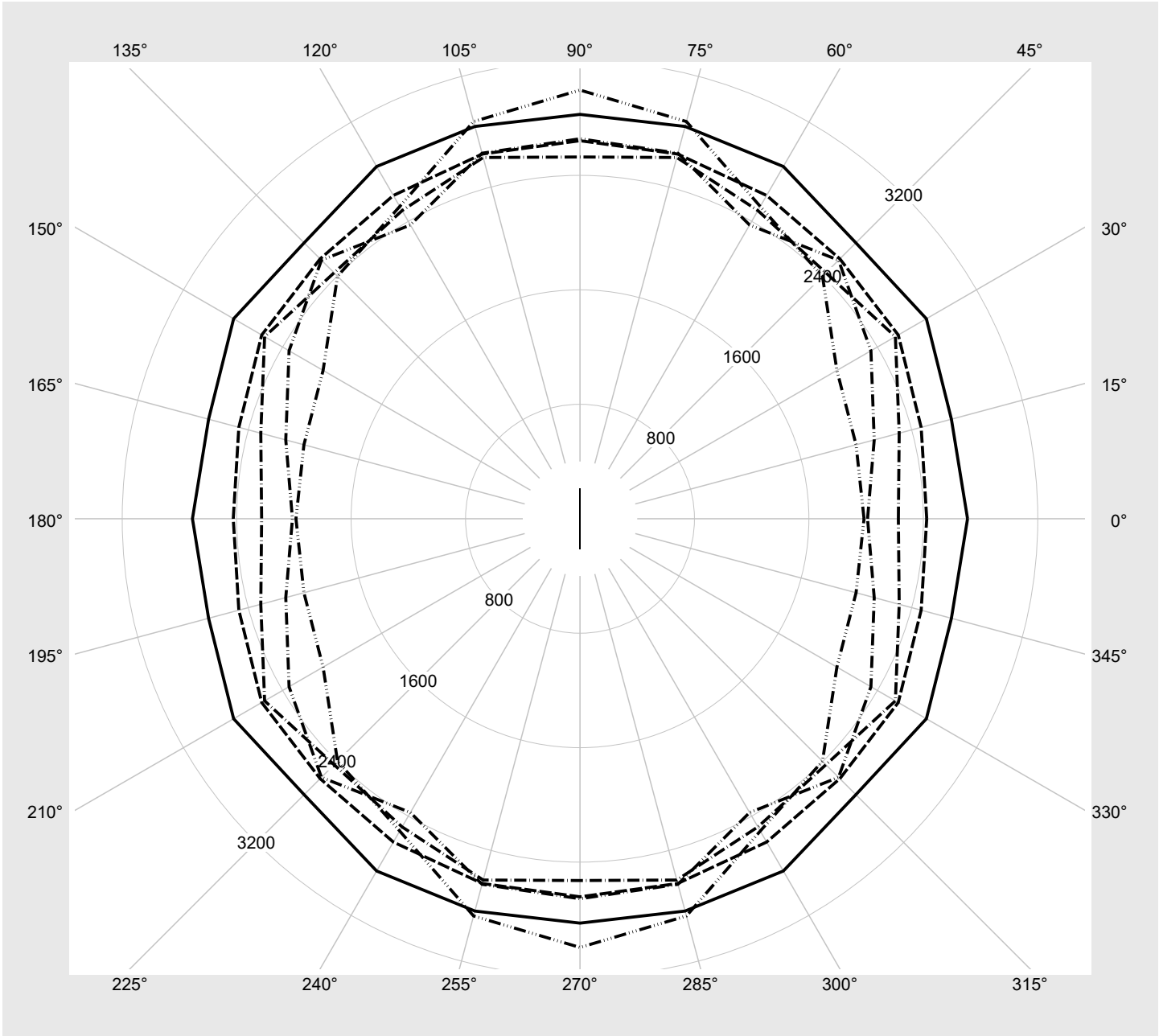
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Silica® 21	Order number: 51MX33DP3CBB EAN: 4069025130150	LP number 59331_131
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	16260	109.1
95	241	252	15471	103.6
90	227	250	14614	97.8
85	214	248	13811	92.3
80	201	245	13007	87.0
75	188	243	12198	81.5
70	175	240	11383	76.0
65	162	238	10563	70.6
60	149	234	9739	65.1
55	137	231	8973	60.4
50	124	228	8139	55.3
45	111	224	7301	50.1
40	99	219	6522	45.2
35	86	214	5676	39.7
30	74	209	4888	34.5
25	62	202	4096	29.4
20	49	194	3236	23.7
15	37	183	2440	18.5
10	25	169	1640	13.4
5	13	145	837	8.5
2	6	117	367	5.8