

Photometric test report

Family
Silica® 21



Order number: **51MX32DC3DSB**
EAN: **4058352893449**

LP number
59279_98

serial
documentation
02.08.2023

Version Suspended luminaire, reflector, black, direct-/indirect distribution, wide distribution, $UGR \leq 16$ ($L65 \leq 1000 \text{ cd/m}^2$)

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 18220 lm
Power consumption = 113.0 W
Luminous efficacy = 161.2 lm/W

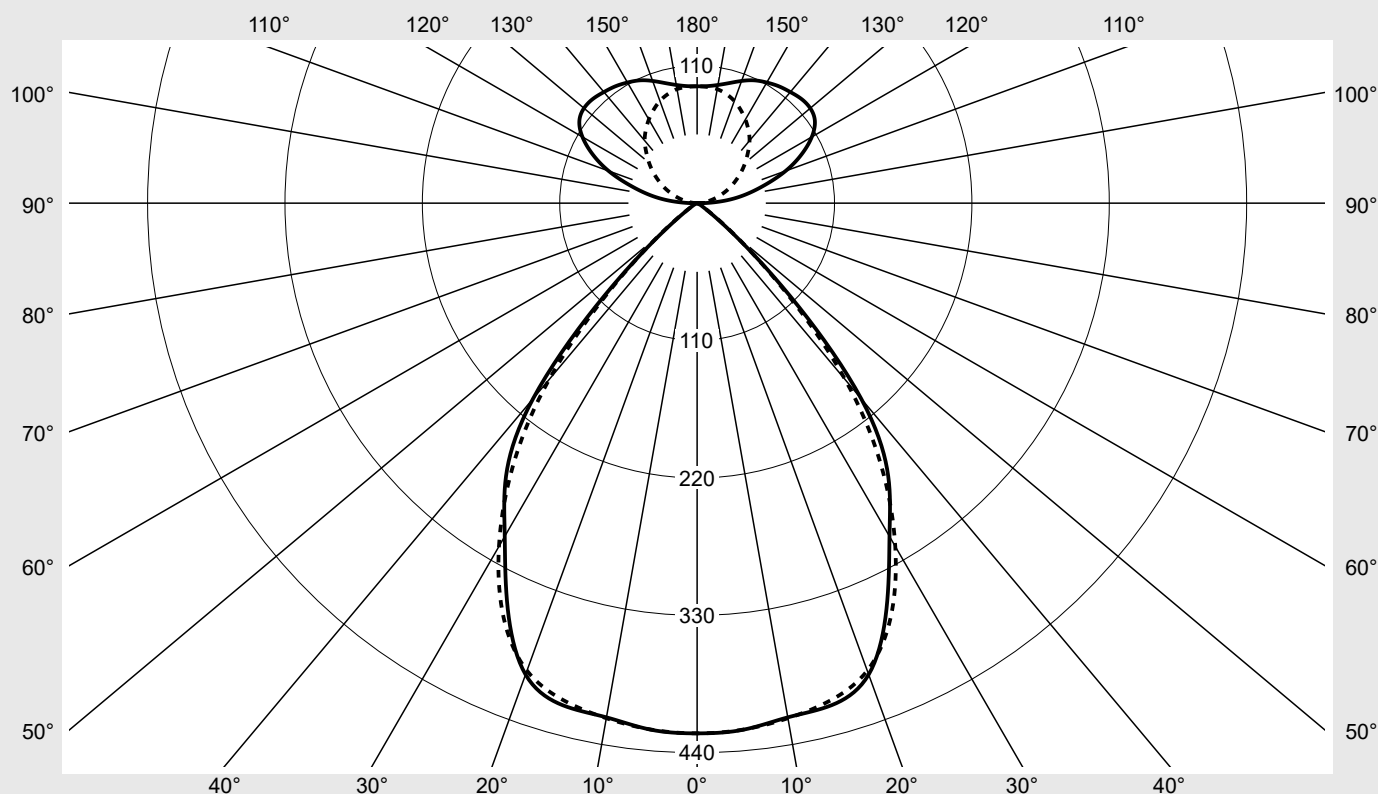
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 425 cd/klm



Classifications

DIN 5040 C 6 2
CIE N1=86 N2=99 N3=100
N4=59 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 59.2%
 ϕ_o 40.8%

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°	424.5	424.5	424.5	424.5	424.5	424.5	424.5	2.5	2.5
5°	423.2	423.7	423.1	423.1	423.3	423.7	423.1	20.2	22.8
10°	418.0	417.2	417.3	418.4	419.3	417.7	418.7	39.8	62.6
15°	416.1	416.5	413.5	413.8	413.5	412.7	412.2	58.7	121.3
20°	401.6	404.7	402.8	404.0	399.5	397.4	398.3	75.3	196.5
25°	358.7	364.9	370.6	376.3	375.4	369.4	366.5	85.7	282.2
30°	308.1	312.2	314.3	321.5	326.7	320.5	317.3	87.1	369.4
35°	266.7	269.2	262.0	257.7	262.2	261.4	257.3	82.5	451.9
40°	204.3	207.3	203.4	196.7	194.2	189.2	184.5	69.6	521.5
45°	105.6	109.2	112.9	113.5	110.1	103.6	98.8	42.1	563.6
50°	35.1	38.0	43.5	46.6	44.5	40.2	37.5	17.4	581.0
55°	9.3	10.9	14.6	18.5	15.5	12.0	10.3	6.1	587.1
60°	3.6	4.0	5.4	7.2	5.8	4.5	4.1	2.4	589.5
65°	1.2	1.4	2.0	2.5	2.2	1.8	1.6	0.9	590.5
70°	0.8	0.8	0.6	0.6	0.7	0.9	0.9	0.4	590.8
75°	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.1	591.0
80°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	591.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	591.2
90°	4.7	4.5	4.8	4.8	2.8	1.0	0.4	1.9	593.1
95°	21.9	22.4	24.0	22.7	14.5	7.5	3.9	9.5	602.5
100°	39.1	40.2	40.5	35.5	23.8	13.4	8.9	16.0	618.5
105°	56.1	57.3	56.2	48.0	32.8	20.3	14.9	22.1	640.6
110°	75.4	75.7	70.9	59.1	42.1	27.5	21.3	27.8	668.4
115°	92.2	91.4	84.2	69.3	51.0	34.7	28.4	32.4	700.7
120°	106.0	104.3	95.1	77.6	59.4	41.8	35.4	35.5	736.3
125°	115.1	111.9	101.7	85.2	66.4	48.4	42.8	36.9	773.1
130°	118.2	115.6	104.8	89.7	71.8	55.3	50.2	36.5	809.6
135°	118.0	115.6	106.0	92.7	76.1	61.7	57.6	34.9	844.5
140°	116.1	114.4	106.3	94.9	79.7	67.7	65.3	32.5	877.0
145°	114.2	113.0	106.3	96.1	83.1	73.4	71.6	29.6	906.6
150°	111.5	111.1	105.1	96.0	85.8	78.8	77.3	26.1	932.7
155°	108.5	108.2	102.4	95.6	87.9	83.6	82.4	22.1	954.8
160°	104.1	103.9	99.3	94.8	89.7	87.3	87.1	17.8	972.6
165°	99.5	99.0	96.7	93.7	91.6	90.3	90.4	13.4	986.0
170°	96.1	95.6	95.0	93.7	92.8	92.7	92.7	9.0	995.0
175°	94.1	94.0	93.5	93.3	93.3	93.4	93.4	4.5	999.4
180°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	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	16.3	17.1	17.1	18.0	19.0	16.1	17.0	16.9	17.8
	3H	16.0	16.7	16.9	17.6	18.7	15.8	16.6	16.7	17.5
	4H	15.8	16.5	16.7	17.4	18.5	15.7	16.4	16.6	17.3
	6H	15.7	16.3	16.6	17.2	18.3	15.5	16.2	16.4	17.1
	8H	15.6	16.1	16.5	17.1	18.2	15.4	15.9	16.3	16.9
	12H	15.5	16.0	16.4	16.9	18.1	15.3	15.9	16.3	16.8
4H	2H	15.9	16.6	16.8	17.5	18.6	15.7	16.4	16.6	17.2
	3H	15.6	16.2	16.5	17.1	18.3	15.4	16.0	16.3	16.9
	4H	15.5	16.0	16.4	16.9	18.1	15.3	15.8	16.2	16.7
	6H	15.3	15.7	16.2	16.7	17.9	15.1	15.6	16.1	16.5
	8H	15.2	15.6	16.2	16.5	17.8	15.0	15.4	16.0	16.4
	12H	15.1	15.4	16.1	16.4	17.6	14.9	15.3	15.9	16.2
8H	4H	15.2	15.6	16.2	16.6	17.8	15.0	15.4	16.0	16.4
	6H	15.1	15.4	16.1	16.4	17.6	14.9	15.2	15.8	16.1
	8H	15.0	15.3	16.0	16.3	17.5	14.8	15.1	15.8	16.1
	12H	14.9	15.1	15.9	16.1	17.4	14.7	15.0	15.7	15.9
12H	4H	15.1	15.5	16.1	16.4	17.7	14.9	15.3	15.9	16.2
	6H	15.0	15.3	16.0	16.2	17.5	14.8	15.1	15.8	16.0
	8H	14.9	15.1	15.9	16.1	17.4	14.7	14.9	15.7	15.9

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 2940 B = 49	
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	18894.2	19529.1	20193.1	20307.0	19696.2	18538.1
		6911.2	7475.3	8557.1	9160.0	8753.7	7916.1
		2044.1	2412.3	3214.0	4079.3	3423.3	2636.3
		914.2	1018.9	1361.1	1811.9	1470.9	1147.4
65° 70° 75° 80°	γ	372.6	427.9	592.8	752.7	667.7	528.2
		296.2	308.8	228.2	214.8	258.5	332.4
		82.1	109.9	89.4	125.1	114.8	137.8
		21.1	21.1	30.6	45.9	61.9	71.4
85°	γ	571.7	571.7	555.8	542.7	535.5	534.0

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Luminance values in cd/m²

γ 65°

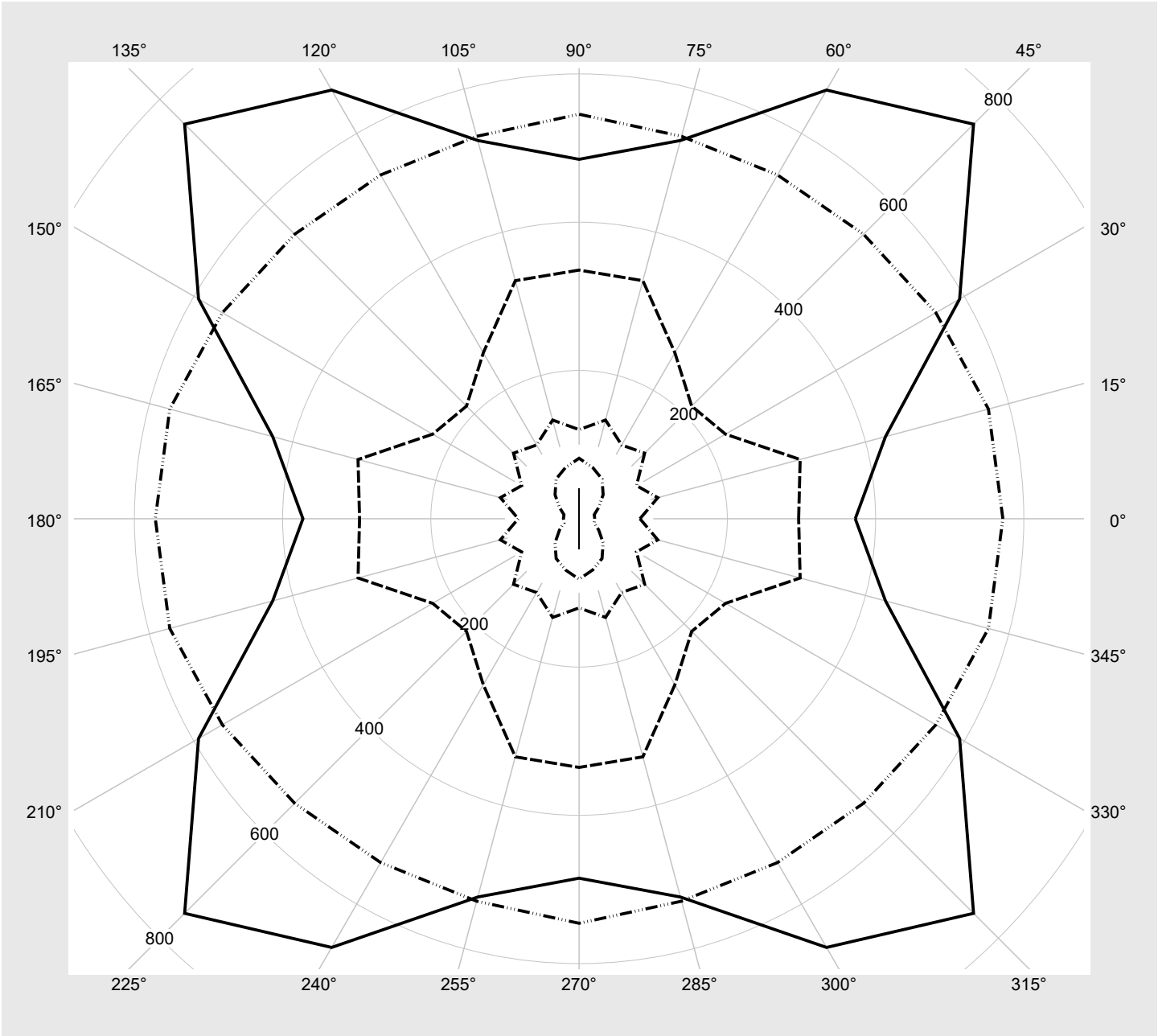
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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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	18220	113.0
95	240	252	17276	107.0
90	227	250	16390	100.9
85	214	248	15501	95.6
80	201	245	14606	90.1
75	187	243	13636	83.9
70	174	240	12727	78.0
65	161	237	11812	72.7
60	149	234	10962	67.2
55	136	231	10029	61.6
50	123	227	9094	56.2
45	111	224	8227	50.8
40	98	219	7280	45.5
35	86	214	6401	40.4
30	73	208	5442	34.9
25	61	202	4555	29.5
20	49	194	3661	24.4
15	37	183	2759	19.1
10	25	169	1857	13.8
5	12	142	874	8.0
2	5	110	343	4.1