

Photometric test report

Family
Silica® 21

Order number: 51MX30DA34BB
EAN: 4058352886472

LP number
59413_61



Version Suspended luminaire, with homogeneous illumination, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤25

Lamps LED 3000 K | CRI ≥ 80

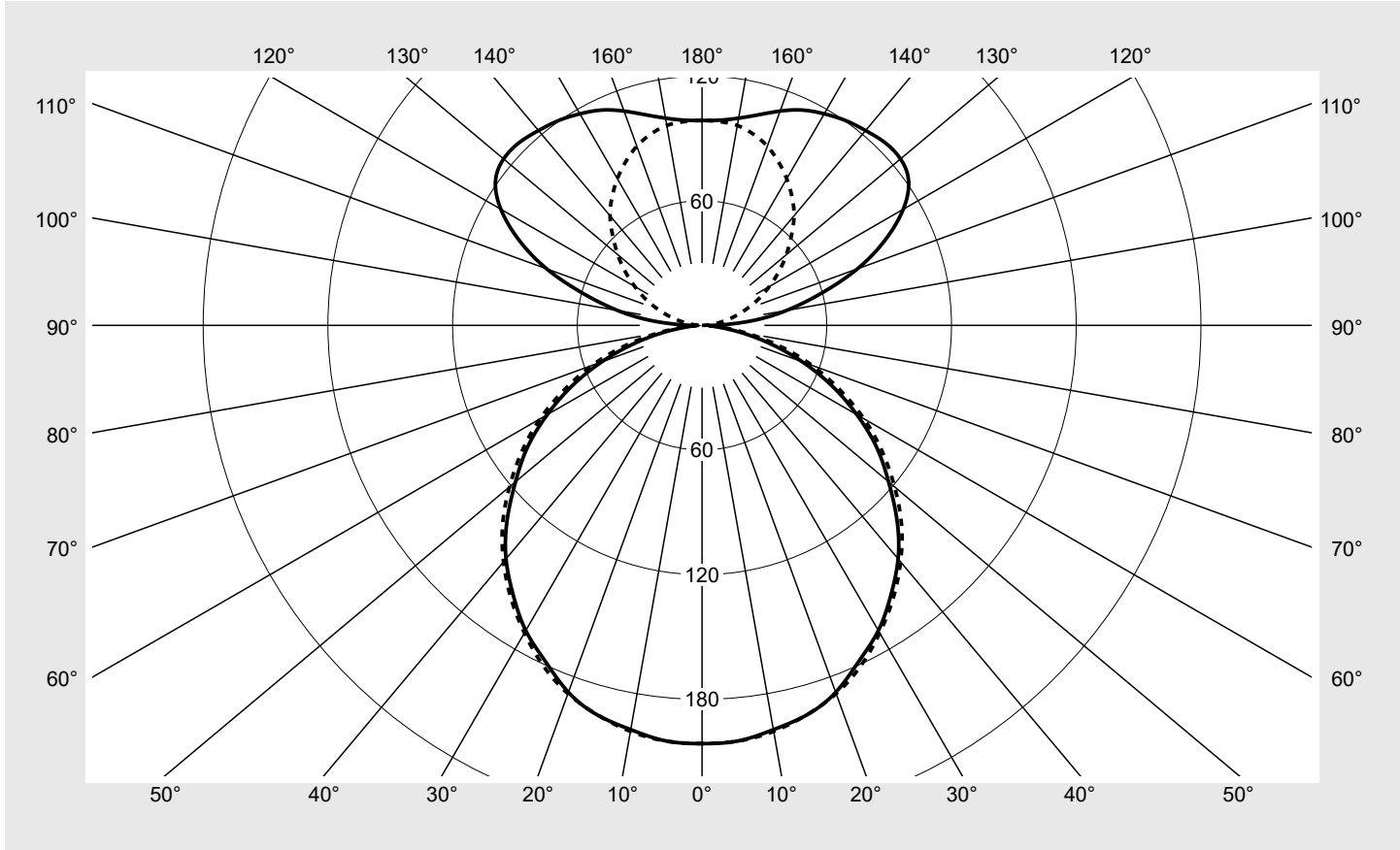
Controlgear ECG-DALI

Rated values Net luminous flux = 4210 lm
Power consumption = 27.7 W
Luminous efficacy = 152 lm/W

serial documentation
02.08.2023



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 201 cd/klm**



Classifications

DIN 5040	C 4 2
CIE	N1=47 N2=79 N3=96 N4=57 N5=100

Luminaire light output ratios

η_{LB}	100.0%
ϕ_u	57.0%
ϕ_o	43.0%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm							Luminous flux in lm/klm		
0°	201.3	201.3	201.3	201.3	201.3	201.3	201.3	1.2	1.2
5°	200.8	201.1	200.5	200.6	200.7	201.0	200.8	9.6	10.8
10°	197.6	197.2	197.1	197.6	198.5	197.9	198.4	18.8	29.6
15°	194.2	193.6	192.5	193.4	194.0	194.3	194.2	27.5	57.1
20°	188.0	187.6	186.2	187.1	187.3	187.7	188.7	35.1	92.2
25°	178.4	178.6	177.9	178.8	179.9	179.8	180.8	41.5	133.7
30°	169.6	169.4	168.2	169.6	170.9	170.8	170.9	46.6	180.3
35°	158.4	158.6	157.6	158.2	158.8	159.6	160.3	49.9	230.1
40°	146.7	146.4	146.5	146.2	147.1	147.3	148.6	51.7	281.9
45°	132.6	132.7	133.0	133.0	133.6	133.9	135.7	51.7	333.6
50°	117.1	118.0	118.4	118.9	120.0	120.2	120.9	50.0	383.6
55°	102.6	102.7	103.4	103.9	104.8	104.8	105.8	46.7	430.3
60°	86.0	86.4	86.9	87.2	88.6	88.7	90.0	41.6	471.9
65°	69.1	69.7	70.6	71.5	72.2	72.9	72.9	35.4	507.3
70°	51.3	52.3	52.8	54.1	55.2	55.9	56.2	27.8	535.1
75°	33.8	34.6	35.2	36.4	37.6	38.6	38.9	19.3	554.4
80°	17.8	18.1	18.7	19.5	20.7	21.6	21.9	10.7	565.1
85°	5.8	6.0	6.3	6.7	7.3	8.0	8.2	3.8	568.8
90°	5.3	5.2	5.5	5.5	3.6	1.7	1.1	2.3	571.1
95°	23.1	23.6	25.3	23.9	15.3	7.9	4.1	10.0	581.1
100°	41.3	42.4	42.7	37.4	25.1	14.2	9.3	16.8	597.9
105°	59.2	60.4	59.2	50.6	34.6	21.4	15.7	23.3	621.2
110°	79.5	79.8	74.8	62.3	44.4	29.0	22.5	29.3	650.4
115°	97.2	96.3	88.8	73.1	53.8	36.6	30.0	34.1	684.6
120°	111.8	110.0	100.3	81.8	62.6	44.0	37.3	37.4	722.0
125°	121.3	118.0	107.2	89.8	70.0	51.0	45.1	38.9	760.9
130°	124.6	121.9	110.5	94.5	75.7	58.3	52.9	38.5	799.3
135°	124.4	121.9	111.7	97.7	80.2	65.0	60.7	36.8	836.1
140°	122.4	120.5	112.1	100.0	84.0	71.4	68.8	34.3	870.4
145°	120.4	119.1	112.0	101.3	87.5	77.3	75.5	31.2	901.5
150°	117.6	117.1	110.8	101.2	90.4	83.0	81.5	27.5	929.0
155°	114.3	114.0	108.0	100.7	92.6	88.1	86.9	23.3	952.4
160°	109.8	109.5	104.7	99.9	94.6	92.0	91.8	18.8	971.2
165°	104.9	104.4	101.9	98.7	96.5	95.2	95.3	14.1	985.3
170°	101.3	100.8	100.1	98.8	97.8	97.7	97.7	9.4	994.7
175°	99.2	99.0	98.5	98.3	98.4	98.4	98.4	4.7	999.4
180°	98.6	98.6	98.6	98.6	98.6	98.6	98.6	0.6	1000.0

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UGR-Table	Standard room	siteco
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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	18.5	19.5	19.3	20.4	21.5	18.7	19.7	19.5	20.5	21.6
	3H	19.9	20.8	20.7	21.7	22.8	20.2	21.1	21.0	22.0	23.1
	4H	20.4	21.2	21.2	22.1	23.2	20.8	21.6	21.6	22.5	23.6
	6H	20.6	21.4	21.5	22.3	23.4	21.1	21.9	22.0	22.8	24.0
	8H	20.6	21.3	21.5	22.3	23.4	21.1	21.8	22.0	22.8	23.9
	12H	20.6	21.2	21.5	22.2	23.4	21.2	21.9	22.1	22.8	24.0
4H	2H	19.1	20.0	20.0	20.8	22.0	19.2	20.0	20.0	20.9	22.0
	3H	20.7	21.4	21.6	22.3	23.5	20.9	21.6	21.8	22.5	23.7
	4H	21.2	21.9	22.2	22.8	24.0	21.6	22.2	22.5	23.2	24.3
	6H	21.6	22.1	22.5	23.1	24.3	22.0	22.6	23.0	23.5	24.7
	8H	21.6	22.1	22.6	23.1	24.3	22.2	22.7	23.1	23.6	24.8
	12H	21.6	22.0	22.6	23.0	24.3	22.2	22.6	23.1	23.6	24.8
8H	4H	21.4	21.9	22.4	22.9	24.1	21.7	22.2	22.6	23.2	24.4
	6H	21.9	22.3	22.8	23.3	24.5	22.3	22.7	23.2	23.6	24.9
	8H	22.0	22.4	23.0	23.3	24.6	22.5	22.8	23.5	23.8	25.1
	12H	22.0	22.3	23.0	23.3	24.6	22.6	22.9	23.6	23.9	25.2
12H	4H	21.4	21.8	22.3	22.8	24.0	21.6	22.1	22.6	23.0	24.3
	6H	21.9	22.2	22.8	23.2	24.5	22.3	22.6	23.2	23.6	24.9
	8H	22.0	22.3	23.0	23.3	24.6	22.5	22.8	23.5	23.8	25.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1200 B = 50
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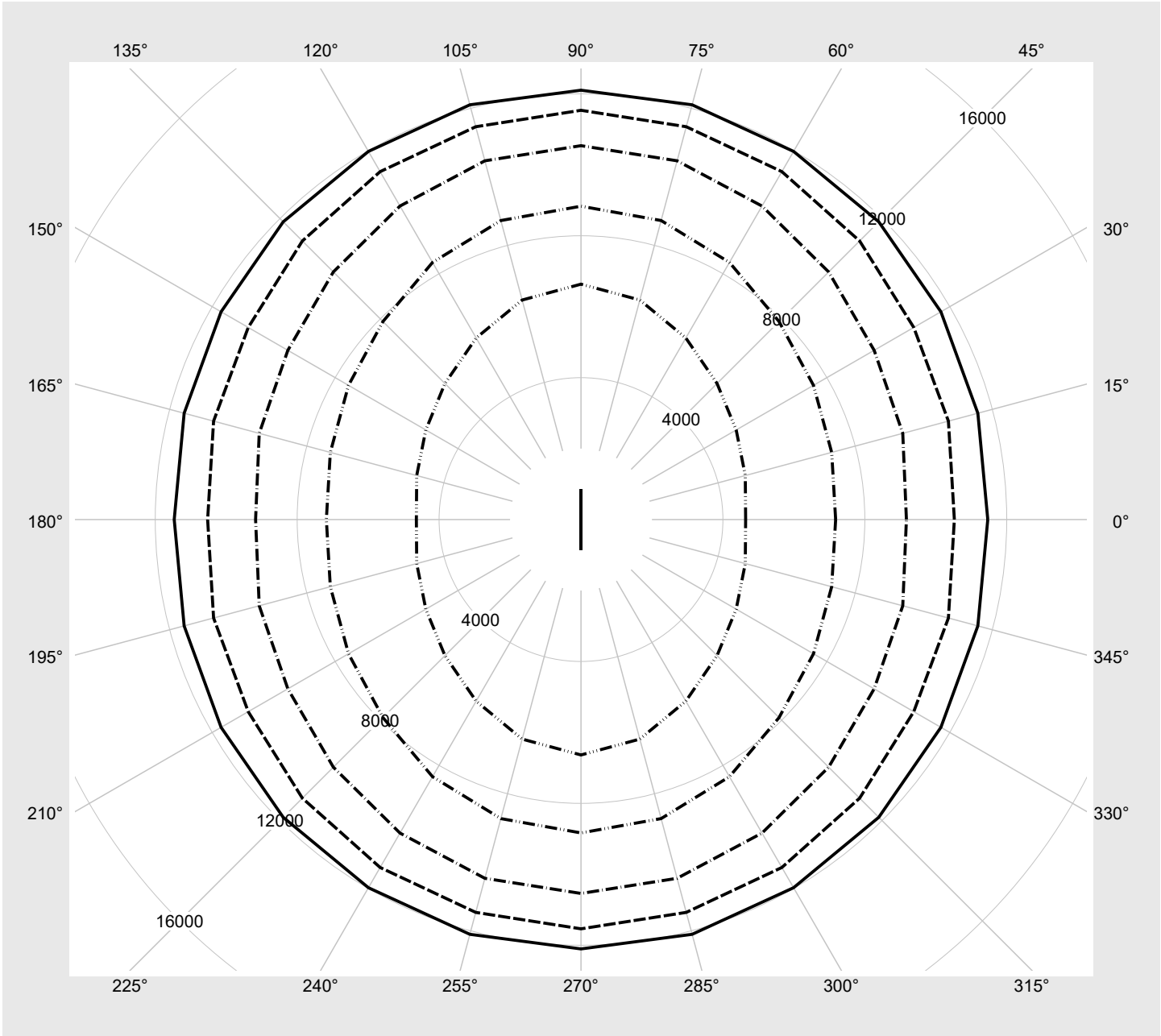
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		13162.4	13170.4	13195.2	13196.9	13255.4	13290.5	13466.7	
50°		12786.7	12883.9	12920.5	12975.2	13095.4	13118.2	13200.2	
55°		12554.9	12568.9	12644.5	12707.5	12824.5	12825.5	12942.7	
60°		12072.2	12120.3	12190.6	12238.8	12433.7	12450.2	12623.4	
65°		11465.6	11580.3	11713.8	11869.5	11982.9	12103.3	12102.6	
70°		10523.8	10721.3	10830.5	11106.4	11324.1	11463.6	11536.4	
75°		9172.2	9389.4	9541.5	9871.4	10204.3	10469.2	10539.1	
80°		7177.6	7314.9	7566.7	7894.4	8369.6	8726.4	8833.1	
85°		4640.4	4794.2	5051.0	5423.8	5910.0	6406.8	6635.4	

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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	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4210	27.7
95	241	252	4001	26.3
90	228	250	3792	24.9
85	215	248	3581	23.6
80	202	246	3370	22.3
75	189	243	3158	21.0
70	176	241	2945	19.8
65	163	238	2731	18.4
60	151	235	2533	17.2
55	138	232	2318	15.9
50	125	228	2102	14.5
45	113	224	1901	13.2
40	100	220	1683	11.8
35	88	215	1481	10.5
30	75	209	1263	9.1
25	63	203	1059	7.8
20	50	194	839	6.5
15	38	184	635	5.1
10	25	169	414	3.6
7	19	159	311	2.8