

Photometric test report

Family
Silica® 21

Order number: 51MX36DC4DWB
EAN: 4058352893821

LP number
59280_68



Version Suspended luminaire, reflector, white, direct-/indirect distribution, wide distribution, UGR≤16 (L65≤3000cd/m²)

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 17650 lm
Power consumption = 97.4 W
Luminous efficacy = 181.2 lm/W

serial
documentation
02.08.2023

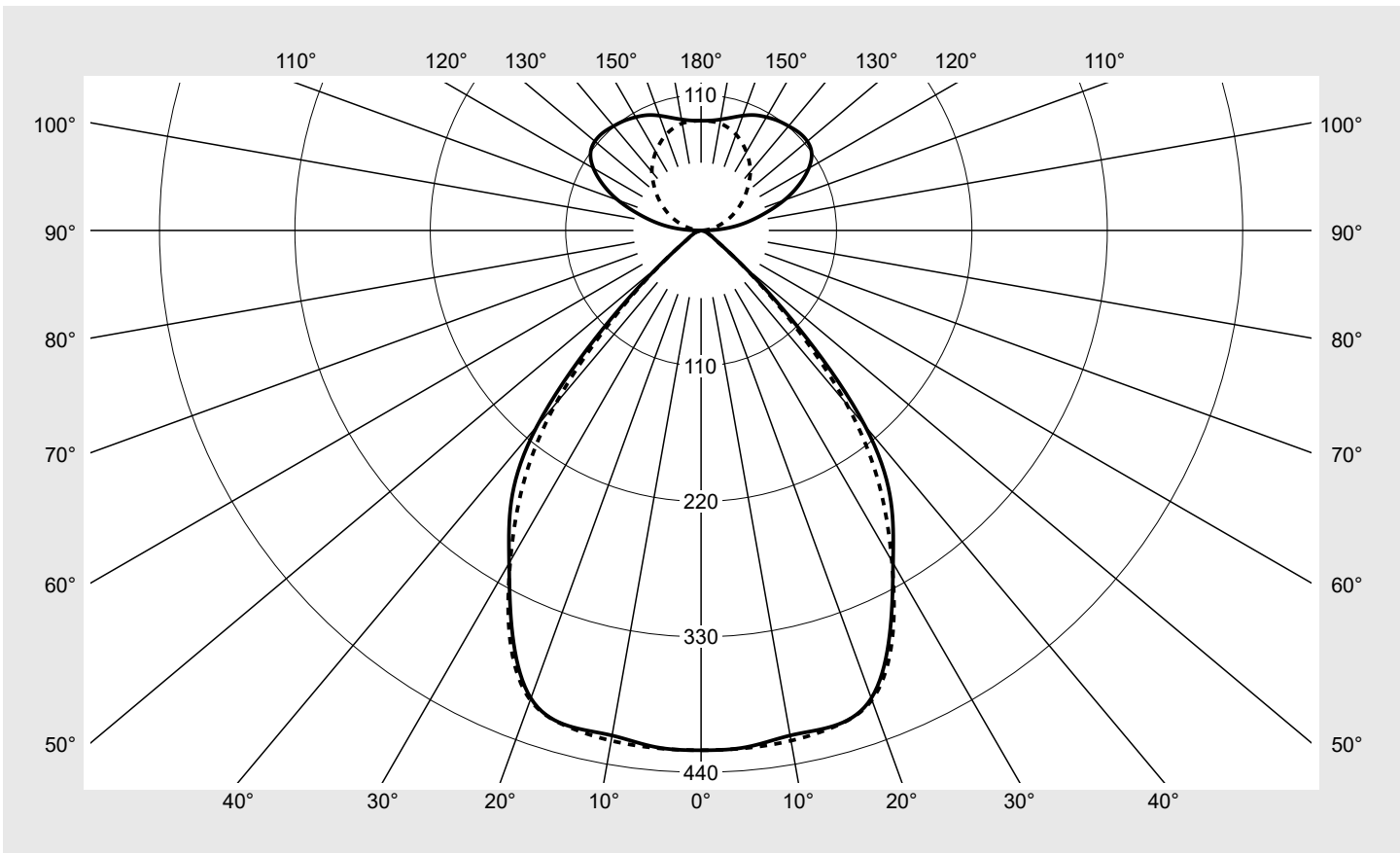
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 422 cd/klm



Classifications

DIN 5040 B 6 2
CIE N1=83 N2=98 N3=100
N4=61 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 61.1%
 ϕ_o 38.9%

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°	422.1	422.1	422.1	422.1	422.1	422.1	422.1	2.5	2.5
5°	421.2	421.7	421.1	421.4	421.8	422.4	421.9	20.1	22.7
10°	416.4	415.9	416.6	418.5	420.4	419.5	420.7	39.8	62.5
15°	416.5	417.3	416.2	418.2	418.6	417.7	417.3	59.2	121.7
20°	404.3	408.0	408.5	410.6	406.7	404.4	405.8	76.3	198.0
25°	362.4	369.4	376.8	381.5	377.2	370.0	367.2	86.5	284.5
30°	311.9	316.7	317.8	318.8	318.6	312.7	309.9	86.6	371.1
35°	268.9	273.0	262.7	253.0	257.3	257.0	252.3	81.9	453.0
40°	207.2	211.8	206.6	199.5	199.2	191.4	183.8	70.7	523.7
45°	112.3	116.7	117.8	117.4	112.9	104.7	100.2	43.7	567.4
50°	43.9	46.6	49.7	52.0	48.4	44.4	42.8	19.9	587.3
55°	17.8	19.3	22.0	25.4	22.4	18.9	17.4	9.4	596.7
60°	10.9	11.5	12.5	13.7	12.5	11.2	10.7	5.7	602.4
65°	7.0	7.3	7.7	7.8	7.5	7.2	6.9	3.7	606.1
70°	4.8	4.9	4.6	4.4	4.5	4.8	4.7	2.4	608.5
75°	1.9	2.1	2.3	2.3	2.3	2.2	2.0	1.2	609.6
80°	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.5	610.2
85°	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.4	610.6
90°	4.5	4.3	4.6	4.5	2.7	0.9	0.3	1.8	612.3
95°	20.9	21.3	22.8	21.6	13.8	7.1	3.7	9.0	621.4
100°	37.3	38.3	38.6	33.8	22.7	12.8	8.4	15.2	636.6
105°	53.5	54.6	53.5	45.7	31.3	19.4	14.2	21.0	657.6
110°	71.9	72.1	67.6	56.3	40.1	26.2	20.3	26.5	684.1
115°	87.8	87.0	80.3	66.0	48.6	33.1	27.1	30.8	714.9
120°	101.0	99.4	90.6	73.9	56.6	39.8	33.7	33.8	748.7
125°	109.6	106.6	96.9	81.1	63.3	46.1	40.8	35.1	783.9
130°	112.6	110.2	99.9	85.4	68.4	52.7	47.8	34.8	818.6
135°	112.4	110.1	101.0	88.3	72.5	58.7	54.9	33.2	851.9
140°	110.6	108.9	101.3	90.4	76.0	64.5	62.2	31.0	882.8
145°	108.8	107.6	101.3	91.5	79.1	69.9	68.2	28.2	911.0
150°	106.2	105.8	100.1	91.4	81.7	75.0	73.6	24.8	935.9
155°	103.3	103.0	97.6	91.1	83.7	79.6	78.5	21.1	956.9
160°	99.2	99.0	94.6	90.3	85.5	83.2	82.9	17.0	973.9
165°	94.8	94.3	92.1	89.2	87.2	86.0	86.1	12.8	986.7
170°	91.5	91.1	90.5	89.3	88.4	88.3	88.3	8.5	995.2
175°	89.6	89.5	89.1	88.9	88.9	89.0	89.0	4.3	999.5
180°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	0.5	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	16.6	17.5	17.4	18.3	19.3	16.2	17.1	17.0	17.9	18.9
	3H	16.3	17.1	17.2	18.0	19.0	16.0	16.8	16.9	17.7	18.7
	4H	16.2	16.9	17.1	17.8	18.9	15.9	16.6	16.8	17.5	18.6
	6H	16.1	16.7	16.9	17.6	18.7	15.8	16.4	16.7	17.3	18.4
	8H	16.0	16.6	16.9	17.4	18.6	15.6	16.2	16.5	17.1	18.2
	12H	15.9	16.4	16.8	17.3	18.5	15.6	16.1	16.5	17.0	18.2
4H	2H	16.3	17.0	17.1	17.8	18.9	15.9	16.6	16.7	17.4	18.5
	3H	16.1	16.7	17.0	17.5	18.7	15.7	16.3	16.6	17.2	18.3
	4H	15.9	16.5	16.8	17.4	18.5	15.6	16.1	16.5	17.0	18.2
	6H	15.8	16.2	16.7	17.1	18.3	15.5	15.9	16.4	16.8	18.0
	8H	15.7	16.1	16.6	17.0	18.2	15.4	15.8	16.3	16.7	17.9
	12H	15.6	15.9	16.6	16.9	18.1	15.3	15.6	16.3	16.6	17.8
8H	4H	15.7	16.1	16.7	17.0	18.2	15.4	15.8	16.3	16.7	17.9
	6H	15.6	15.9	16.5	16.9	18.1	15.2	15.5	16.2	16.5	17.7
	8H	15.5	15.8	16.5	16.8	18.0	15.2	15.5	16.1	16.4	17.6
	12H	15.4	15.7	16.4	16.6	17.9	15.1	15.3	16.1	16.3	17.6
12H	4H	15.6	16.0	16.6	16.9	18.1	15.3	15.6	16.2	16.5	17.8
	6H	15.5	15.8	16.5	16.7	17.9	15.1	15.4	16.1	16.4	17.6
	8H	15.4	15.7	16.4	16.6	17.9	15.1	15.3	16.1	16.3	17.5

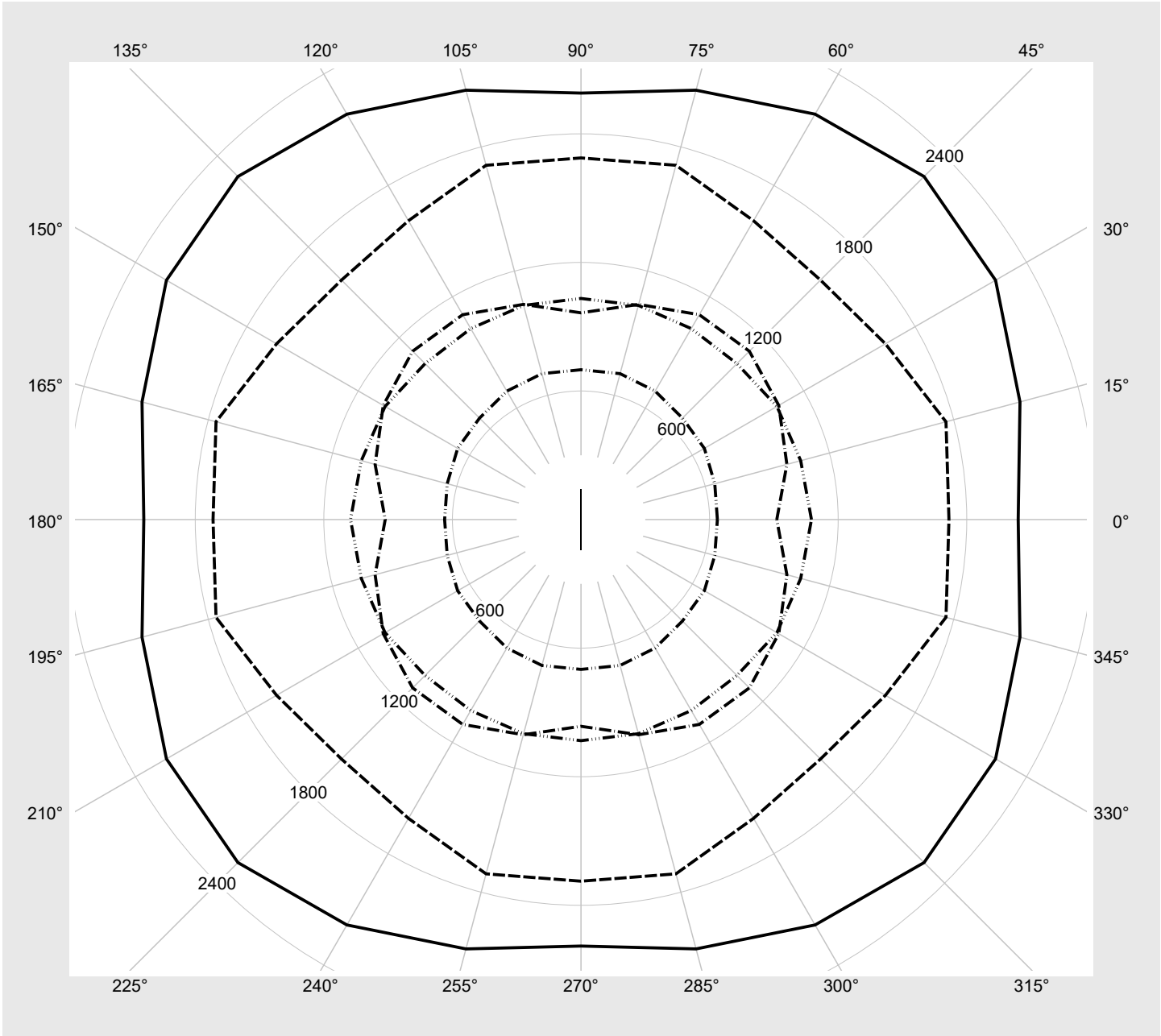
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2940 B = 49
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		19465.0	20213.3	20416.2	20341.9	19553.2	18139.7	17366.9	
50°		8360.1	8877.6	9470.6	9909.7	9232.1	8456.0	8156.7	
55°		3794.3	4129.4	4699.9	5425.5	4787.3	4034.6	3711.6	
60°		2667.2	2806.2	3055.4	3355.0	3057.3	2748.6	2610.4	
65°		2040.0	2120.6	2233.7	2263.9	2184.4	2074.3	1990.2	
70°		1716.9	1763.2	1640.3	1580.5	1610.2	1711.6	1687.6	
75°		913.6	994.6	1065.6	1111.0	1103.9	1039.5	964.7	
80°		636.4	646.3	664.6	669.6	692.1	704.8	699.2	
85°		1075.4	1061.3	1055.7	1029.0	1029.0	1034.6	1031.8	

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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	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	17650	97.4
95	241	252	16790	92.8
90	227	250	15860	87.3
85	214	248	14989	82.7
80	201	245	14114	77.5
75	188	243	13234	72.9
70	175	240	12349	67.8
65	162	238	11453	63.1
60	149	234	10556	58.3
55	137	231	9725	53.9
50	124	228	8819	48.8
45	111	224	7908	44.3
40	99	219	7064	40.0
35	86	214	6145	35.2
30	74	209	5294	30.8
25	62	202	4438	26.2
20	49	194	3502	21.3
15	37	183	2639	16.9
10	25	169	1774	12.3
5	13	145	905	7.6
2	6	117	396	4.2