

Photometric test report

Family
Silica® 21



Order number: 51MX36DC3DWB
EAN: 4058352893807

LP number
59280_69

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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

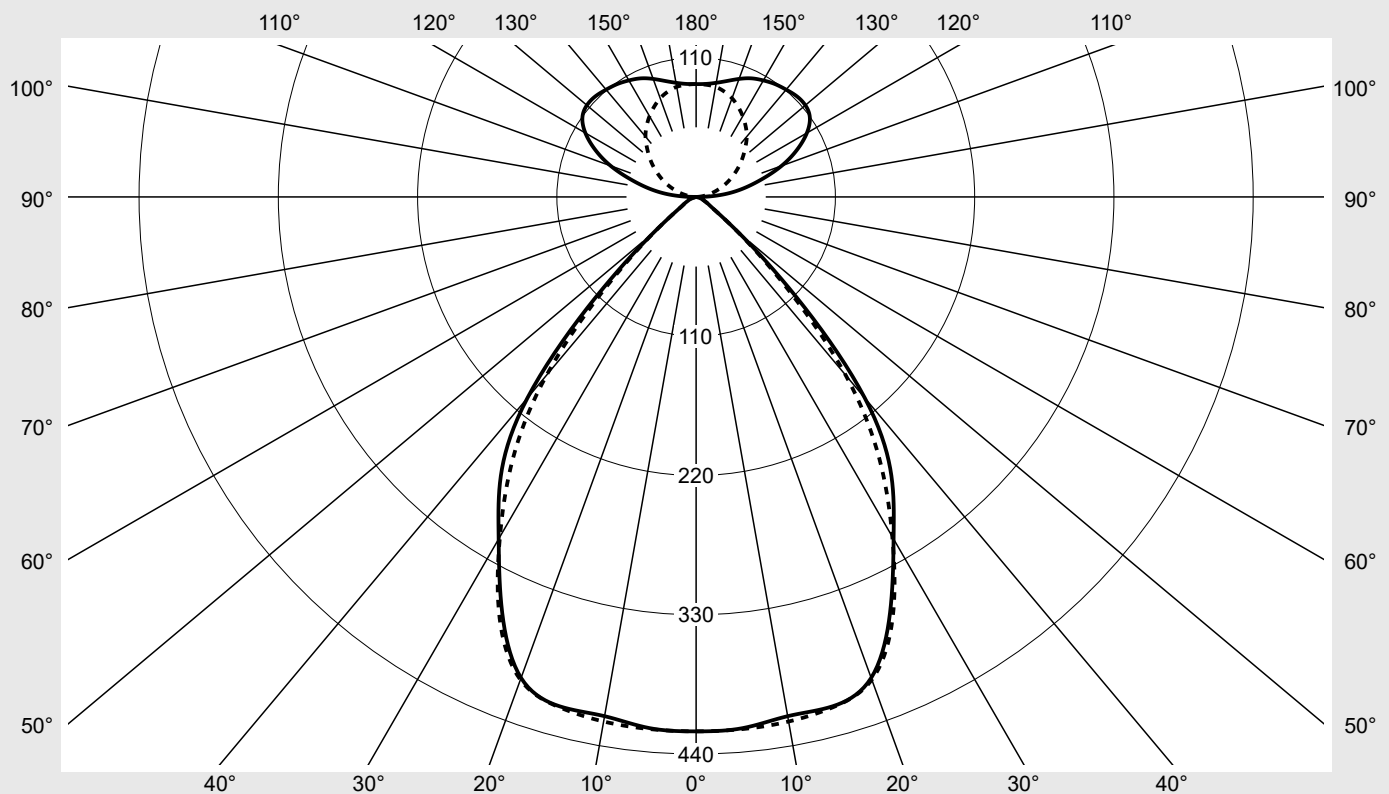
Rated values Net luminous flux = 17650 lm
Power consumption = 104.1 W
Luminous efficacy = 169.5 lm/W

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



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

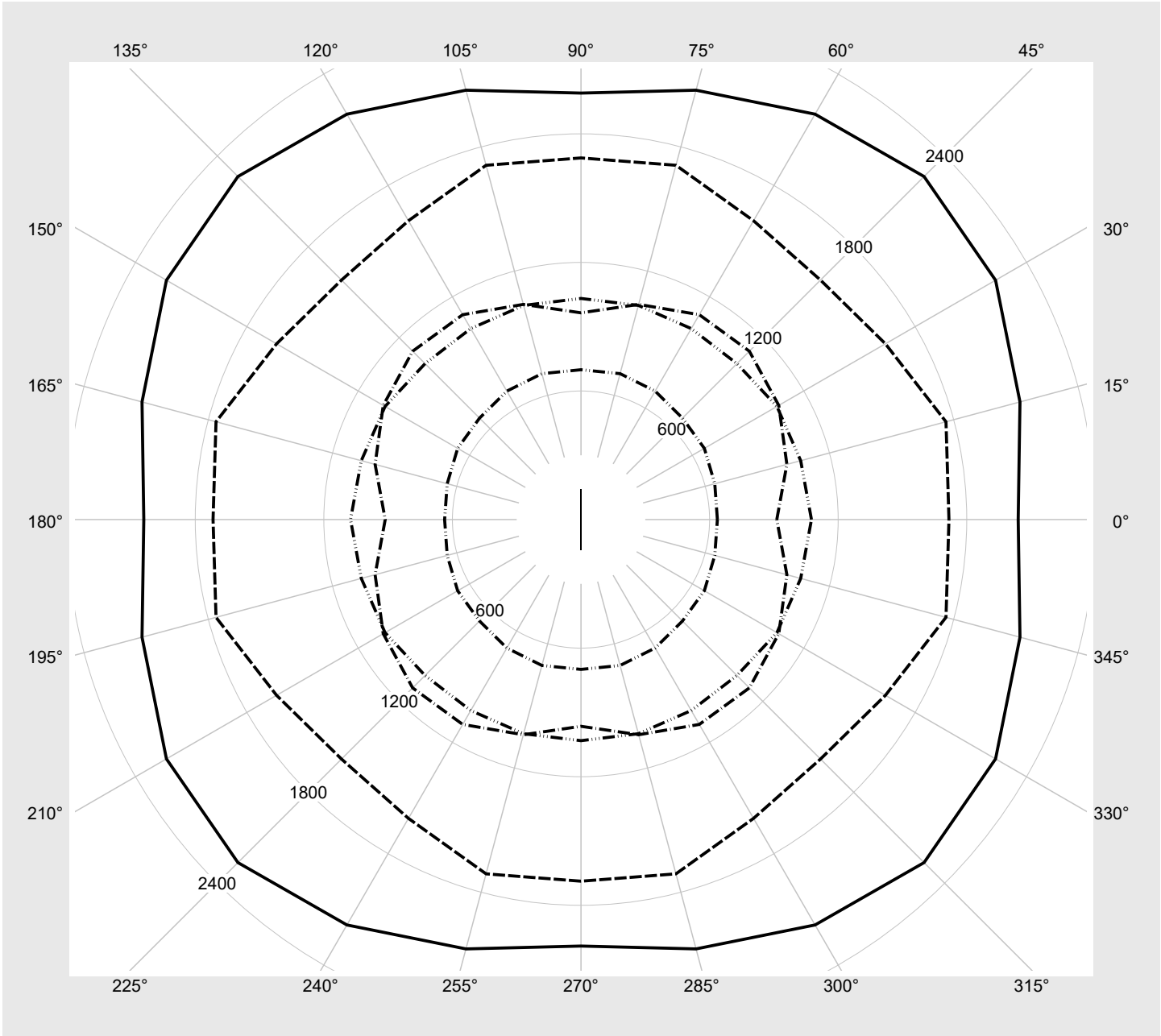
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2940 B = 49
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°	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° **siteco**



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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	104.1
95	241	252	16796	98.6
90	227	250	15870	93.5
85	214	248	15005	88.0
80	201	245	14135	83.1
75	188	243	13258	77.5
70	175	240	12377	72.6
65	162	238	11488	67.1
60	149	234	10589	62.1
55	136	231	9689	57.0
50	124	228	8853	52.2
45	111	224	7942	47.3
40	98	219	7026	42.1
35	86	214	6176	37.4
30	74	209	5321	32.8
25	61	202	4392	27.4
20	49	194	3524	22.6
15	37	183	2658	17.8
10	25	169	1787	12.9
5	13	145	913	7.9
2	6	117	401	4.4