

Photometric test report

Family
Silica®



Order number: **5MX21DD1W4A**
EAN: **4058352305386**

LP number
59138_1

Version surface-mounted and suspended luminaire, frosted cover, direct distribution, UGR≤25
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 3140 lm
Power consumption = 22.6 W
Luminous efficacy = 138.9 lm/W

serial
documentation
15.03.2021

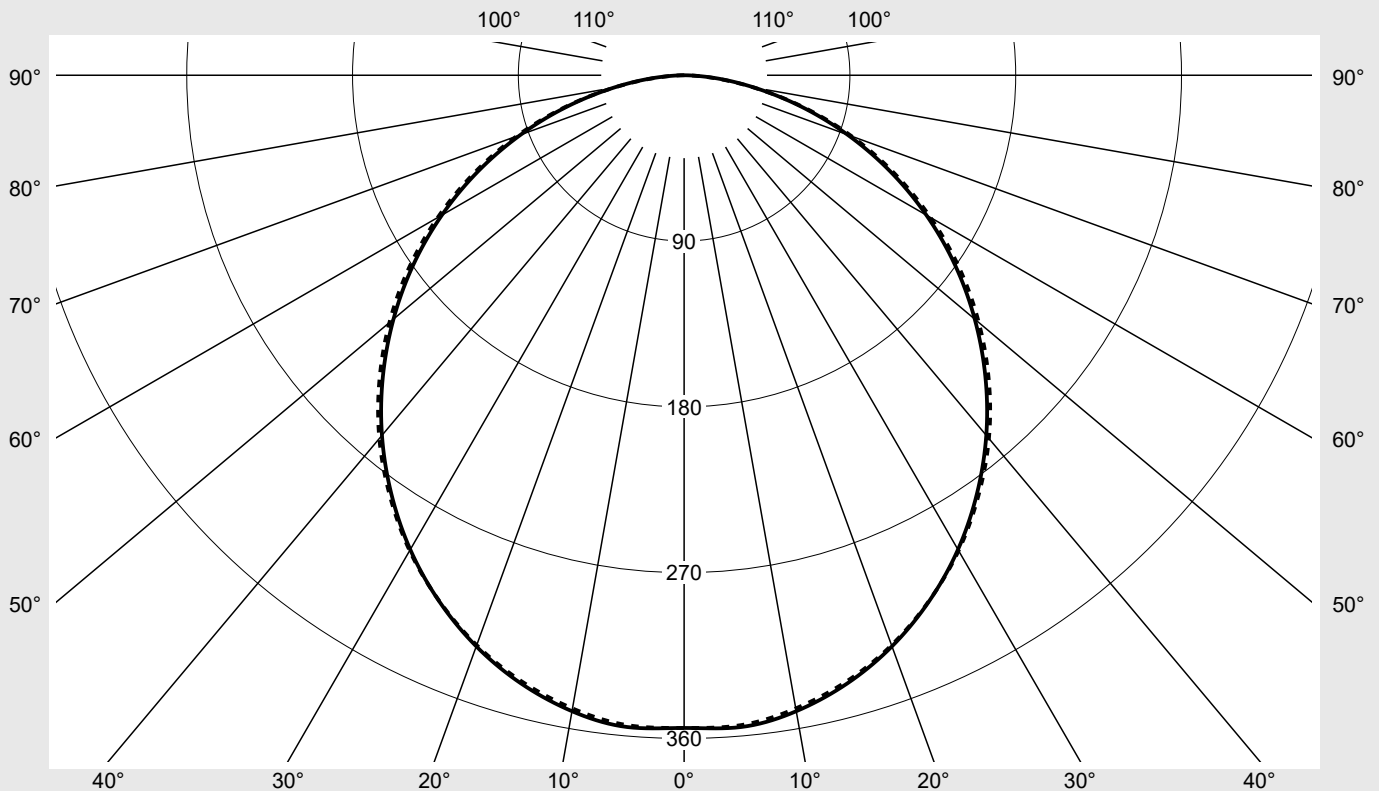
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 355 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=47 N2=79 N3=96
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

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°	354.3	354.3	354.3	354.3	354.3	354.3	354.3	2.1	2.1
5°	355.2	354.0	351.1	352.5	353.9	353.5	354.1	16.9	19.0
10°	350.5	349.4	346.7	348.0	349.4	348.8	349.0	33.2	52.2
15°	341.8	341.0	338.4	339.7	341.1	340.7	340.7	48.3	100.5
20°	329.9	329.5	326.9	328.3	329.6	329.5	329.2	61.7	162.1
25°	314.9	314.7	312.4	313.7	315.1	315.1	314.7	72.8	234.9
30°	297.3	297.3	295.2	296.3	297.7	298.1	298.0	81.4	316.3
35°	277.2	277.4	275.8	276.4	278.0	278.6	278.6	87.2	403.5
40°	255.2	255.4	254.6	254.7	256.0	257.1	257.4	90.1	493.6
45°	231.3	231.4	231.1	231.2	232.4	233.1	233.9	89.9	583.5
50°	206.0	205.9	206.3	206.2	207.1	207.7	208.8	86.8	670.4
55°	179.5	179.5	180.3	180.3	180.9	181.3	182.4	81.1	751.4
60°	151.9	152.0	153.0	153.1	153.5	153.9	154.4	72.7	824.1
65°	123.4	123.8	124.5	124.7	125.6	125.8	125.9	62.0	886.1
70°	94.5	95.2	95.0	95.8	96.4	96.8	96.8	49.3	935.5
75°	65.8	66.2	65.9	66.5	66.9	67.3	67.1	35.2	970.7
80°	38.9	38.8	38.8	38.5	38.6	38.6	38.5	20.9	991.6
85°	16.1	15.8	15.8	15.6	15.2	14.9	14.8	8.4	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	20.8	22.5	21.1	22.8	23.1	20.8	22.5	21.2	22.8	23.1
	3H	22.4	23.9	22.8	24.3	24.6	22.5	24.0	22.9	24.3	24.7
	4H	23.0	24.5	23.4	24.8	25.2	23.1	24.6	23.5	24.9	25.3
	6H	23.5	24.8	23.9	25.2	25.6	23.6	24.9	24.0	25.3	25.7
	8H	23.7	24.9	24.1	25.3	25.7	23.8	25.0	24.2	25.4	25.8
	12H	23.8	25.0	24.2	25.4	25.8	23.9	25.0	24.3	25.4	25.8
4H	2H	21.5	23.0	21.9	23.3	23.7	21.6	23.0	22.0	23.4	23.8
	3H	23.3	24.6	23.8	25.0	25.4	23.4	24.6	23.8	25.0	25.4
	4H	24.1	25.2	24.5	25.6	26.0	24.2	25.3	24.6	25.7	26.1
	6H	24.7	25.6	25.1	26.1	26.5	24.8	25.7	25.2	26.2	26.6
	8H	24.9	25.8	25.4	26.2	26.7	25.0	25.8	25.4	26.3	26.7
	12H	25.0	25.8	25.5	26.3	26.8	25.1	25.9	25.6	26.3	26.8
8H	4H	24.4	25.3	24.9	25.8	26.2	24.5	25.4	25.0	25.8	26.3
	6H	25.2	25.9	25.6	26.3	26.8	25.2	25.9	25.7	26.4	26.9
	8H	25.4	26.1	25.9	26.5	27.1	25.5	26.1	26.0	26.6	27.1
	12H	25.6	26.2	26.1	26.7	27.2	25.6	26.2	26.1	26.7	27.2
12H	4H	24.5	25.3	25.0	25.7	26.2	24.6	25.4	25.1	25.8	26.3
	6H	25.2	25.9	25.7	26.3	26.9	25.3	25.9	25.8	26.4	26.9
	8H	25.5	26.1	26.0	26.6	27.1	25.6	26.1	26.1	26.6	27.1

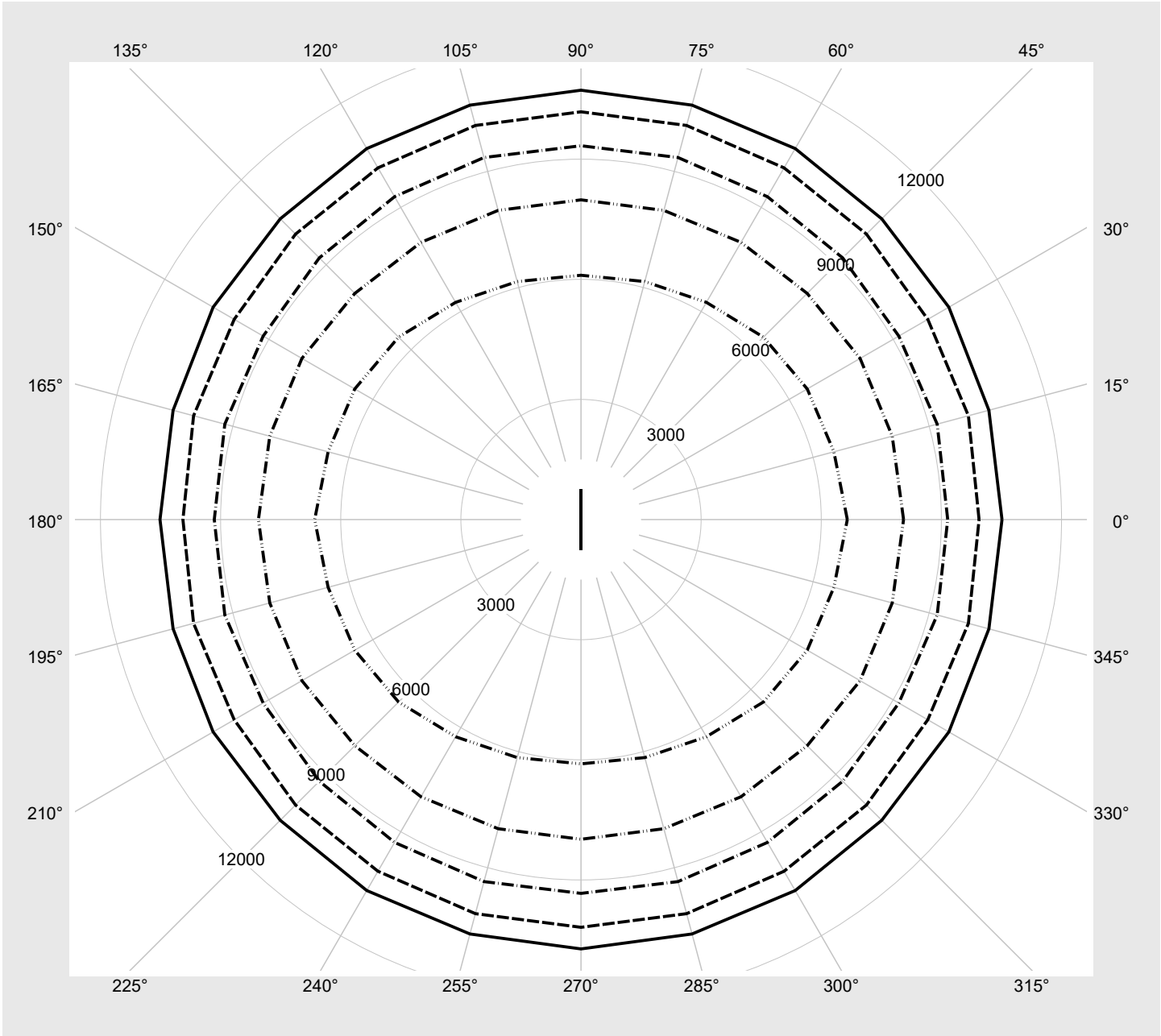
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1430 B = 61
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C-planes	γ	Luminance in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		11773.5	11777.8	11765.3	11767.8	11828.6	11865.1	11907.2
50°		11534.0	11532.5	11551.2	11547.8	11600.3	11633.3	11694.4
55°		11266.4	11263.7	11313.0	11315.6	11353.1	11376.7	11444.1
60°		10932.3	10944.6	11015.2	11020.8	11049.6	11077.9	11119.0
65°		10513.5	10545.4	10607.9	10621.7	10698.7	10714.7	10722.7
70°		9940.7	10016.1	10000.0	10081.7	10141.8	10189.3	10183.1
75°		9157.6	9208.7	9164.9	9241.9	9310.8	9360.6	9335.7
80°		8055.2	8046.5	8048.1	7988.0	7993.4	7993.4	7984.5
85°		6650.8	6538.1	6524.0	6443.1	6263.4	6154.0	6101.1

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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	3140	22.6
95	241	252	2984	21.5
90	228	250	2826	20.4
85	215	248	2667	19.4
80	202	246	2509	18.3
75	189	244	2349	17.2
70	177	242	2201	16.2
65	164	239	2041	15.1
60	151	236	1878	14.0
55	139	234	1729	13.1
50	126	231	1566	12.0
45	114	228	1415	11.0
40	101	224	1252	9.9
35	89	220	1098	8.9
30	77	216	946	8.0
25	64	211	780	6.9
20	52	205	626	6.0
15	40	199	472	5.1
10	28	191	316	4.1
5	16	184	161	3.3