

Photometric test report

Family
Silica®

Order number: **5MX11BD1W4A**
EAN: **4058352305249**

LP number
58997_5



Version recessed luminaire, Combined lens and reflector optics, frosted cover, direct distribution, $UGR \leq 19$ ($L65 \leq 3000 \text{ cd/m}^2$)

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 4950 lm
Power consumption = 29.3 W
Luminous efficacy = 168.9 lm/W

serial
documentation
07.10.2020

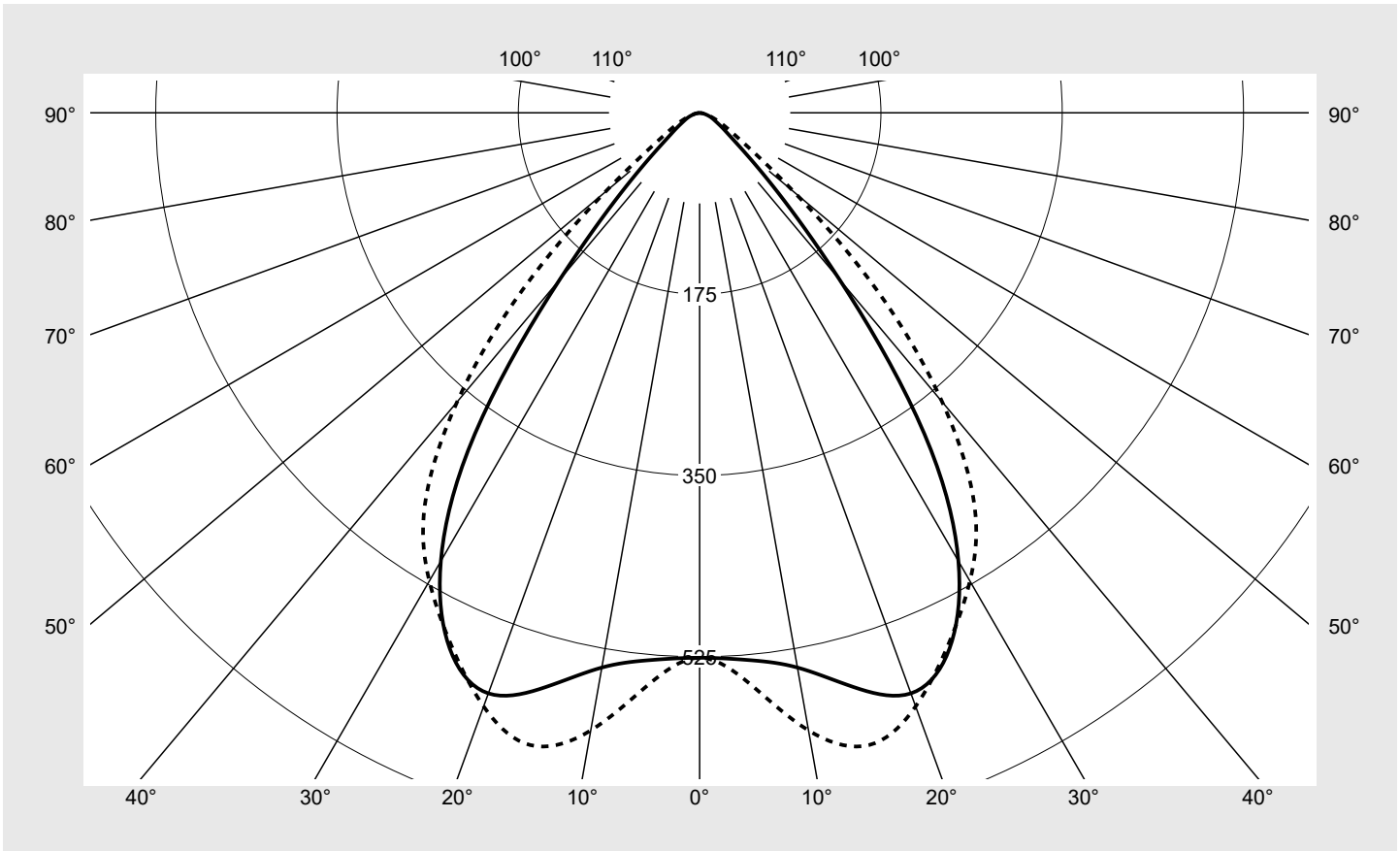
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 653 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=82 N2=97 N3=100
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°	525.9	525.9	525.9	525.9	525.9	525.9	525.9	3.1	3.1
5°	530.1	532.1	531.7	539.8	547.4	550.9	553.0	25.8	29.0
10°	543.6	552.3	561.3	580.0	594.8	602.1	605.3	55.0	83.9
15°	573.7	588.4	603.0	623.3	632.9	632.0	631.7	87.1	171.0
20°	596.3	620.1	639.0	641.8	629.5	614.8	609.6	117.1	288.1
25°	570.6	616.7	653.0	638.7	597.2	573.3	567.1	140.8	429.0
30°	499.6	560.3	609.4	604.2	567.1	527.4	521.8	154.4	583.3
35°	378.2	424.0	476.5	520.1	513.0	469.3	462.5	147.9	731.2
40°	210.0	238.9	292.3	362.7	384.1	367.3	364.2	113.5	844.7
45°	100.2	117.8	146.5	199.3	232.4	237.2	242.0	71.3	916.1
50°	49.1	55.7	69.4	82.4	93.7	107.9	119.5	34.5	950.6
55°	30.0	32.2	36.5	41.6	42.2	47.4	55.6	18.2	968.7
60°	20.2	21.0	22.3	23.8	24.3	28.1	32.8	11.6	980.3
65°	14.7	14.9	15.1	15.2	15.9	19.0	21.0	8.1	988.4
70°	10.4	10.5	10.3	10.1	10.5	12.3	12.9	5.6	994.0
75°	6.2	6.2	6.1	6.1	6.3	7.1	7.3	3.4	997.4
80°	3.3	3.3	3.3	3.3	3.4	3.8	3.9	1.9	999.3
85°	1.2	1.2	1.2	1.3	1.3	1.4	1.5	0.7	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	17.4	18.7	17.7	19.0	19.3	19.2	20.5	19.5	20.8	21.1
	3H	17.4	18.5	17.7	18.9	19.2	19.2	20.4	19.6	20.7	21.0
	4H	17.3	18.4	17.7	18.8	19.2	19.2	20.2	19.6	20.6	21.0
	6H	17.3	18.3	17.7	18.7	19.1	19.1	20.1	19.5	20.5	20.9
	8H	17.4	18.2	17.8	18.6	19.0	19.2	20.0	19.6	20.4	20.8
	12H	17.3	18.2	17.8	18.6	19.0	19.2	20.0	19.6	20.3	20.8
4H	2H	17.3	18.4	17.7	18.7	19.1	19.0	20.1	19.4	20.5	20.9
	3H	17.3	18.2	17.7	18.6	19.0	19.0	19.9	19.5	20.3	20.8
	4H	17.3	18.1	17.8	18.5	19.0	19.0	19.8	19.5	20.2	20.7
	6H	17.3	18.0	17.8	18.4	18.9	19.0	19.7	19.5	20.1	20.6
	8H	17.3	17.9	17.7	18.3	18.8	19.0	19.6	19.5	20.0	20.5
	12H	17.3	17.8	17.8	18.3	18.8	19.0	19.5	19.5	20.0	20.5
8H	4H	17.2	17.9	17.7	18.3	18.8	18.9	19.6	19.4	20.0	20.5
	6H	17.2	17.7	17.7	18.2	18.7	18.9	19.4	19.4	19.9	20.4
	8H	17.2	17.6	17.7	18.1	18.7	18.9	19.3	19.4	19.8	20.3
	12H	17.2	17.6	17.7	18.1	18.6	18.9	19.2	19.4	19.7	20.3
12H	4H	17.3	17.8	17.8	18.2	18.7	18.9	19.5	19.4	19.9	20.4
	6H	17.2	17.6	17.7	18.1	18.6	18.9	19.3	19.4	19.8	20.3
	8H	17.2	17.6	17.7	18.1	18.6	18.9	19.2	19.4	19.7	20.3

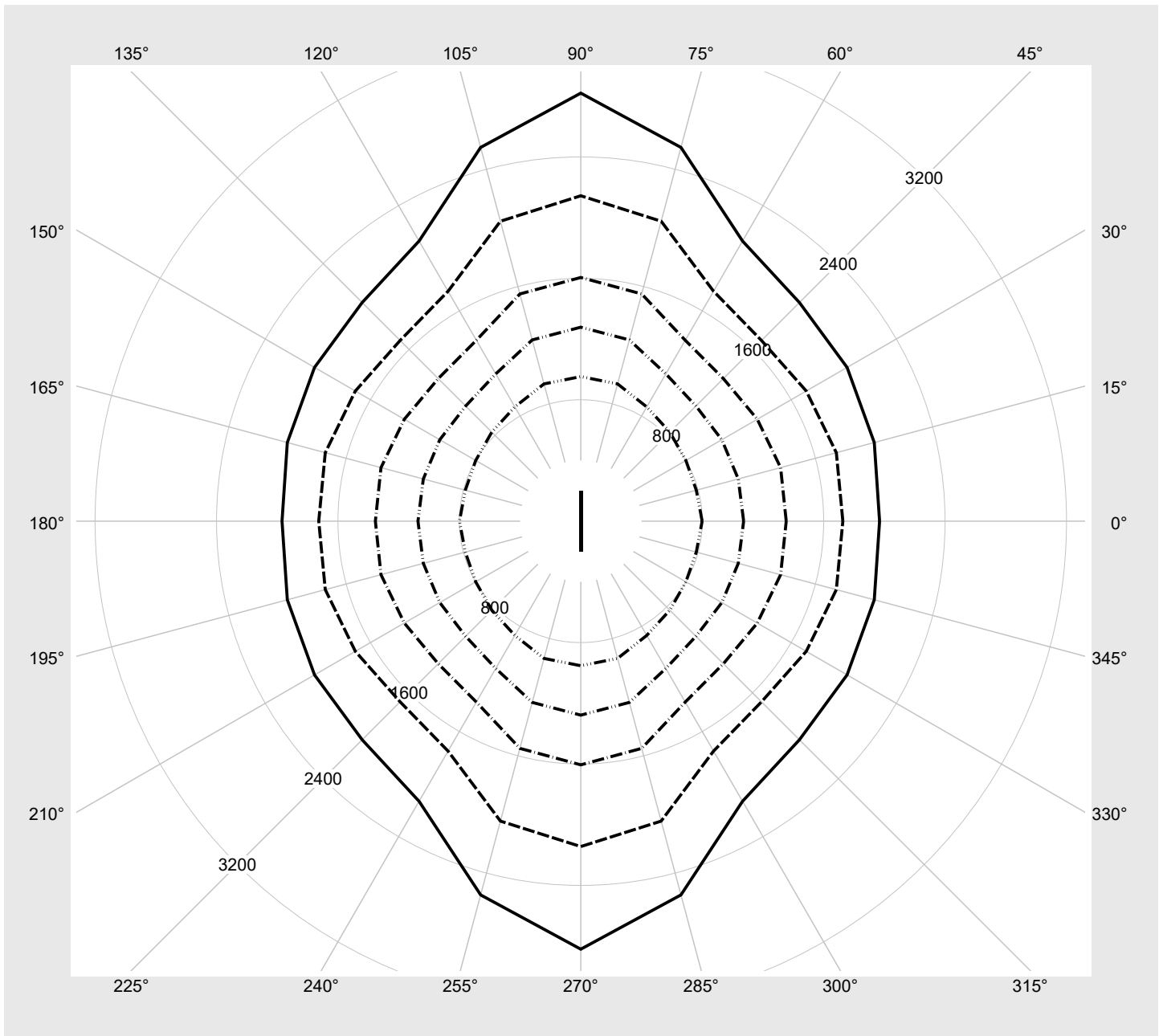
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1430 B = 61
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		8038.1	9456.8	11760.3	15995.8	18651.5	19037.9	19421.2	
50°		4334.1	4919.8	6128.1	7270.5	8268.0	9521.2	10551.0	
55°		2964.5	3189.3	3607.1	4115.5	4171.1	4693.7	5501.3	
60°		2293.7	2386.3	2529.1	2700.3	2761.4	3191.4	3721.3	
65°		1968.5	2001.8	2025.8	2037.1	2131.2	2549.5	2820.2	
70°		1726.5	1742.9	1715.2	1683.5	1749.2	2045.9	2144.0	
75°		1353.4	1362.9	1342.7	1328.4	1376.2	1549.9	1605.6	
80°		1072.9	1074.2	1072.9	1072.9	1120.6	1236.2	1278.1	
85°		799.5	787.8	799.5	829.5	869.2	936.3	952.5	

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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	4950	29.3
95	241	252	4706	27.9
90	228	250	4462	26.4
85	215	248	4216	24.9
80	202	246	3969	23.5
75	189	243	3720	22.0
70	176	241	3470	20.6
65	163	238	3218	19.2
60	150	235	2965	17.8
55	138	232	2730	16.4
50	125	228	2475	15.1
45	113	224	2237	13.7
40	100	220	1978	12.4
35	88	215	1739	11.1
30	75	209	1477	9.7
25	63	203	1235	8.4
20	51	195	991	7.2
15	39	185	746	5.9
10	27	172	500	4.7
5	15	150	253	3.6
2	8	127	108	2.8