

Photometric test report

Family
Silica®



Order number: **5MX31BD2W4A**
EAN: **4058352305461**

LP number
58997_9

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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting individual position: only direct light

Rated values Net luminous flux = 9910 lm
Power consumption = 60.1 W
Luminous efficacy = 164.9 lm/W

serial
documentation
07.10.2020

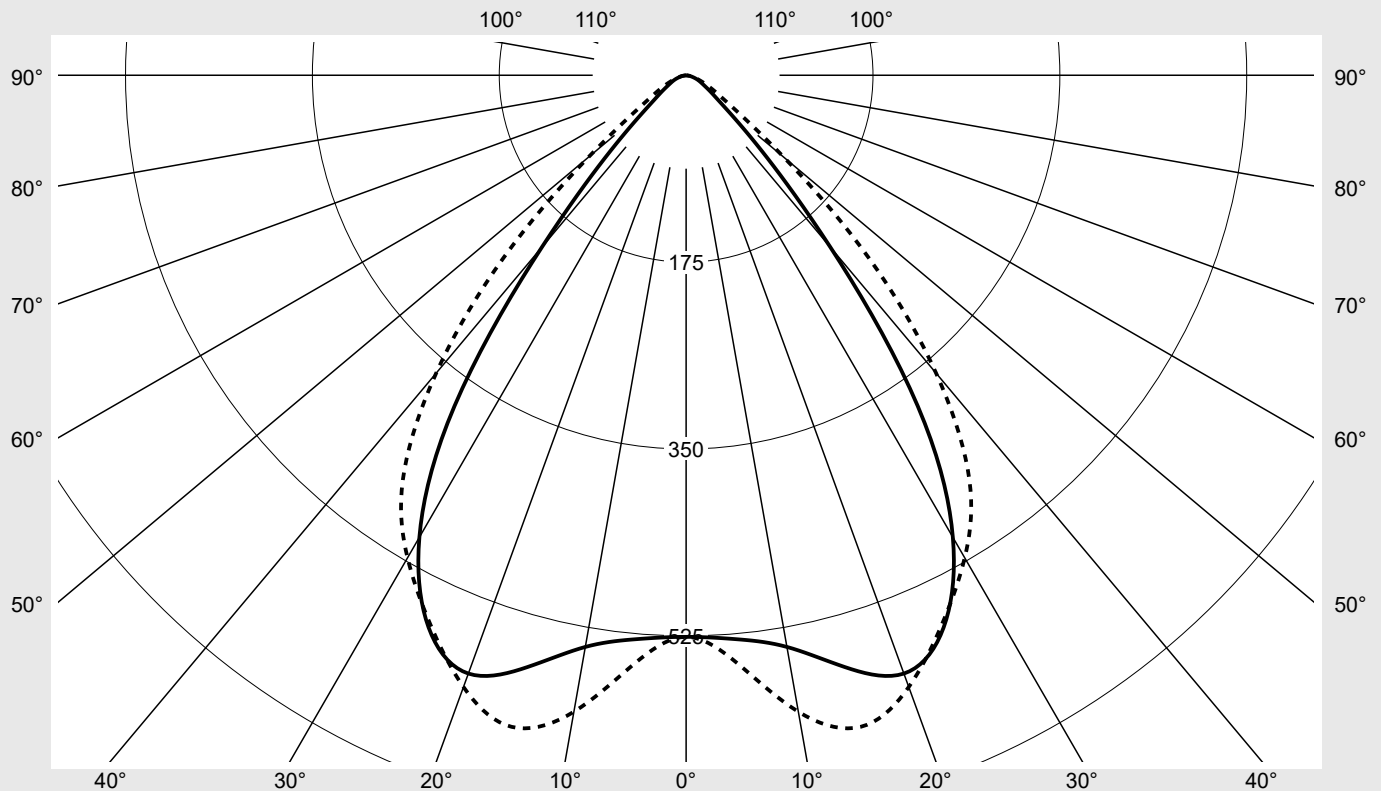
sitEco

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
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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	19.4	19.2	20.6	19.6	20.9	21.2
	3H	17.4	18.6	17.8	18.9	19.3	19.2	20.4	19.6	20.7	21.1
	4H	17.4	18.5	17.8	18.8	19.2	19.2	20.3	19.6	20.6	21.0
	6H	17.3	18.3	17.8	18.7	19.1	19.2	20.1	19.6	20.5	20.9
	8H	17.4	18.3	17.8	18.7	19.1	19.2	20.1	19.7	20.5	20.9
	12H	17.4	18.2	17.8	18.6	19.0	19.2	20.0	19.6	20.4	20.8
4H	2H	17.3	18.4	17.7	18.8	19.1	19.1	20.2	19.5	20.5	20.9
	3H	17.3	18.2	17.8	18.6	19.0	19.1	20.0	19.5	20.4	20.8
	4H	17.3	18.1	17.8	18.6	19.0	19.1	19.9	19.5	20.3	20.7
	6H	17.3	18.0	17.8	18.4	18.9	19.0	19.7	19.5	20.2	20.6
	8H	17.3	17.9	17.8	18.4	18.9	19.0	19.6	19.5	20.1	20.6
	12H	17.3	17.8	17.8	18.3	18.8	19.0	19.5	19.5	20.0	20.5
8H	4H	17.3	17.9	17.8	18.3	18.8	19.0	19.6	19.4	20.0	20.5
	6H	17.3	17.8	17.8	18.2	18.7	18.9	19.4	19.4	19.9	20.4
	8H	17.2	17.7	17.7	18.2	18.7	18.9	19.4	19.4	19.8	20.4
	12H	17.2	17.6	17.8	18.1	18.6	18.9	19.3	19.5	19.8	20.3
12H	4H	17.3	17.8	17.8	18.3	18.7	19.0	19.5	19.5	19.9	20.4
	6H	17.3	17.7	17.8	18.2	18.7	18.9	19.3	19.4	19.8	20.4
	8H	17.2	17.6	17.8	18.1	18.6	18.9	19.3	19.4	19.8	20.3

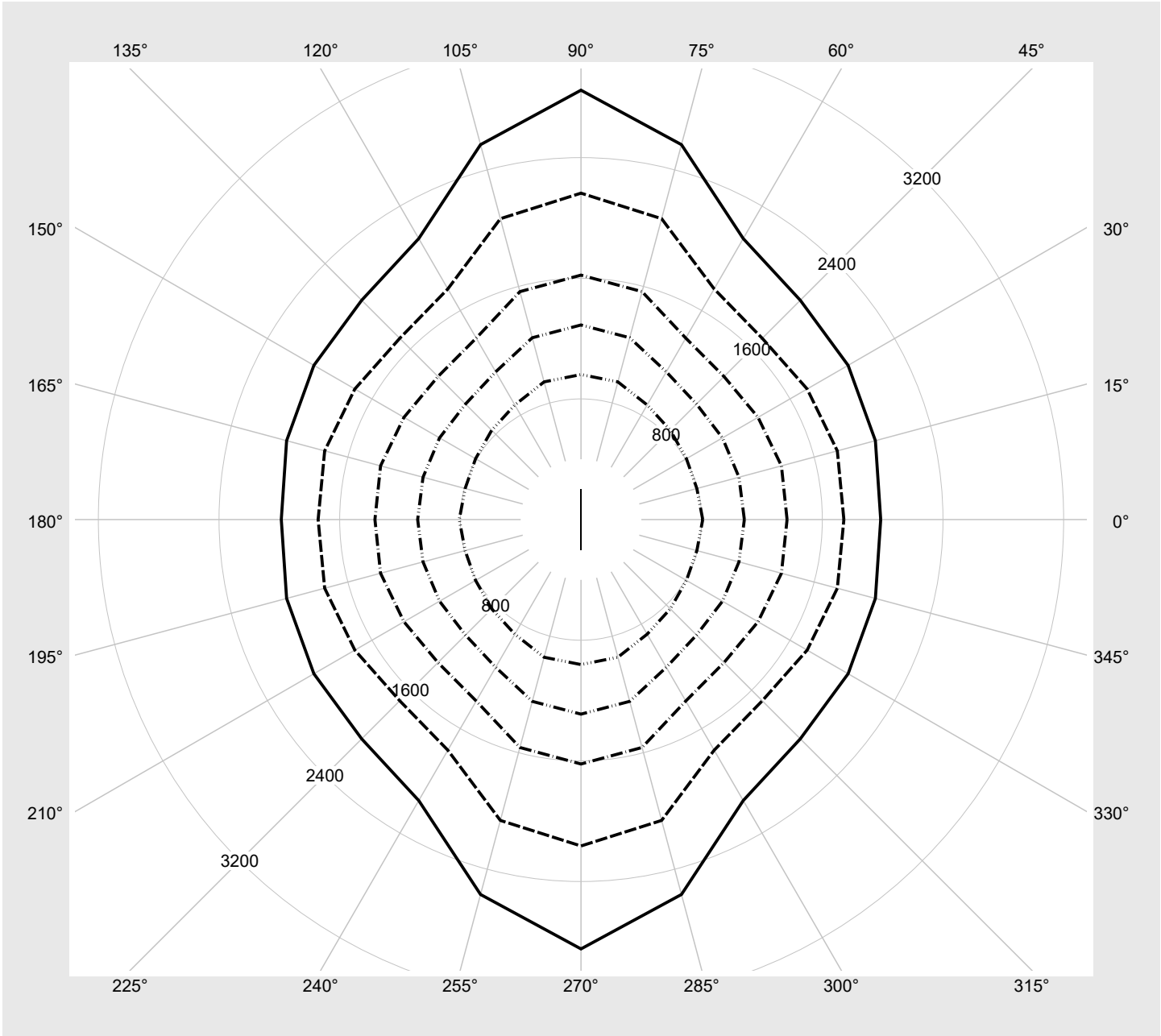
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2836 B = 61
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		8114.3	9546.4	11871.8	16147.4	18828.3	19218.4	19605.4	
50°		4375.2	4966.4	6186.2	7339.4	8346.3	9611.5	10651.1	
55°		2992.6	3219.5	3641.3	4154.5	4210.6	4738.2	5553.4	
60°		2315.4	2408.9	2553.1	2725.9	2787.6	3221.7	3756.6	
65°		1987.1	2020.7	2045.0	2056.4	2151.4	2573.6	2846.9	
70°		1742.9	1759.5	1731.5	1699.5	1765.8	2065.3	2164.3	
75°		1366.3	1375.8	1355.4	1341.0	1389.3	1564.6	1620.8	
80°		1083.0	1084.3	1083.0	1083.0	1131.2	1248.0	1290.2	
85°		807.1	795.3	807.1	837.4	877.5	945.1	961.6	

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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	9910	60.1
95	241	252	9421	57.1
90	228	250	8934	54.0
85	215	248	8442	50.9
80	202	246	7947	47.9
75	189	243	7451	44.8
70	176	241	6952	41.7
65	163	238	6446	38.7
60	150	235	5940	35.7
55	137	231	5433	32.8
50	125	228	4961	30.0
45	112	224	4445	27.1
40	100	220	3965	24.4
35	88	215	3486	21.7
30	75	209	2963	18.8
25	63	203	2475	16.1
20	51	195	1988	13.4
15	39	185	1500	10.8
10	27	172	1007	8.1
5	15	150	511	5.4
3	10	136	304	4.4