

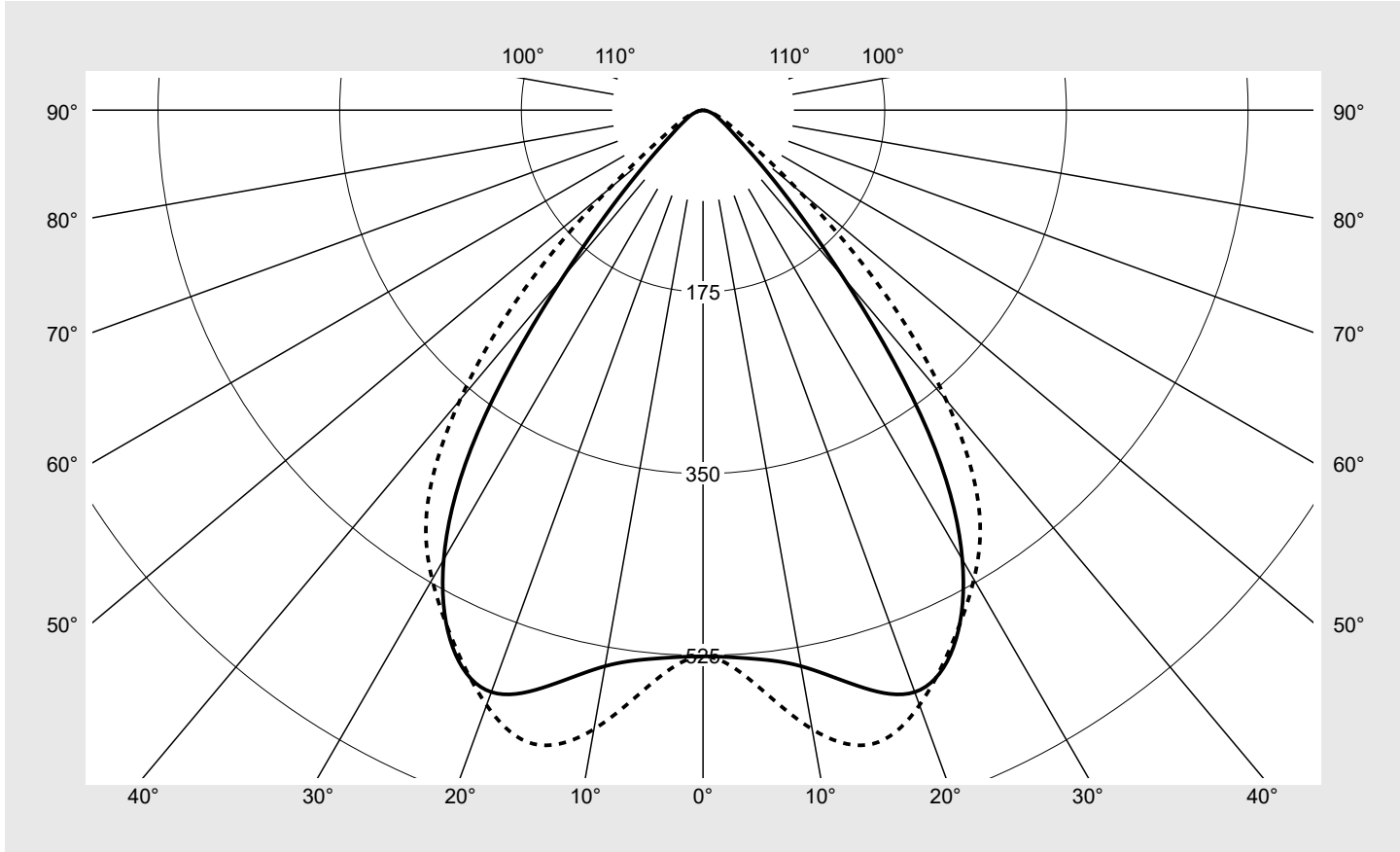


Photometric test report

Family Silica®	Order number: 5MX51BS8WZK00006XX EAN: 4058352374597	LP number 58997_12
	Version Combined lens and reflector optics, frosted cover, UGR≤19 (L65≤3000cd/m²) Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position: only direct light Rated values Net luminous flux = 7930 lm Power consumption = 48.1 W Luminous efficacy = 164.9 lm/W	serial documentation 06.04.2020

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	19.3	19.2	20.5	19.5	20.8	21.1
	3H	17.4	18.5	17.7	18.9	19.2	19.2	20.3	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	18.5	19.0	19.2	19.9	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	20.8
	3H	17.3	18.2	17.7	18.6	19.0	19.0	19.9	19.5	20.3	20.7
	4H	17.3	18.1	17.7	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	17.7	17.7	18.2	18.7	18.9	19.4	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	17.5	17.7	18.1	18.6	18.9	19.2	19.4	19.7	20.3

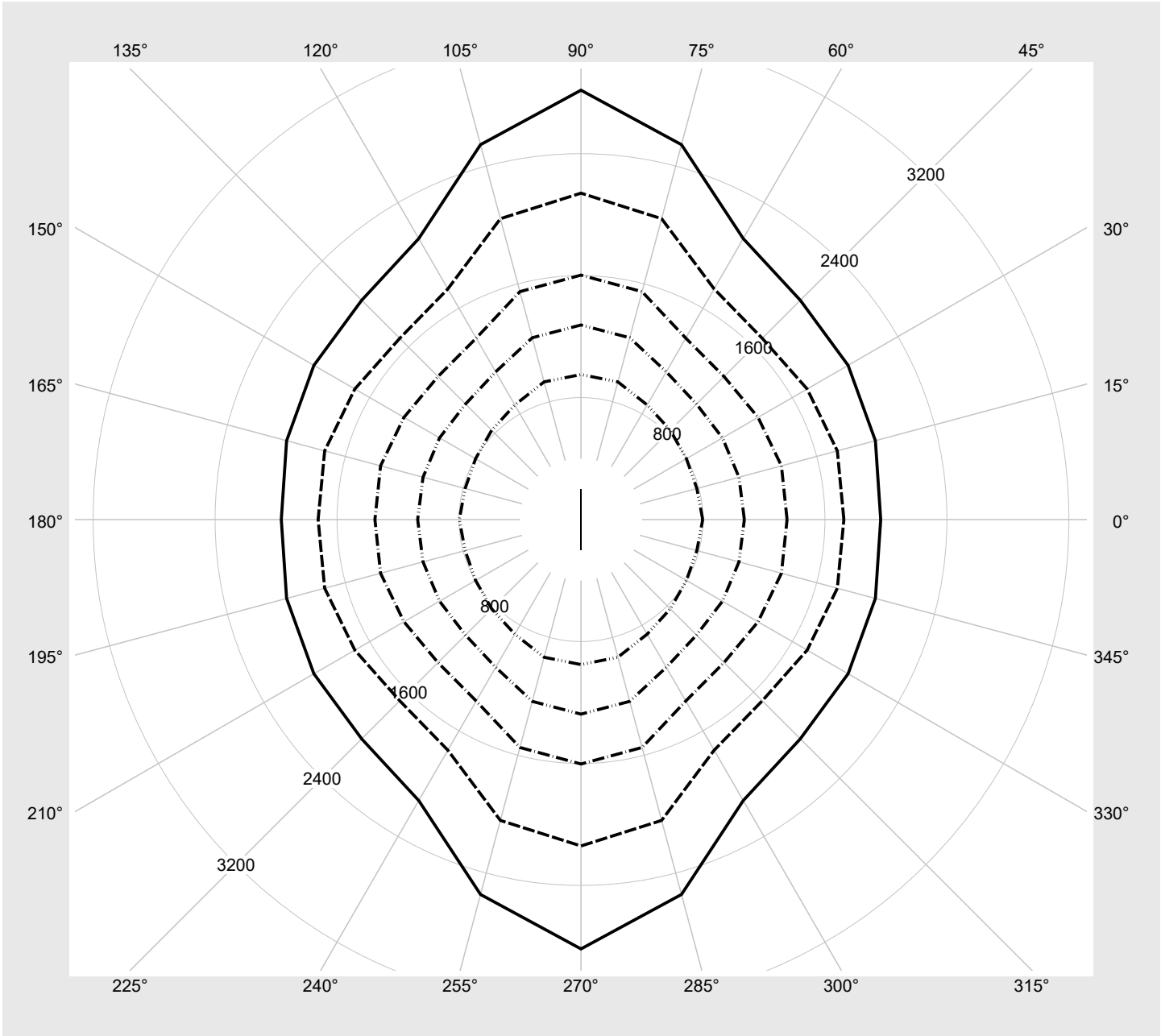
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2294 B = 61
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		8027.2	9444.0	11744.4	15974.1	18626.2	19012.1	19394.9	
50°		4328.2	4913.1	6119.8	7260.6	8256.7	9508.3	10536.7	
55°		2960.5	3184.9	3602.2	4109.9	4165.4	4687.3	5493.8	
60°		2290.6	2383.1	2525.6	2696.7	2757.7	3187.1	3716.3	
65°		1965.8	1999.0	2023.0	2034.3	2128.3	2546.0	2816.3	
70°		1724.2	1740.6	1712.9	1681.3	1746.9	2043.1	2141.1	
75°		1351.6	1361.0	1340.9	1326.6	1374.4	1547.8	1603.4	
80°		1071.4	1072.7	1071.4	1071.4	1119.0	1234.6	1276.3	
85°		798.5	786.8	798.5	828.4	868.0	935.0	951.3	

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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	7930	48.1
95	241	252	7539	45.7
90	228	250	7150	43.2
85	215	248	6755	40.8
80	202	246	6359	38.3
75	189	243	5962	35.8
70	176	241	5564	33.4
65	163	238	5158	30.9
60	150	235	4753	28.6
55	137	231	4347	26.2
50	125	228	3970	24.0
45	112	224	3557	21.7
40	100	220	3174	19.5
35	88	215	2789	17.4
30	75	209	2371	15.1
25	63	203	1981	12.9
20	51	195	1590	10.7
15	39	185	1200	8.6
10	27	172	805	6.6
5	15	150	409	4.4
3	10	136	243	3.5