

Photometric test report

Family
Silica®



Order number: 5MX51BS3WZK00002XX
EAN: 4058352370117

LP number
58997_13

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 = 3960 lm
 Power consumption = 24.4 W
 Luminous efficacy = 162.3 lm/W

serial
documentation
07.08.2020

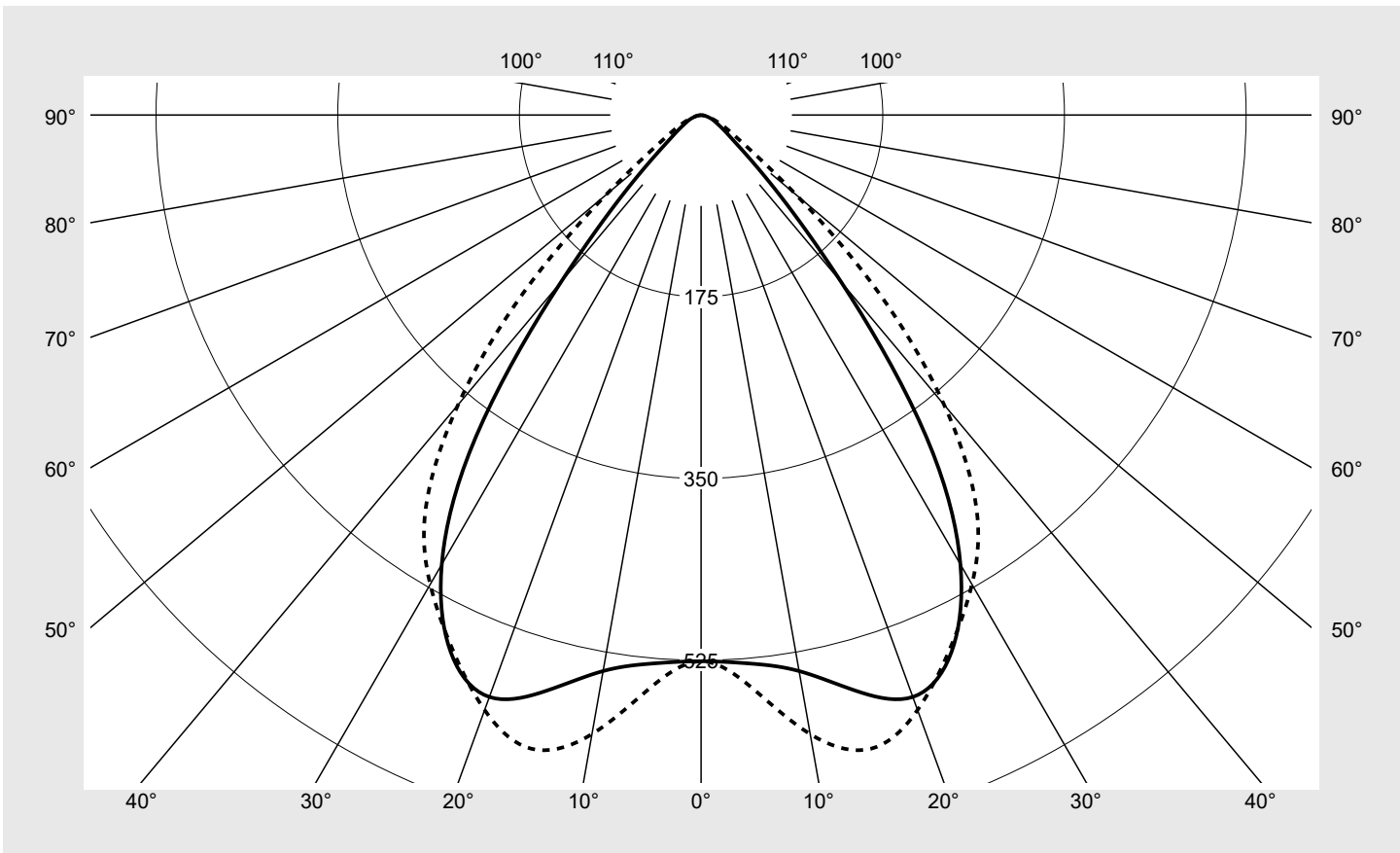
sitEco

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	17.3	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	19.1	20.2	19.5	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	18.9	19.0	19.8	19.5	20.2	20.7
	6H	17.3	18.0	17.7	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	17.8	17.7	18.3	18.8	18.9	19.5	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	18.0	18.6	18.9	19.2	19.4	19.7	20.3

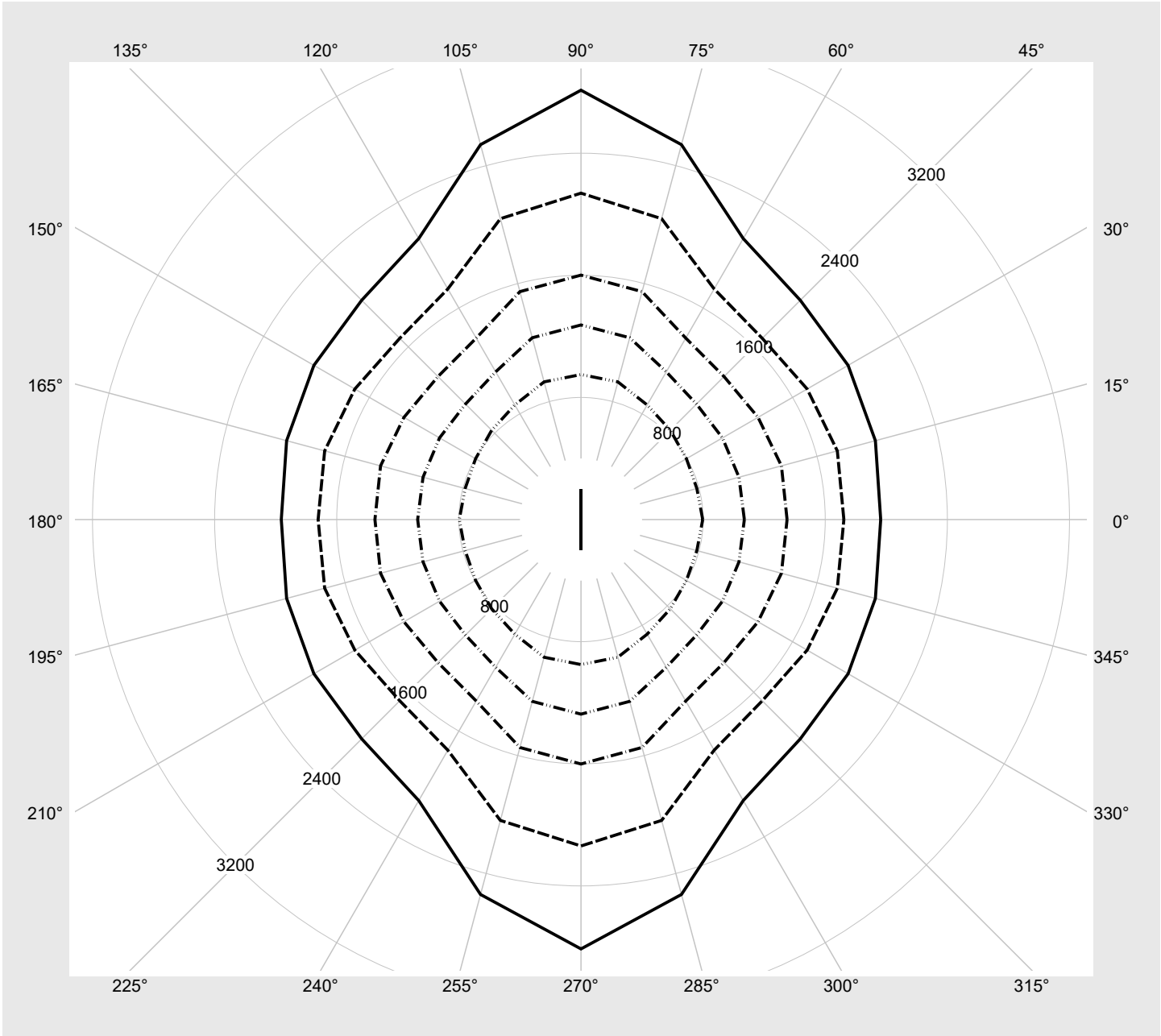
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1147 B = 61
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C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		8017.1	9432.0	11729.6	15953.9	18602.7	18988.1	19370.4
50°		4322.8	4906.9	6112.1	7251.4	8246.3	9496.3	10523.4
55°		2956.7	3180.9	3597.6	4104.7	4160.2	4681.4	5486.9
60°		2287.7	2380.1	2522.5	2693.3	2754.2	3183.1	3711.6
65°		1963.3	1996.5	2020.5	2031.7	2125.6	2542.8	2812.8
70°		1722.0	1738.4	1710.8	1679.1	1744.7	2040.6	2138.4
75°		1349.9	1359.3	1339.2	1325.0	1372.6	1545.8	1601.4
80°		1070.0	1071.4	1070.0	1070.0	1117.6	1233.0	1274.7
85°		797.5	785.8	797.5	827.3	866.9	933.8	950.1

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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	3960	24.4
95	241	252	3766	23.1
90	228	250	3571	21.9
85	214	248	3360	20.6
80	201	245	3162	19.4
75	188	243	2963	18.1
70	176	241	2779	17.0
65	163	238	2578	15.9
60	150	235	2376	14.7
55	137	231	2172	13.5
50	125	228	1983	12.4
45	112	224	1777	11.2
40	100	220	1586	10.1
35	87	215	1378	9.0
30	75	209	1185	7.9
25	63	203	991	6.9
20	51	195	796	5.9
15	39	185	600	4.8
10	27	172	402	3.9
5	15	150	204	2.9
2	8	127	88	2.2