

Photometric test report

Family
Silica® 21

Order number: 51MX36DB39WB
EAN: 4058352887059

LP number
59280_67

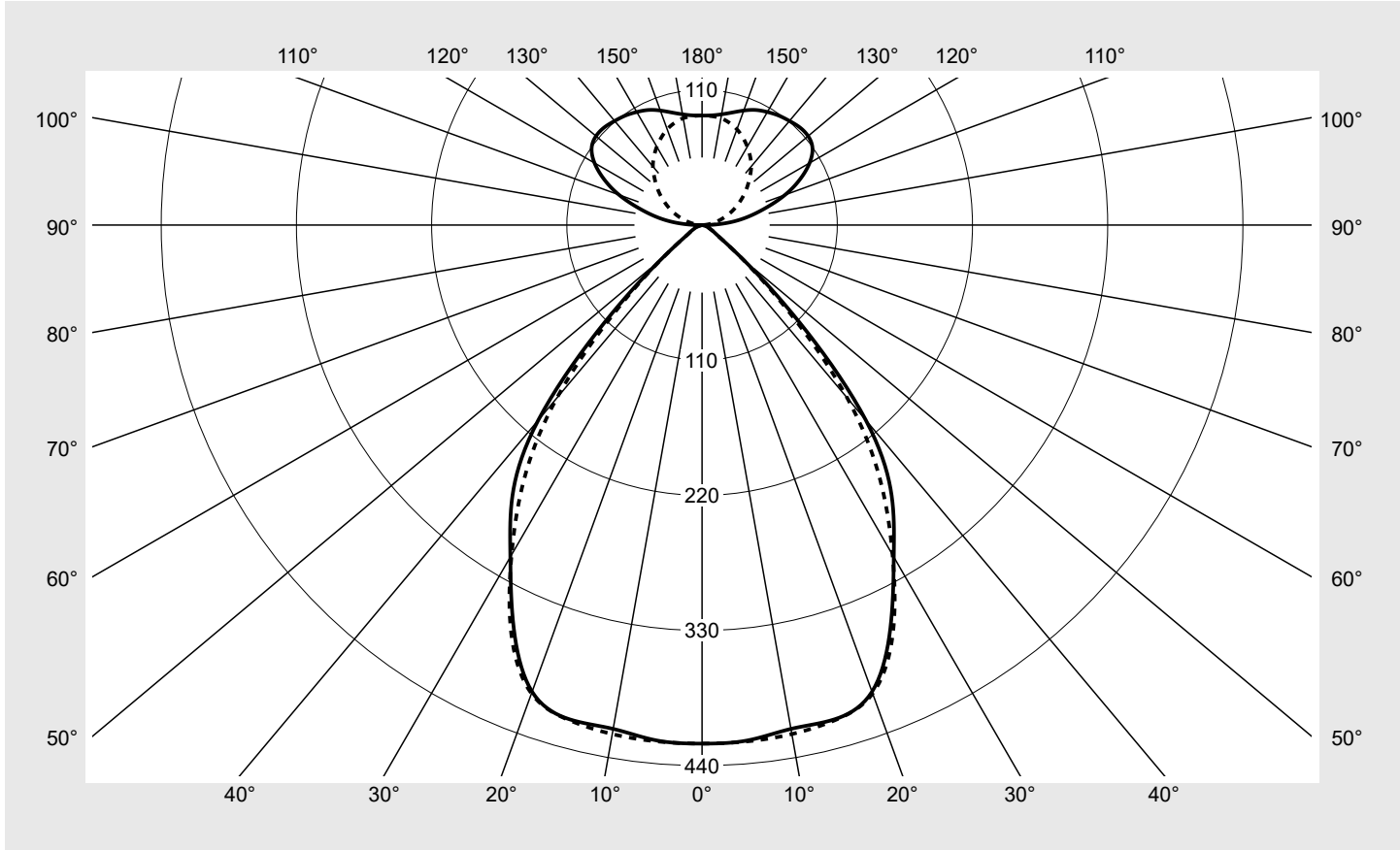


Version Suspended luminaire, reflector, white, direct-/indirect distribution, wide distribution, UGR≤16 (L65≤3000cd/m²)
Lamps LED 3000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 8820 lm
 Power consumption = 53.7 W
 Luminous efficacy = 164.2 lm/W

serial
documentation
02.08.2023



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 422 cd/klm**



Classifications	
DIN 5040	B 6 2
CIE	N1=83 N2=98 N3=100 N4=61 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	61.1%
ϕ_o	38.9%

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° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Total	
								Phi-zone	Phi-zone
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	422.1	422.1	422.1	422.1	422.1	422.1	422.1	2.5	2.5
5°	421.2	421.7	421.1	421.4	421.8	422.4	421.9	20.1	22.7
10°	416.4	415.9	416.6	418.5	420.4	419.5	420.7	39.8	62.5
15°	416.5	417.3	416.2	418.2	418.6	417.7	417.3	59.2	121.7
20°	404.3	408.0	408.5	410.6	406.7	404.4	405.8	76.3	198.0
25°	362.4	369.4	376.8	381.5	377.2	370.0	367.2	86.5	284.5
30°	311.9	316.7	317.8	318.8	318.6	312.7	309.9	86.6	371.1
35°	268.9	273.0	262.7	253.0	257.3	257.0	252.3	81.9	453.0
40°	207.2	211.8	206.6	199.5	199.2	191.4	183.8	70.7	523.7
45°	112.3	116.7	117.8	117.4	112.9	104.7	100.2	43.7	567.4
50°	43.9	46.6	49.7	52.0	48.4	44.4	42.8	19.9	587.3
55°	17.8	19.3	22.0	25.4	22.4	18.9	17.4	9.4	596.7
60°	10.9	11.5	12.5	13.7	12.5	11.2	10.7	5.7	602.4
65°	7.0	7.3	7.7	7.8	7.5	7.2	6.9	3.7	606.1
70°	4.8	4.9	4.6	4.4	4.5	4.8	4.7	2.4	608.5
75°	1.9	2.1	2.3	2.3	2.3	2.2	2.0	1.2	609.6
80°	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.5	610.2
85°	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.4	610.6
90°	4.5	4.3	4.6	4.5	2.7	0.9	0.3	1.8	612.3
95°	20.9	21.3	22.8	21.6	13.8	7.1	3.7	9.0	621.4
100°	37.3	38.3	38.6	33.8	22.7	12.8	8.4	15.2	636.6
105°	53.5	54.6	53.5	45.7	31.3	19.4	14.2	21.0	657.6
110°	71.9	72.1	67.6	56.3	40.1	26.2	20.3	26.5	684.1
115°	87.8	87.0	80.3	66.0	48.6	33.1	27.1	30.8	714.9
120°	101.0	99.4	90.6	73.9	56.6	39.8	33.7	33.8	748.7
125°	109.6	106.6	96.9	81.1	63.3	46.1	40.8	35.1	783.9
130°	112.6	110.2	99.9	85.4	68.4	52.7	47.8	34.8	818.6
135°	112.4	110.1	101.0	88.3	72.5	58.7	54.9	33.2	851.9
140°	110.6	108.9	101.3	90.4	76.0	64.5	62.2	31.0	882.8
145°	108.8	107.6	101.3	91.5	79.1	69.9	68.2	28.2	911.0
150°	106.2	105.8	100.1	91.4	81.7	75.0	73.6	24.8	935.9
155°	103.3	103.0	97.6	91.1	83.7	79.6	78.5	21.1	956.9
160°	99.2	99.0	94.6	90.3	85.5	83.2	82.9	17.0	973.9
165°	94.8	94.3	92.1	89.2	87.2	86.0	86.1	12.8	986.7
170°	91.5	91.1	90.5	89.3	88.4	88.3	88.3	8.5	995.2
175°	89.6	89.5	89.1	88.9	88.9	89.0	89.0	4.3	999.5
180°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	0.5	1000.0

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UGR-Table		Standard room									
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	16.6	17.5	17.4	18.3	19.3	16.2	17.1	17.0	17.9	18.9
	3H	16.3	17.1	17.2	18.0	19.0	16.0	16.8	16.9	17.7	18.7
	4H	16.2	16.9	17.1	17.8	18.9	15.9	16.6	16.8	17.5	18.6
	6H	16.0	16.7	16.9	17.6	18.7	15.8	16.4	16.7	17.3	18.4
	8H	16.0	16.6	16.9	17.4	18.6	15.6	16.2	16.5	17.1	18.2
	12H	15.9	16.4	16.8	17.3	18.5	15.6	16.1	16.5	17.0	18.2
4H	2H	16.3	17.0	17.1	17.8	18.9	15.9	16.6	16.7	17.4	18.5
	3H	16.1	16.7	17.0	17.5	18.7	15.7	16.3	16.6	17.2	18.3
	4H	15.9	16.5	16.8	17.4	18.5	15.6	16.1	16.5	17.0	18.2
	6H	15.8	16.2	16.7	17.1	18.3	15.5	15.9	16.4	16.8	18.0
	8H	15.7	16.1	16.6	17.0	18.2	15.4	15.8	16.3	16.7	17.9
	12H	15.6	15.9	16.6	16.9	18.1	15.3	15.6	16.3	16.6	17.8
8H	4H	15.7	16.1	16.7	17.0	18.2	15.4	15.8	16.3	16.7	17.9
	6H	15.6	15.9	16.5	16.9	18.1	15.2	15.5	16.2	16.5	17.7
	8H	15.5	15.8	16.5	16.8	18.0	15.2	15.5	16.1	16.4	17.6
	12H	15.4	15.7	16.4	16.6	17.9	15.1	15.3	16.1	16.3	17.5
12H	4H	15.6	16.0	16.6	16.9	18.1	15.3	15.6	16.2	16.5	17.8
	6H	15.5	15.8	16.5	16.7	17.9	15.1	15.4	16.1	16.4	17.6
	8H	15.4	15.7	16.4	16.6	17.9	15.1	15.3	16.1	16.3	17.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1470 B = 49	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	19454.0	20201.9	20404.7	20330.4	19542.1	18129.4	17357.1
50°	8355.4	8872.6	9465.2	9904.1	9226.9	8451.2	8152.1
55°	3792.1	4127.1	4697.3	5422.5	4784.6	4032.3	3709.5
60°	2665.7	2804.6	3053.6	3353.1	3055.6	2747.0	2608.9
65°	2038.9	2119.4	2232.4	2262.6	2183.2	2073.1	1989.1
70°	1716.0	1762.2	1639.4	1579.6	1609.3	1710.6	1686.6
75°	913.1	994.0	1065.0	1110.4	1103.3	1038.9	964.2
80°	636.1	645.9	664.3	669.2	691.8	704.5	698.8
85°	1074.8	1060.7	1055.1	1028.4	1028.4	1034.0	1031.2

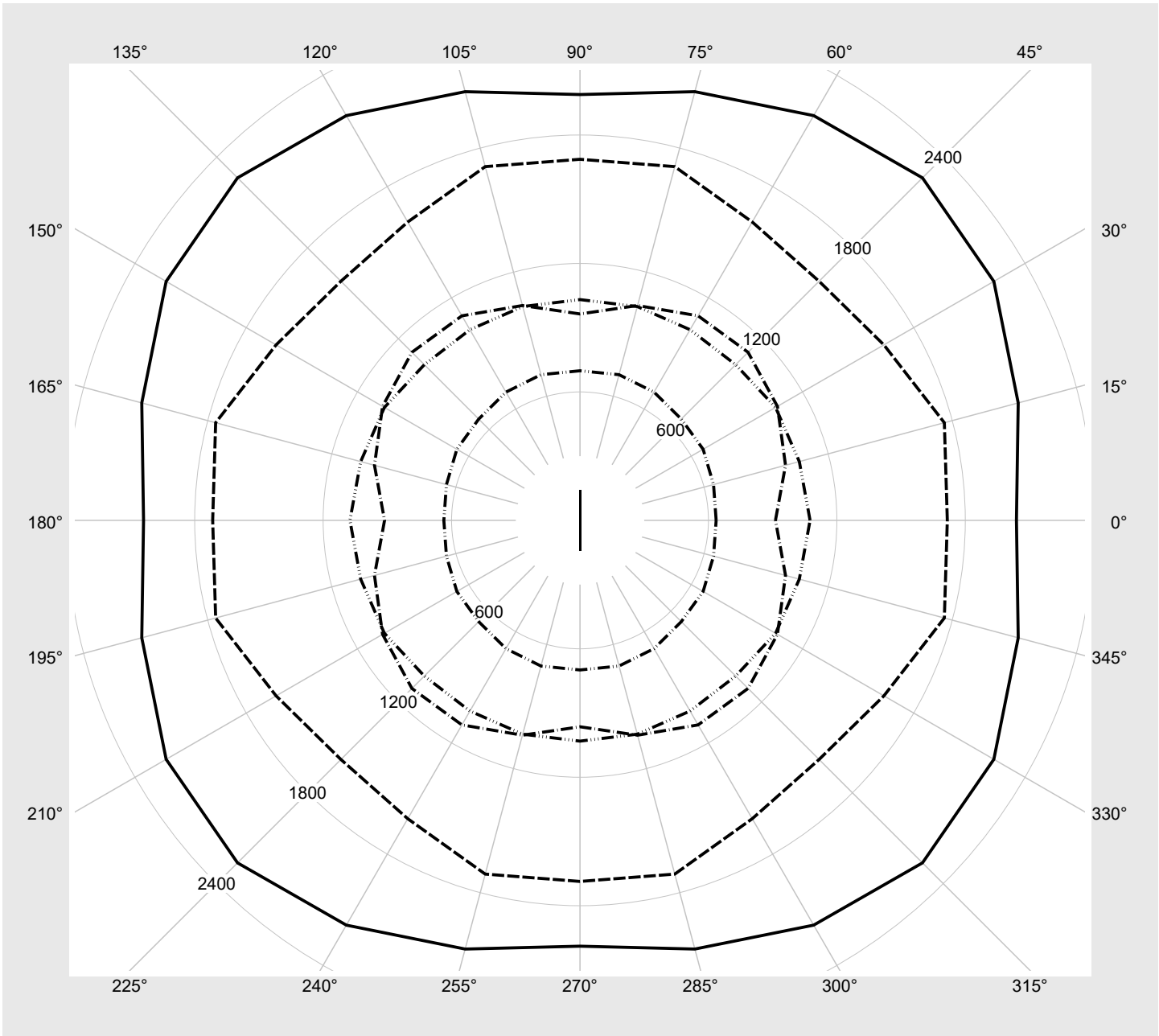
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Luminance values in cd/m²

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	8820	53.7
95	241	252	8394	51.1
90	227	250	7931	48.2
85	214	248	7499	45.5
80	201	245	7062	42.9
75	188	243	6622	40.2
70	175	240	6182	37.5
65	162	238	5738	34.8
60	149	234	5291	32.2
55	136	231	4841	29.5
50	124	228	4424	27.1
45	111	224	3969	24.5
40	98	219	3511	21.8
35	86	214	3086	19.4
30	74	209	2659	17.0
25	61	202	2192	14.3
20	49	194	1761	11.9
15	37	183	1328	9.6
10	25	169	893	7.2
5	13	145	456	5.0
2	6	117	200	4.2