

Photometric test report

Family
Silica® 21

Order number: 51MX34DA37S
EAN: 4058352605615

LP number
59283_15

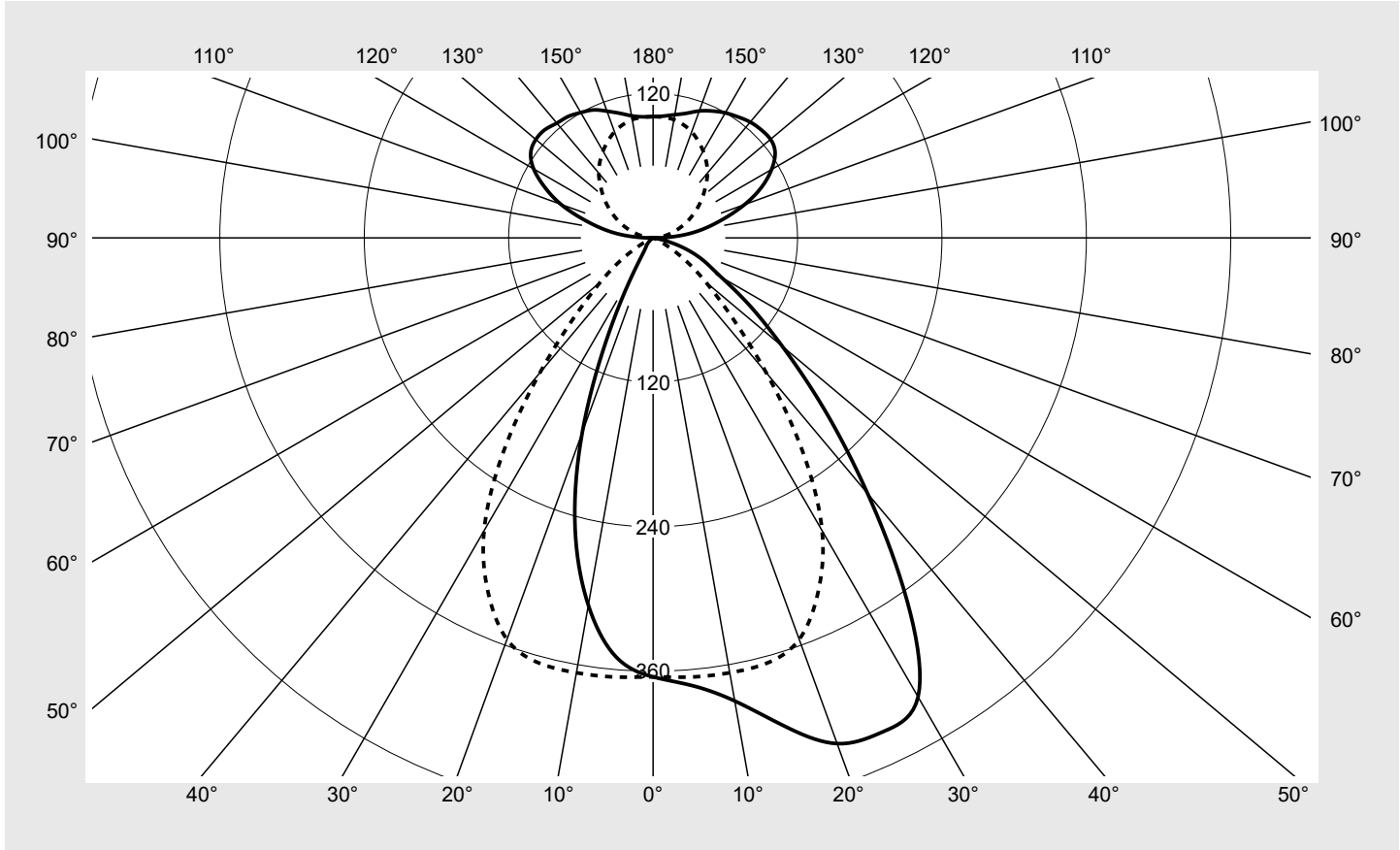


Version Suspended luminaire, reflector, black, direct-/indirect distribution, asymmetric distribution
Lamps LED 3000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 7330 lm
 Power consumption = 59.7 W
 Luminous efficacy = 122.8 lm/W

serial documentation
04.03.2022



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 461 cd/klm**



Classifications

DIN 5040	C 6 2
CIE	N1=74 N2=94 N3=99 N4=56 N5=100

Luminaire light output ratios

η_{LB}	100.0%
ϕ_u	56.1%
ϕ_o	43.9%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	Luminous intensity in cd/klm						
0°	364.7	364.7	364.7	364.7	364.7	364.7	364.7
5°	373.4	374.2	373.9	372.4	372.0	370.0	366.2
10°	390.7	390.9	390.3	389.7	385.4	375.2	366.9
15°	419.6	426.1	426.0	420.4	403.3	382.3	365.7
20°	447.1	456.4	458.5	446.1	411.0	376.9	355.0
25°	452.6	460.6	453.6	431.0	395.6	351.4	324.5
30°	440.3	439.8	430.3	390.5	349.9	308.3	280.9
35°	367.9	364.8	361.9	334.1	285.8	241.7	216.7
40°	277.4	282.5	289.0	275.8	227.9	175.0	146.3
45°	200.8	207.3	222.4	214.2	174.3	117.9	91.5
50°	140.2	148.6	163.4	159.9	127.4	79.2	57.1
55°	98.0	104.1	120.3	117.5	94.9	52.4	33.6
60°	65.5	71.2	86.2	87.8	71.3	30.8	14.6
65°	48.2	50.7	59.5	65.1	47.4	16.3	4.7
70°	32.8	36.4	42.5	43.7	27.4	8.4	1.8
75°	16.4	20.5	29.1	21.1	13.2	4.7	0.6
80°	2.7	3.9	8.6	8.4	6.0	1.9	0.3
85°	1.0	1.1	1.6	1.5	0.7	0.5	0.5
90°	5.1	4.9	5.2	5.1	3.1	1.0	0.4
95°	23.6	24.1	25.8	24.5	15.6	8.0	4.1
100°	42.3	43.3	43.7	38.5	25.8	14.5	9.5
105°	60.4	61.7	60.5	51.6	35.4	21.8	16.0
110°	80.9	81.7	76.3	63.6	45.4	29.6	23.0
115°	99.3	98.4	90.6	74.6	54.9	37.4	30.6
120°	113.7	112.0	102.2	83.3	64.1	44.9	38.1
125°	123.7	120.5	109.6	92.0	71.5	52.1	46.1
130°	127.4	124.7	113.0	96.3	77.5	59.5	54.0
135°	127.0	124.4	114.1	99.9	82.2	66.6	62.0
140°	125.6	123.2	114.1	102.3	86.1	73.2	70.3
145°	122.8	121.6	114.6	103.4	89.6	79.2	77.1
150°	119.9	119.3	113.7	103.5	92.3	85.0	83.2
155°	116.3	116.3	110.3	102.8	94.6	90.3	88.8
160°	112.2	112.1	106.9	101.9	96.9	93.8	93.7
165°	107.2	106.8	103.8	100.5	98.5	97.0	97.3
170°	103.9	102.9	102.2	100.5	99.8	99.7	99.8
175°	101.6	101.2	100.4	100.2	100.5	100.4	100.5
180°	100.7	100.7	100.7	100.7	100.7	100.7	100.7

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Table of values for luminous intensities		Maximum luminous intensity
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C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	364.7	364.7	364.7	364.7	364.7	364.7	2.2	2.2
5°	362.9	358.9	355.8	351.9	350.5	349.8	17.4	19.6
10°	356.4	346.7	334.3	322.3	312.5	309.9	34.3	53.9
15°	351.5	329.8	301.2	272.8	255.4	250.3	50.5	104.3
20°	332.5	299.0	251.5	205.7	180.6	172.0	63.8	168.1
25°	300.5	247.9	184.7	134.5	99.3	86.1	70.5	238.6
30°	246.1	187.5	119.2	65.0	36.4	29.2	70.5	309.2
35°	174.7	119.3	62.2	24.9	14.0	12.2	62.6	371.8
40°	109.6	67.1	27.5	12.3	9.3	8.7	51.8	423.6
45°	65.7	34.8	12.8	8.3	6.4	5.9	40.7	464.3
50°	38.9	17.2	7.5	5.5	3.9	3.3	30.8	495.1
55°	21.5	8.7	4.7	3.3	2.1	1.8	22.9	518.0
60°	8.2	4.3	2.8	2.0	1.5	1.3	16.4	534.4
65°	2.7	2.1	1.7	1.4	1.0	0.7	11.5	545.9
70°	1.1	1.1	0.9	0.8	0.6	0.3	7.8	553.7
75°	0.4	0.5	0.5	0.4	0.4	0.3	4.4	558.1
80°	0.2	0.3	0.3	0.3	0.2	0.2	1.4	559.5
85°	0.5	0.5	0.6	0.6	0.6	0.6	0.4	559.9
90°	1.0	3.1	5.1	5.2	4.9	5.1	2.0	562.0
95°	8.1	15.6	24.4	25.8	24.1	23.5	10.2	572.1
100°	14.5	25.6	38.0	43.6	43.3	41.9	17.2	589.3
105°	21.9	35.3	51.6	60.4	61.7	60.5	23.8	613.1
110°	29.6	45.2	63.5	76.5	81.3	81.5	29.9	643.0
115°	37.4	55.0	74.7	90.7	98.3	99.2	34.9	677.9
120°	45.0	63.8	83.7	102.6	112.6	114.6	38.2	716.1
125°	52.1	71.5	91.4	109.3	120.5	124.0	39.7	755.8
130°	59.5	77.1	96.8	112.7	124.3	127.2	39.3	795.1
135°	66.2	81.6	99.7	114.1	124.5	127.1	37.5	832.6
140°	72.6	85.5	102.0	114.8	123.0	124.4	35.0	867.6
145°	78.7	89.2	103.4	114.2	121.7	123.1	31.9	899.4
150°	84.6	92.4	103.1	112.6	119.8	120.2	28.1	927.5
155°	89.7	94.6	103.0	110.2	116.6	117.3	23.8	951.3
160°	94.2	96.3	102.1	107.0	111.6	112.0	19.2	970.5
165°	97.4	98.7	101.2	104.4	106.4	107.2	14.4	985.0
170°	99.8	100.1	101.3	102.3	102.9	103.0	9.6	994.6
175°	100.7	100.4	100.7	100.9	101.1	101.0	4.8	999.4
180°	100.7	100.7	100.7	100.7	100.7	100.7	0.6	1000.0

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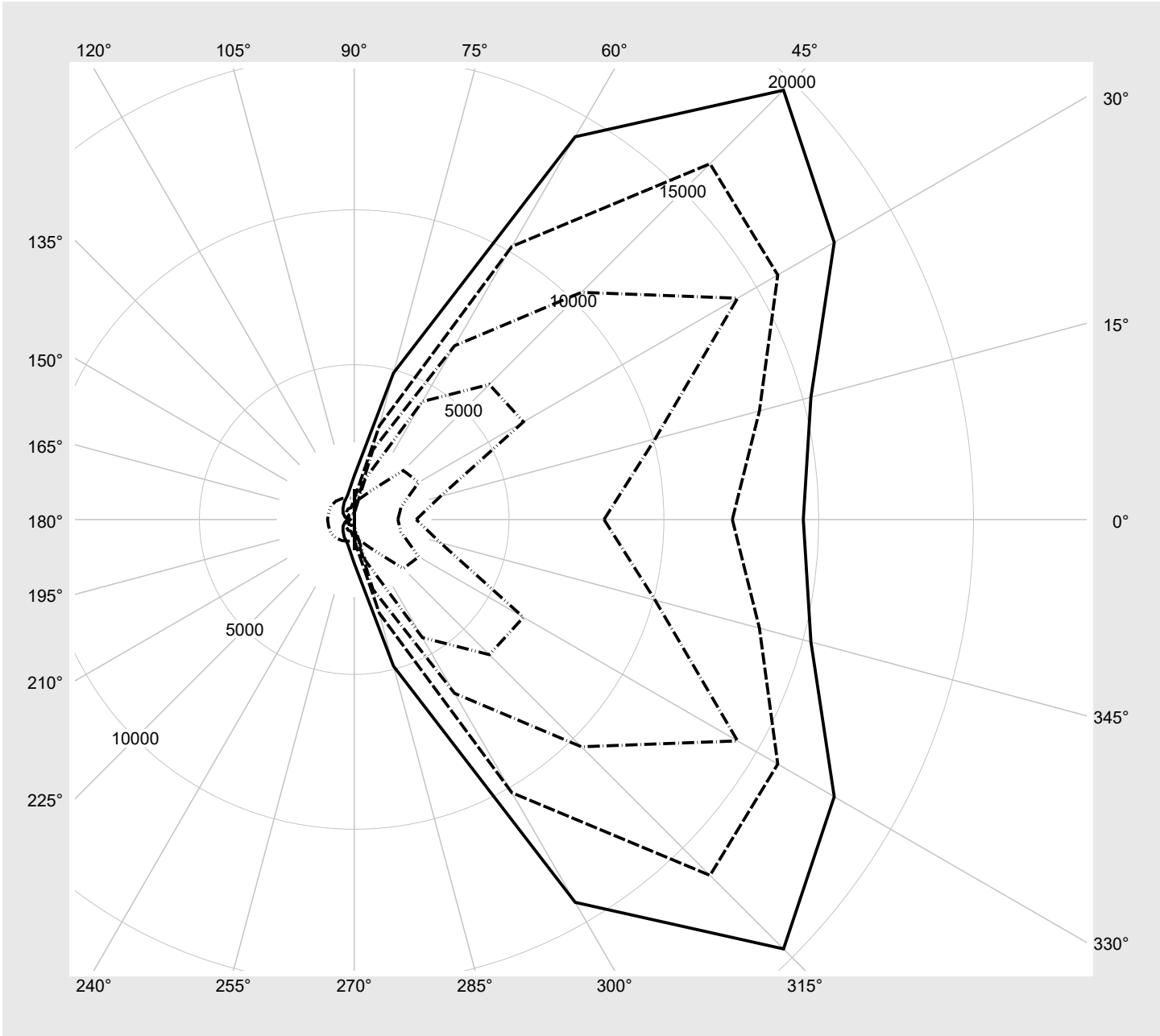
UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	21.9	22.8	22.8	23.7	24.8	17.3	18.2	18.2	19.1	20.2
	3H	22.3	23.1	23.2	24.0	25.1	17.1	17.9	18.0	18.8	20.0
	4H	22.3	23.0	23.2	24.0	25.1	17.0	17.8	17.9	18.7	19.8
	6H	22.2	22.8	23.1	23.8	25.0	16.9	17.5	17.8	18.4	19.6
	8H	22.1	22.7	23.0	23.6	24.8	16.8	17.4	17.7	18.3	19.5
	12H	22.0	22.5	23.0	23.5	24.7	16.7	17.2	17.6	18.2	19.4
4H	2H	22.1	22.8	23.0	23.7	24.9	17.9	18.6	18.8	19.5	20.7
	3H	22.7	23.3	23.6	24.2	25.4	18.0	18.6	18.9	19.5	20.7
	4H	22.9	23.4	23.8	24.4	25.6	17.9	18.4	18.8	19.4	20.6
	6H	22.8	23.2	23.7	24.2	25.4	17.7	18.2	18.7	19.2	20.4
	8H	22.7	23.1	23.7	24.1	25.3	17.7	18.1	18.6	19.0	20.3
	12H	22.6	22.9	23.6	23.9	25.2	17.6	17.9	18.6	18.9	20.2
8H	4H	22.8	23.2	23.8	24.2	25.4	18.0	18.4	19.0	19.4	20.6
	6H	22.8	23.1	23.8	24.1	25.4	17.9	18.2	18.9	19.2	20.5
	8H	22.7	23.0	23.7	24.0	25.3	17.8	18.1	18.8	19.1	20.4
	12H	22.6	22.8	23.6	23.8	25.2	17.7	18.0	18.8	19.0	20.3
12H	4H	22.7	23.1	23.7	24.0	25.3	17.9	18.2	18.9	19.2	20.5
	6H	22.7	23.0	23.7	24.0	25.3	17.8	18.1	18.8	19.1	20.4
	8H	22.6	22.9	23.6	23.9	25.2	17.8	18.0	18.8	19.0	20.3

Luminance table		Max. for $\gamma \geq 65^\circ$											
		Photometric dimensions in mm: L = 1176 B = 49											
C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
γ	Luminance in cd/m ²												
45°	36122.3	37286.2	40013.5	38525.5	31351.8	21206.4	16455.0	11818.3	6268.6	2296.5	1496.2	1160.0	1059.2
50°	27743.2	29406.3	32344.4	31636.2	25205.4	15667.5	11306.1	7696.7	3408.5	1481.8	1088.8	769.6	646.7
55°	21726.2	23088.4	26681.8	26062.6	21035.6	11611.4	7447.4	4773.4	1936.3	1046.5	740.7	457.5	394.1
60°	16656.6	18112.8	21937.6	22346.9	18130.1	7835.5	3721.5	2085.9	1084.8	721.5	500.2	390.3	332.0
65°	14503.2	15269.8	17900.2	19607.7	14273.3	4899.2	1411.3	819.0	646.8	513.2	415.4	307.9	204.4
70°	12211.6	13547.2	15794.3	16249.5	10186.1	3130.4	662.8	395.0	397.2	352.6	291.6	210.5	129.1
75°	8067.6	10060.1	14295.1	10376.1	6477.2	2332.6	304.7	200.5	244.8	233.5	215.3	174.0	140.6
80°	2002.0	2875.9	6310.1	6170.2	4400.4	1356.7	193.4	182.4	215.4	221.2	210.2	182.4	166.3
85°	1409.9	1566.0	2405.3	2240.3	1069.8	697.6	688.9	722.5	785.2	840.7	871.3	855.3	861.1

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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	7330	59.7
95	240	252	6965	56.3
90	226	250	6595	52.9
85	212	247	6223	49.5
80	199	245	5871	46.4
75	185	242	5487	43.1
70	172	240	5126	40.0
65	159	237	4762	37.0
60	146	234	4394	34.1
55	133	230	4021	31.2
50	121	227	3675	28.4
45	108	223	3292	25.4
40	96	218	2937	22.8
35	84	213	2578	19.9
30	71	207	2185	17.3
25	59	201	1819	14.7
20	48	193	1481	12.1
15	36	182	1108	9.5
10	24	168	733	6.9
5	12	142	355	4.2
1	4	102	101	2.5