

Photometric test report

Family
Silica® 21 rectangular



Order number: 51MA33D54LWA
EAN: 4069025638892

LP number
59918_23

Version Suspended luminaire, direct/indirect wide distribution, micro prismatic cover, housing, white, UGR≤16 (L65≤3000cd/m²)

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 6000 lm
Power consumption = 35.6 W
Luminous efficacy = 168.5 lm/W

serial
documentation
05.12.2025

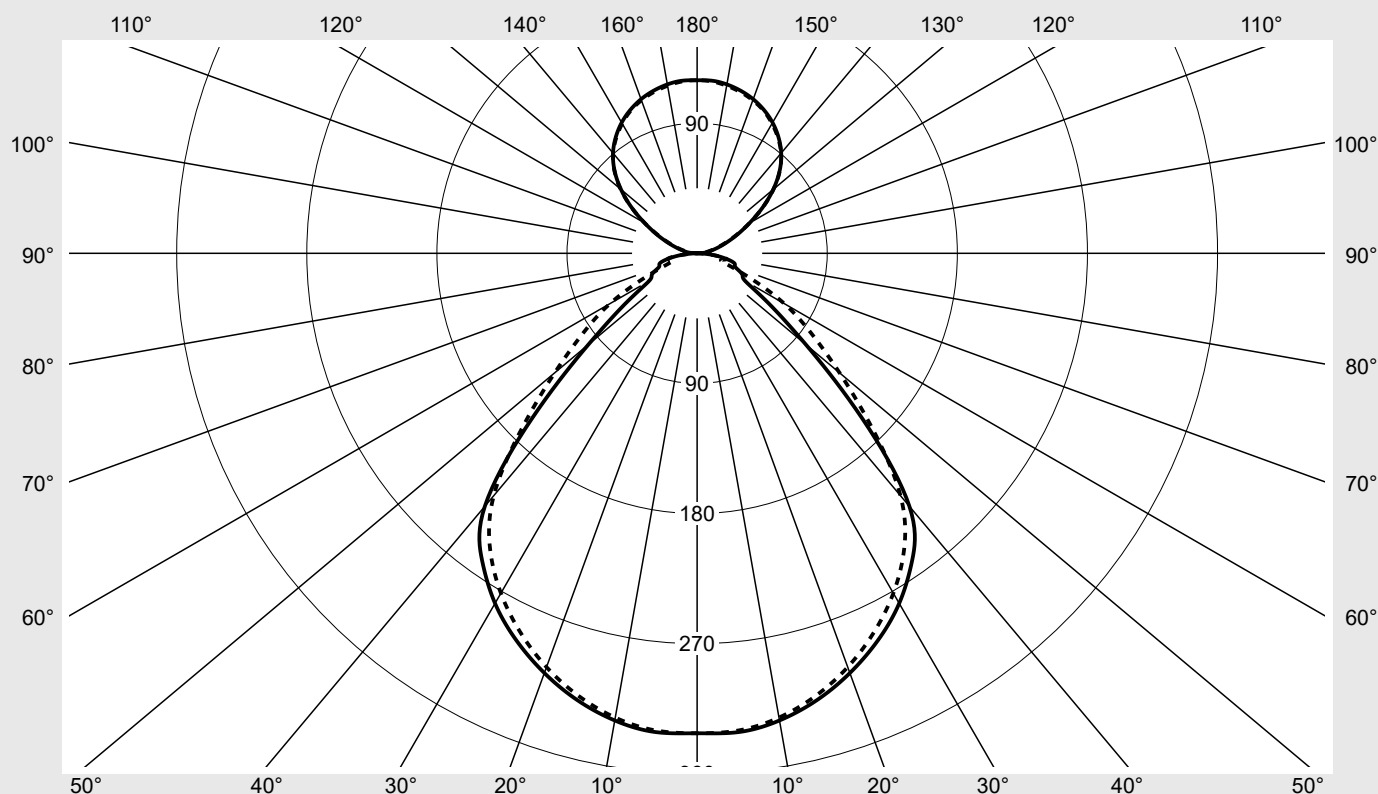
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 332 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=68 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 68.3%
 ϕ_o 31.7%

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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	332.0	332.0	332.0	332.0	332.0	332.0	332.0	2.0	2.0
5°	332.4	330.7	328.8	330.0	331.5	331.3	331.3	15.8	17.8
10°	328.1	326.3	324.2	325.1	326.4	326.1	326.1	31.0	48.8
15°	320.0	318.3	315.9	316.4	317.4	317.1	316.9	45.0	93.8
20°	308.9	307.1	304.5	304.6	305.3	304.7	304.6	57.3	151.1
25°	295.6	293.5	290.2	290.1	290.7	289.9	289.3	67.4	218.5
30°	279.6	277.1	273.2	273.0	274.0	272.5	271.5	75.2	293.7
35°	259.3	257.0	252.3	252.6	253.2	251.7	249.7	79.7	373.4
40°	228.4	228.5	224.3	224.1	220.4	221.4	218.9	78.8	452.2
45°	161.5	171.9	174.4	171.1	156.1	170.7	171.5	65.3	517.5
50°	98.2	112.6	131.5	112.5	97.5	110.8	128.6	47.5	565.0
55°	60.5	69.1	97.9	68.8	59.9	67.3	96.3	33.0	598.0
60°	38.5	46.7	68.8	47.2	38.4	46.1	69.6	23.8	621.9
65°	34.4	39.9	42.5	40.9	35.3	40.9	40.3	19.6	641.5
70°	28.2	34.4	21.8	35.1	28.4	35.1	21.5	15.4	656.9
75°	26.7	24.0	19.1	24.5	27.1	24.4	17.5	12.5	669.4
80°	19.2	14.5	18.9	14.1	19.4	14.8	20.2	9.1	678.5
85°	8.9	8.4	7.1	8.4	8.9	8.6	7.1	4.5	683.0
90°	0.4	0.5	0.4	0.5	0.3	0.4	0.3	0.2	683.2
95°	5.3	5.3	5.3	5.0	4.4	3.9	3.9	2.6	685.8
100°	9.3	9.2	9.3	9.0	8.5	8.2	8.1	4.8	690.6
105°	14.4	14.4	14.3	14.2	13.9	13.6	13.4	7.4	698.0
110°	21.4	21.3	21.2	21.3	21.0	20.7	20.5	10.9	708.9
115°	30.7	30.4	30.4	30.5	30.3	29.9	29.9	15.1	723.9
120°	41.9	41.8	42.0	41.9	42.0	41.7	41.8	19.9	743.8
125°	55.4	54.8	55.2	55.3	55.6	55.1	55.5	24.8	768.6
130°	68.8	68.2	68.6	68.7	68.8	68.5	69.1	28.8	797.4
135°	80.7	80.3	80.3	80.5	80.6	80.5	80.9	31.2	828.6
140°	90.5	90.1	89.7	89.8	90.2	90.3	90.3	31.7	860.3
145°	98.1	97.8	97.1	97.2	97.8	97.8	97.5	30.7	891.0
150°	104.4	104.1	103.2	103.5	104.4	104.0	103.6	28.5	919.5
155°	109.4	109.0	108.2	108.7	109.3	109.1	108.8	25.2	944.7
160°	113.4	113.0	112.1	112.8	113.3	113.0	112.6	21.2	965.9
165°	116.4	116.0	115.1	115.9	116.4	116.3	115.5	16.5	982.3
170°	118.6	118.2	117.2	118.2	118.7	118.2	117.7	11.2	993.6
175°	119.8	119.4	118.4	119.5	119.9	119.4	119.3	5.7	999.3
180°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	0.7	1000.0

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UGR-Table		Standard room							siteco		
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	14.3	15.3	15.0	16.1	17.0	14.1	15.1	14.8	15.9	16.8
	3H	14.8	15.8	15.6	16.6	17.5	14.7	15.6	15.5	16.4	17.4
	4H	15.3	16.2	16.1	17.0	17.9	15.0	15.9	15.8	16.7	17.6
	6H	15.7	16.5	16.5	17.3	18.3	15.4	16.2	16.2	17.0	18.0
	8H	15.9	16.6	16.7	17.4	18.4	15.6	16.3	16.4	17.2	18.2
	12H	16.0	16.7	16.9	17.5	18.6	15.7	16.4	16.6	17.2	18.3
4H	2H	14.4	15.2	15.2	16.0	17.0	14.2	15.1	15.0	15.9	16.9
	3H	15.1	15.9	16.0	16.7	17.7	15.1	15.9	16.0	16.7	17.7
	4H	15.7	16.3	16.5	17.2	18.2	15.6	16.3	16.5	17.1	18.2
	6H	16.2	16.8	17.1	17.7	18.7	16.2	16.8	17.0	17.6	18.7
	8H	16.4	16.9	17.3	17.8	18.9	16.4	16.9	17.3	17.8	18.9
	12H	16.7	17.1	17.5	18.0	19.1	16.6	17.0	17.5	17.9	19.0
8H	4H	15.8	16.3	16.7	17.2	18.3	15.8	16.3	16.7	17.2	18.2
	6H	16.5	16.9	17.4	17.8	18.9	16.5	16.9	17.4	17.8	18.9
	8H	16.9	17.3	17.8	18.1	19.3	16.9	17.3	17.8	18.2	19.3
	12H	17.2	17.5	18.1	18.4	19.5	17.2	17.5	18.1	18.4	19.5
12H	4H	15.9	16.3	16.7	17.2	18.3	15.8	16.3	16.7	17.2	18.3
	6H	16.7	17.0	17.5	17.9	19.0	16.6	17.0	17.5	17.9	19.0
	8H	17.0	17.3	17.9	18.2	19.4	17.0	17.4	18.0	18.3	19.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1484 B = 158	
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°	5846.0	6222.0	6311.8	6190.5	5649.5	6178.3	6207.4
50°	3907.7	4483.0	5234.2	4480.3	3881.8	4411.9	5120.8
55°	2699.2	3083.6	4369.8	3070.1	2674.4	3003.5	4297.3
60°	1972.6	2389.8	3518.7	2416.1	1966.5	2358.5	3560.2
65°	2082.9	2417.9	2576.2	2477.4	2134.9	2478.4	2437.2
70°	2112.9	2575.8	1631.6	2623.9	2124.6	2628.9	1611.8
75°	2638.9	2374.2	1884.4	2425.9	2677.1	2407.7	1727.7
80°	2822.9	2137.5	2789.4	2075.8	2855.6	2178.5	2976.2
85°	2625.4	2455.1	2072.6	2463.1	2610.7	2515.3	2084.0

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Luminance values in cd/m²

γ 65°

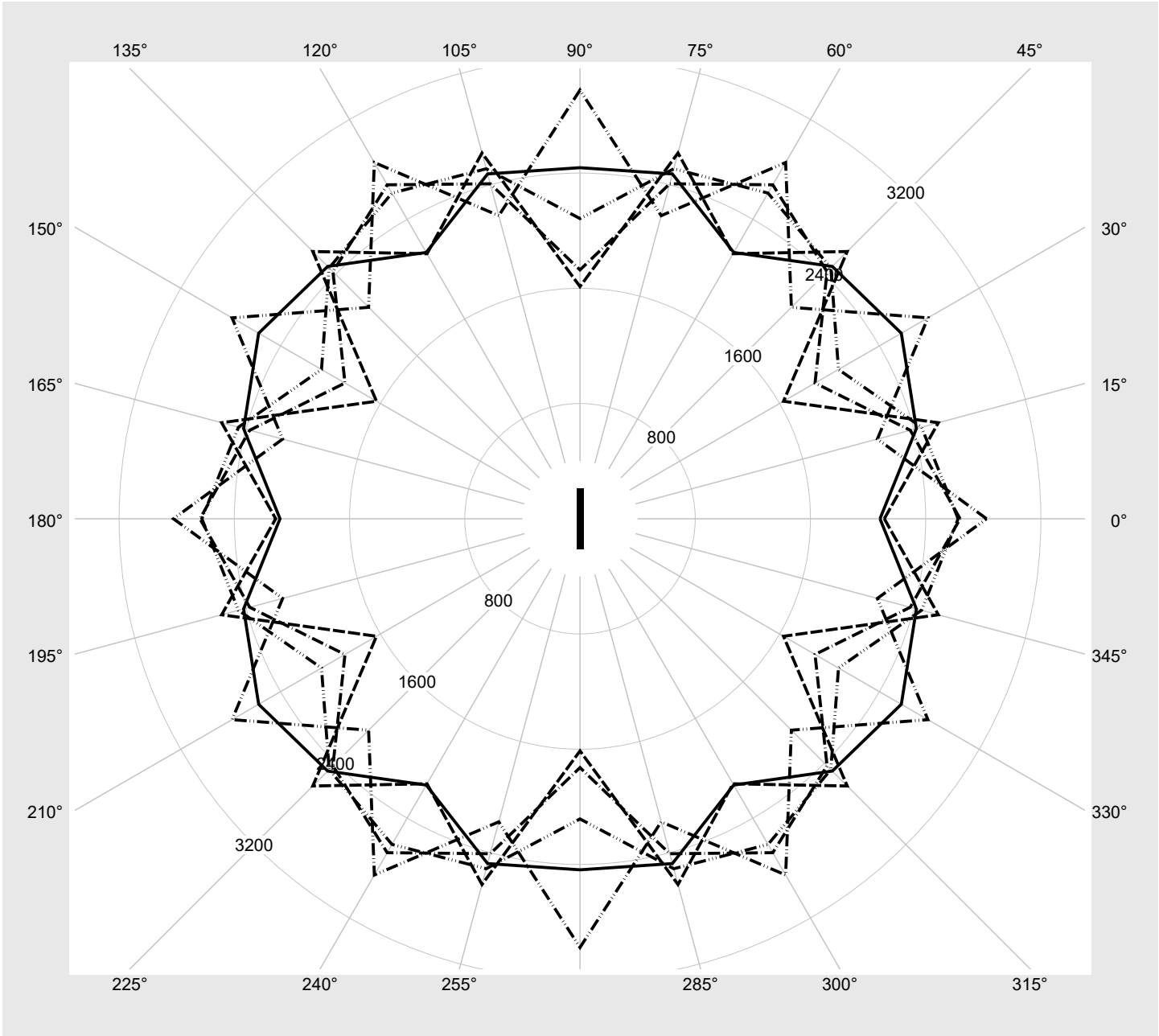
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	6000	35.6
95	240	252	5690	33.6
90	227	250	5402	31.8
85	214	248	5110	29.9
80	200	245	4794	28.0
75	187	243	4498	26.1
70	174	240	4201	24.4
65	161	237	3901	22.7
60	148	234	3598	20.9
55	135	231	3293	19.1
50	123	227	3010	17.5
45	110	223	2702	15.9
40	97	219	2391	14.1
35	85	214	2101	12.6
30	73	208	1808	11.2
25	60	201	1489	9.4
20	48	193	1191	7.9
15	36	182	892	6.0
10	24	168	589	4.4
5	13	145	310	2.9
2	6	117	130	2.0