

Photometric test report

Family
Silica® 21 rectangular

Order number: 51MA33D44LWA
EAN: 4069025638656

LP number
59918_3



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 = 4800 lm
Power consumption = 28.8 W
Luminous efficacy = 166.7 lm/W

serial
documentation
05.12.2025

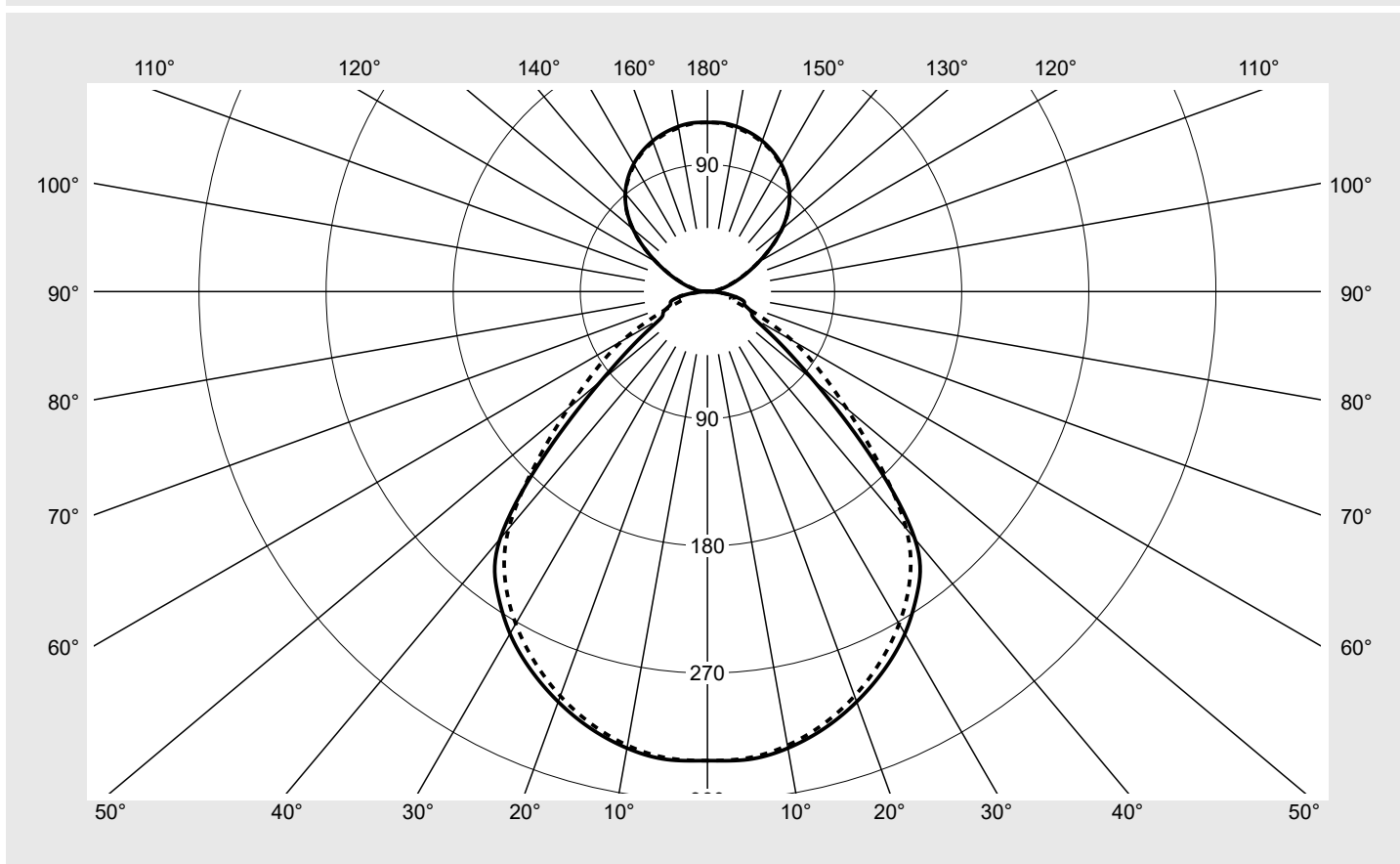
siteco

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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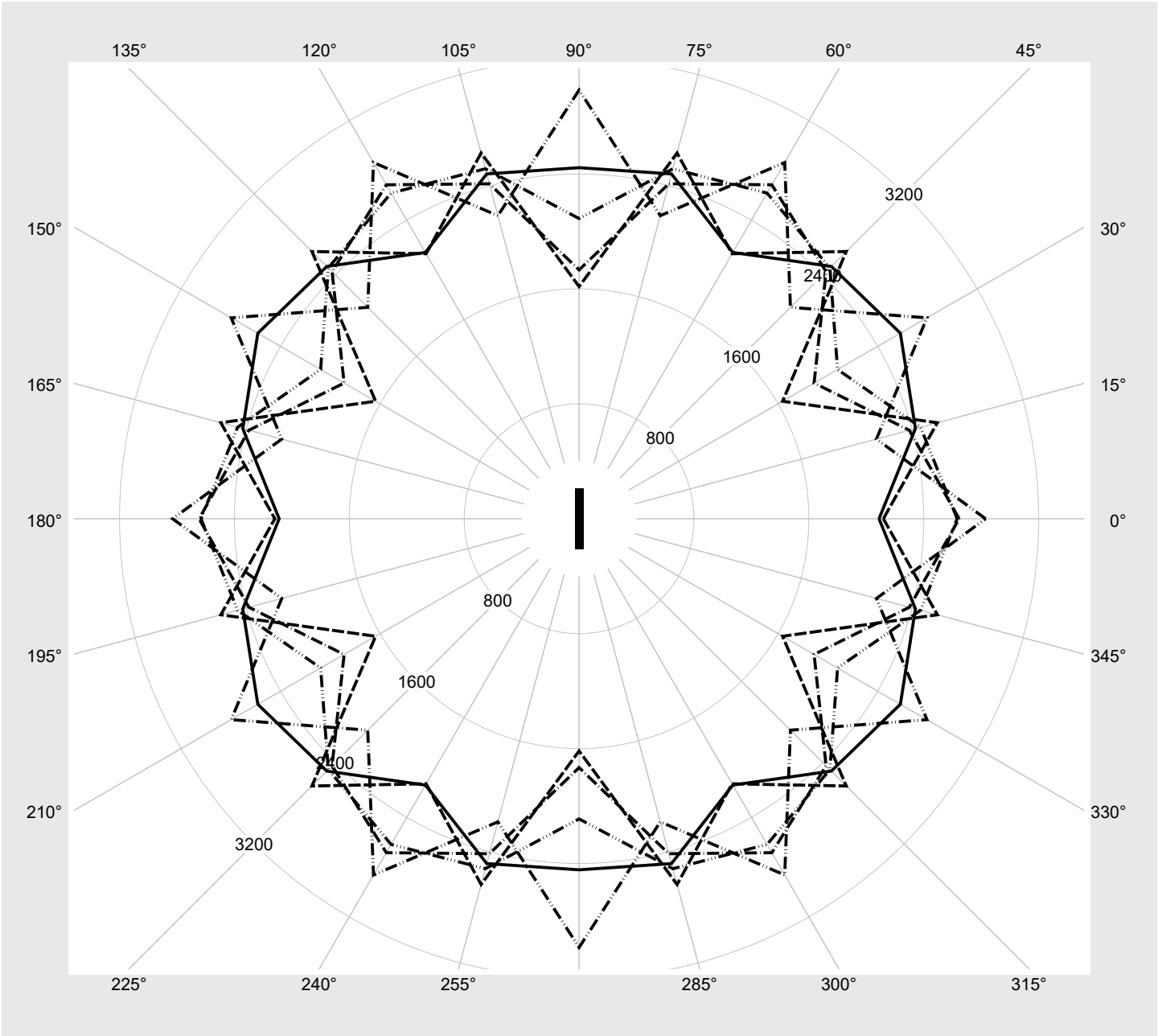
UGR-Table		Standard room							siteco		
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
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	18.0	15.0	15.9	15.8	16.7	17.7
	6H	15.7	16.5	16.6	17.3	18.3	15.4	16.2	16.2	17.0	18.0
	8H	15.9	16.6	16.7	17.4	18.5	15.6	16.3	16.5	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	16.3	16.8	17.1	17.7	18.7	16.2	16.8	17.1	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	18.3
	6H	16.5	17.0	17.4	17.8	19.0	16.5	16.9	17.4	17.8	18.9
	8H	16.9	17.3	17.8	18.2	19.3	16.9	17.3	17.8	18.2	19.3
	12H	17.2	17.5	18.1	18.4	19.6	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	17.6	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	17.1	17.4	18.0	18.3	19.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1184 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°	5861.8	6238.8	6328.8	6207.2	5664.8	6195.0	6224.2
50°	3918.2	4495.1	5248.3	4492.5	3892.3	4423.8	5134.6
55°	2706.5	3091.9	4381.6	3078.4	2681.6	3011.6	4308.9
60°	1977.9	2396.3	3528.2	2422.6	1971.9	2364.8	3569.8
65°	2088.5	2424.5	2583.2	2484.1	2140.6	2485.1	2443.8
70°	2118.6	2582.7	1636.1	2631.0	2130.4	2636.0	1616.2
75°	2646.1	2380.6	1889.5	2432.4	2684.3	2414.2	1732.3
80°	2830.5	2143.3	2797.0	2081.4	2863.3	2184.4	2984.2
85°	2632.5	2461.8	2078.2	2469.7	2617.8	2522.1	2089.6

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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		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4800	28.8
95	240	252	4552	27.1
90	227	250	4321	25.7
85	214	248	4088	24.2
80	200	245	3834	22.6
75	187	243	3598	21.1
70	174	240	3361	19.7
65	161	237	3120	18.3
60	148	234	2878	16.9
55	135	231	2634	15.5
50	123	227	2407	14.2
45	110	223	2161	12.7
40	97	219	1912	11.3
35	85	214	1680	10.0
30	73	208	1446	8.8
25	60	201	1190	7.4
20	48	193	952	6.0
15	36	182	712	4.7
10	24	168	471	3.4
5	13	145	247	2.0
2	6	117	104	1.1