

Photometric test report

Family
Silica® 21 rectangular

Order number: 51MA63D44LWA
EAN: 4069025628237

LP number
59826_134

serial
documentation
13.01.2026

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Version surface-mounted luminaire, direct distribution,
micro prismatic cover, housing, white, UGR≤19
(L65≤3000cd/m²)

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

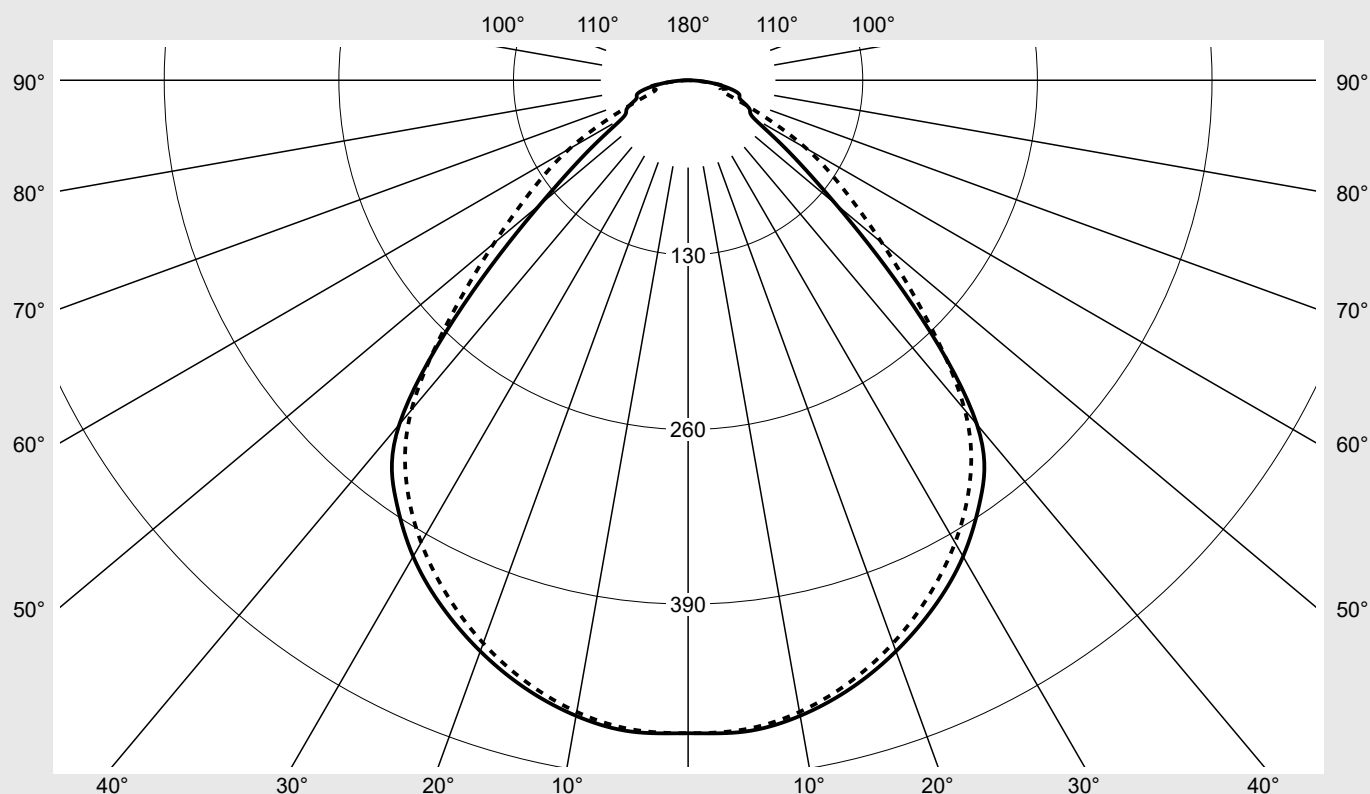
Rated values Net luminous flux = 3280 lm
Power consumption = 20.7 W
Luminous efficacy = 158.5 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 487 cd/klm



Classifications

DIN 5040 A 5 0
CIE N1=64 N2=89 N3=97
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

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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°	486.1	486.1	486.1	486.1	486.1	486.1	486.1	2.9	2.9
5°	486.7	484.1	481.4	483.1	485.4	485.1	485.0	23.1	26.0
10°	480.4	477.8	474.6	475.9	477.9	477.5	477.5	45.4	71.5
15°	468.5	466.0	462.5	463.3	464.8	464.2	464.0	65.9	137.4
20°	452.3	449.7	445.8	446.0	446.9	446.2	446.0	83.9	221.2
25°	432.8	429.8	425.0	424.8	425.7	424.4	423.6	98.8	320.0
30°	409.4	405.7	400.1	399.8	401.2	399.1	397.5	110.0	430.0
35°	379.7	376.2	369.4	369.8	370.7	368.6	365.6	116.7	546.7
40°	334.5	334.6	328.5	328.1	322.7	324.2	320.4	115.4	662.1
45°	236.5	251.7	255.4	250.5	228.6	250.0	251.1	95.6	757.7
50°	143.7	164.9	192.5	164.8	142.8	162.3	188.3	69.5	827.3
55°	88.6	101.2	143.4	100.8	87.8	98.6	141.0	48.4	875.6
60°	56.4	68.4	100.7	69.1	56.3	67.5	101.9	34.9	910.5
65°	50.4	58.5	62.3	59.9	51.6	59.9	58.9	28.7	939.3
70°	41.3	50.4	31.9	51.3	41.6	51.4	31.5	22.6	961.8
75°	39.1	35.2	27.9	35.9	39.6	35.7	25.6	18.2	980.1
80°	28.0	21.2	27.7	20.6	28.4	21.6	29.6	13.4	993.4
85°	13.1	12.2	10.3	12.3	13.0	12.5	10.4	6.6	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

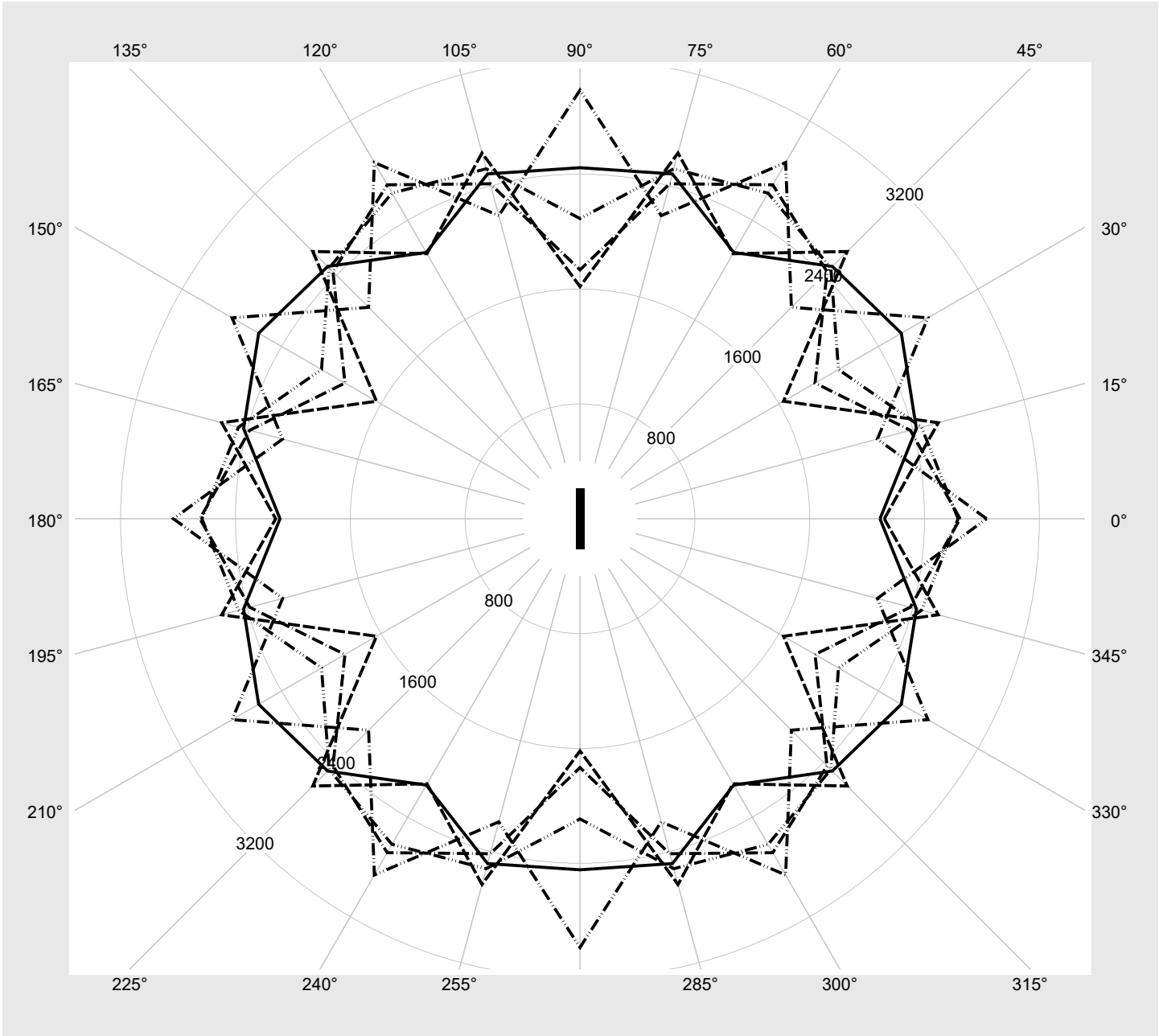
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	16.3	17.9	16.7	18.2	18.5	16.1	17.7	16.5	18.0	18.3
	3H	17.1	18.4	17.5	18.8	19.1	16.9	18.3	17.3	18.6	19.0
	4H	17.5	18.8	17.9	19.1	19.5	17.2	18.5	17.6	18.8	19.2
	6H	18.0	19.2	18.4	19.5	19.9	17.7	18.8	18.1	19.2	19.6
	8H	18.3	19.3	18.7	19.7	20.1	18.0	19.1	18.4	19.4	19.8
	12H	18.4	19.4	18.8	19.8	20.2	18.1	19.1	18.5	19.5	19.9
4H	2H	16.6	17.9	17.0	18.2	18.6	16.5	17.7	16.9	18.1	18.5
	3H	17.4	18.5	17.9	18.9	19.3	17.4	18.5	17.9	18.9	19.3
	4H	18.0	19.0	18.5	19.4	19.8	18.0	18.9	18.4	19.3	19.8
	6H	18.6	19.4	19.1	19.9	20.3	18.6	19.4	19.0	19.8	20.3
	8H	18.9	19.6	19.4	20.1	20.6	18.9	19.6	19.3	20.1	20.5
	12H	19.1	19.8	19.6	20.2	20.7	19.1	19.7	19.5	20.2	20.7
8H	4H	18.3	19.0	18.7	19.5	19.9	18.3	19.0	18.7	19.4	19.9
	6H	19.1	19.7	19.5	20.1	20.6	19.0	19.7	19.5	20.1	20.6
	8H	19.4	19.9	19.9	20.4	20.9	19.4	20.0	19.9	20.4	21.0
	12H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
12H	4H	18.3	19.0	18.8	19.4	19.9	18.3	19.0	18.8	19.4	19.9
	6H	19.1	19.7	19.6	20.2	20.7	19.1	19.6	19.6	20.1	20.7
	8H	19.5	20.0	20.0	20.5	21.0	19.6	20.0	20.1	20.5	21.0

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°	5864.9	6242.1	6332.1	6210.4	5667.7	6198.3	6227.5
50°	3920.3	4497.5	5251.1	4494.8	3894.3	4426.1	5137.3
55°	2707.9	3093.6	4383.9	3080.0	2683.0	3013.2	4311.1
60°	1978.9	2397.6	3530.0	2423.9	1972.9	2366.1	3571.6
65°	2089.6	2425.7	2584.5	2485.4	2141.7	2486.4	2445.1
70°	2119.7	2584.1	1636.9	2632.4	2131.5	2637.4	1617.0
75°	2647.5	2381.9	1890.5	2433.7	2685.7	2415.5	1733.3
80°	2832.1	2144.4	2798.5	2082.5	2864.8	2185.6	2985.8
85°	2633.8	2463.0	2079.1	2471.0	2619.1	2523.3	2090.8

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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	3280	20.7
95	241	252	3121	19.7
90	227	250	2949	18.6
85	214	248	2788	17.6
80	201	245	2627	16.5
75	188	243	2465	15.5
70	174	240	2290	14.4
65	162	238	2137	13.4
60	149	234	1973	12.3
55	136	231	1805	11.4
50	123	227	1638	10.4
45	110	223	1470	9.4
40	98	219	1311	8.5
35	86	214	1154	7.6
30	73	208	981	6.6
25	61	202	821	5.7
20	49	194	659	4.7
15	37	183	497	3.7
10	25	169	333	2.7
5	13	145	167	1.6
5	12	142	153	1.5