

Photometric test report

Family
Silica® 21 rectangular

Order number: 51MA63D54LWA
EAN: 4069025628473

LP number
59826_138

serial
documentation
13.01.2026



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 = 4100 lm
Power consumption = 25.5 W
Luminous efficacy = 160.8 lm/W

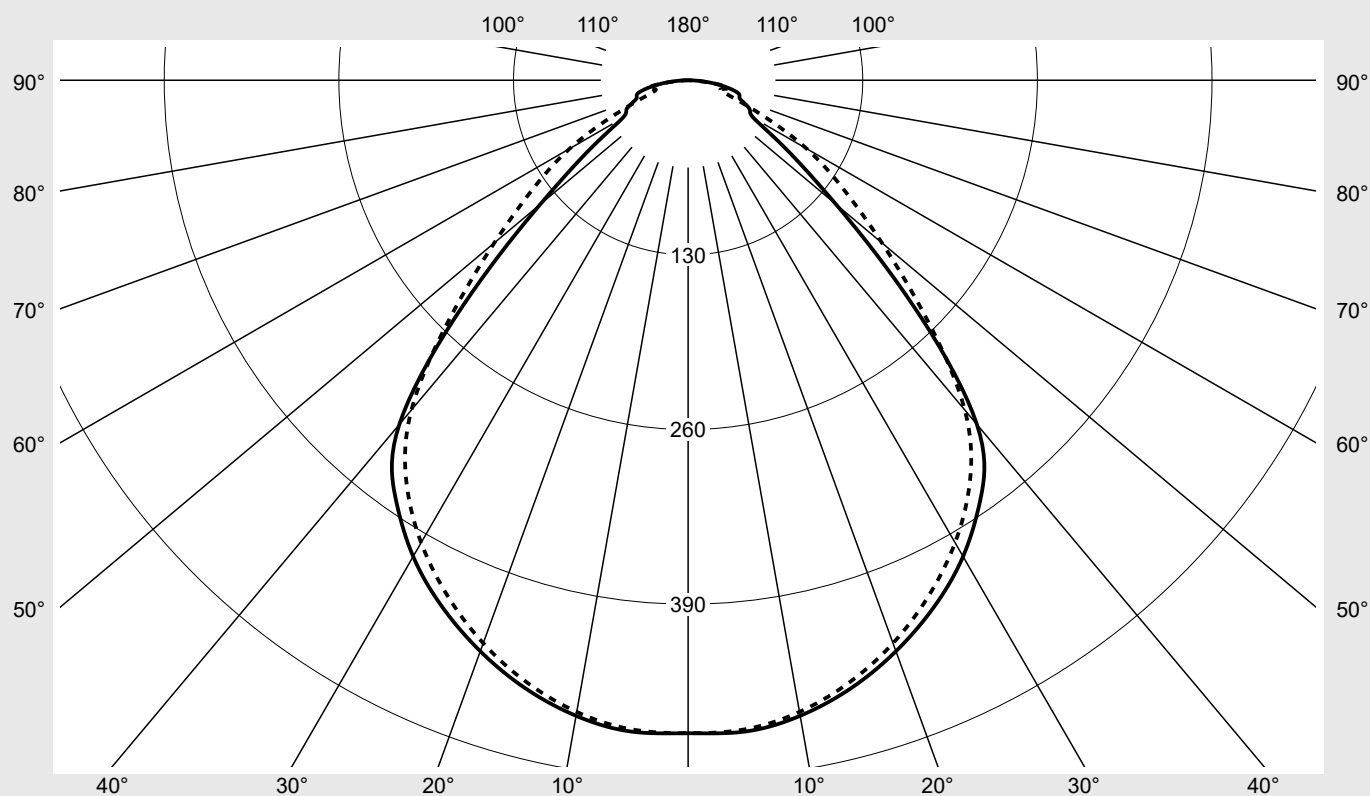
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Luminous intensity in cd/klm

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	17.4	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	19.1	18.4	19.5	19.9	17.7	18.8	18.1	19.2	19.6
	8H	18.2	19.3	18.7	19.7	20.1	18.0	19.0	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	18.4
	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	18.4	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	19.3	20.1	20.5	18.9	19.6	19.3	20.0	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	18.2	19.0	18.7	19.4	19.9
	6H	19.0	19.7	19.5	20.1	20.6	19.0	19.6	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	20.1	20.2	20.6	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	20.1	20.7	19.1	19.6	19.6	20.1	20.6
	8H	19.5	20.0	20.0	20.5	21.0	19.5	20.0	20.1	20.5	21.0

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°	5849.1	6225.2	6315.1	6193.7	5652.5	6181.6	6210.7
50°	3909.7	4485.3	5236.9	4482.7	3883.8	4414.2	5123.5
55°	2700.6	3085.2	4372.1	3071.7	2675.8	3005.0	4299.5
60°	1973.6	2391.1	3520.5	2417.4	1967.6	2359.7	3562.0
65°	2084.0	2419.2	2577.6	2478.7	2136.0	2479.7	2438.5
70°	2114.0	2577.1	1632.5	2625.3	2125.8	2630.3	1612.7
75°	2640.4	2375.4	1885.4	2427.1	2678.5	2409.0	1728.6
80°	2824.5	2138.6	2791.0	2076.9	2857.1	2179.7	2977.8
85°	2626.7	2456.3	2073.5	2464.3	2612.0	2516.5	2085.2

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Luminance values in cd/m²

γ 65°

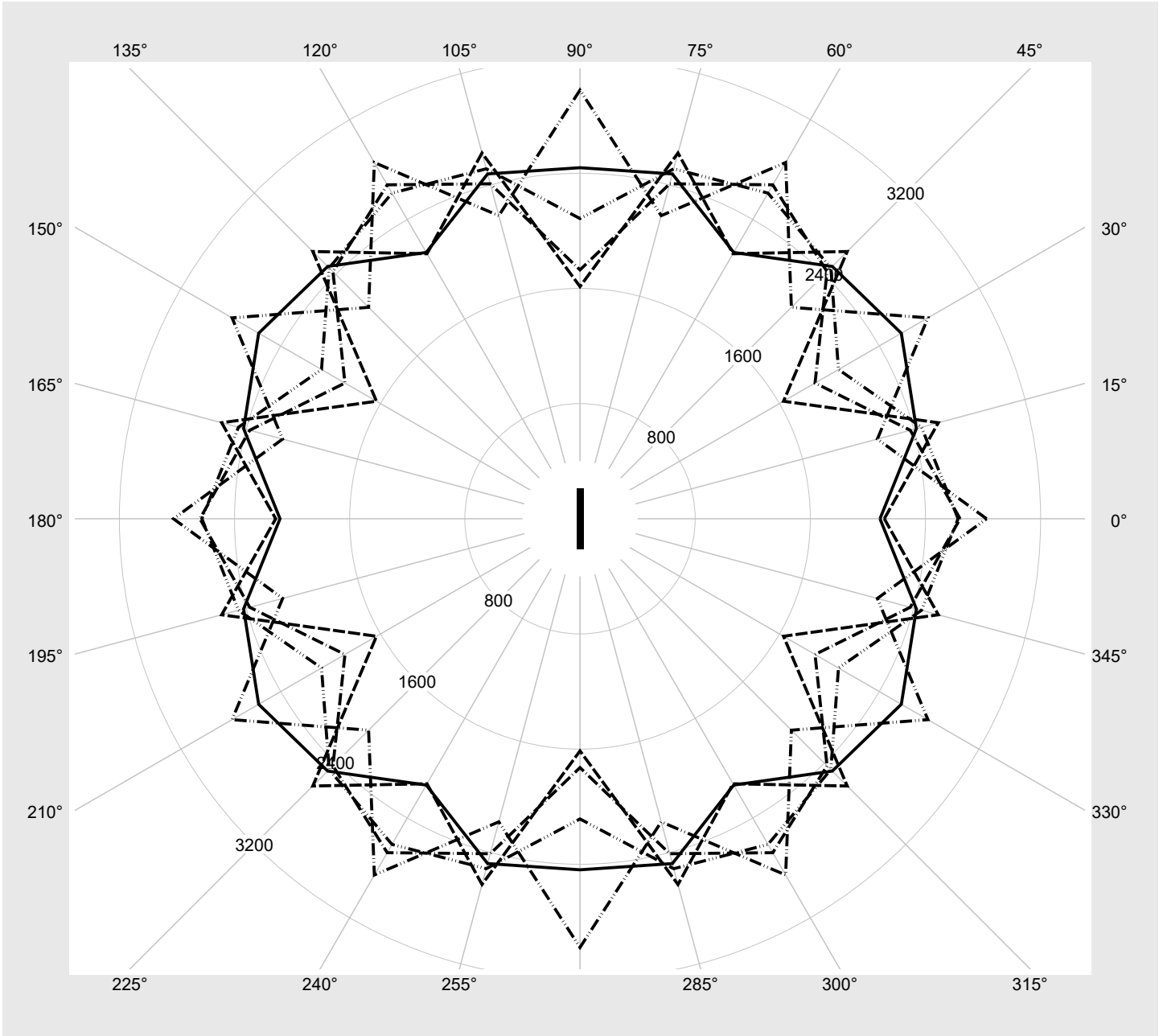
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4100	25.5
95	241	252	3902	24.2
90	227	250	3689	22.9
85	214	248	3487	21.5
80	201	245	3286	20.3
75	187	243	3069	18.9
70	174	240	2865	17.7
65	161	237	2659	16.3
60	148	234	2453	15.0
55	136	231	2259	13.9
50	123	227	2051	12.7
45	110	223	1840	11.4
40	98	219	1643	10.3
35	85	214	1429	9.1
30	73	208	1229	8.0
25	61	202	1029	6.8
20	49	194	826	5.7
15	37	183	622	4.5
10	25	169	417	3.3
5	13	145	209	1.9
5	12	142	192	1.8