

Photometric test report

Family
Silica® 21 rectangular

Order number: 51MA63D74LWA
EAN: 4069025628718

LP number
59826_142

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 = 4400 lm
Power consumption = 27.1 W
Luminous efficacy = 162.4 lm/W

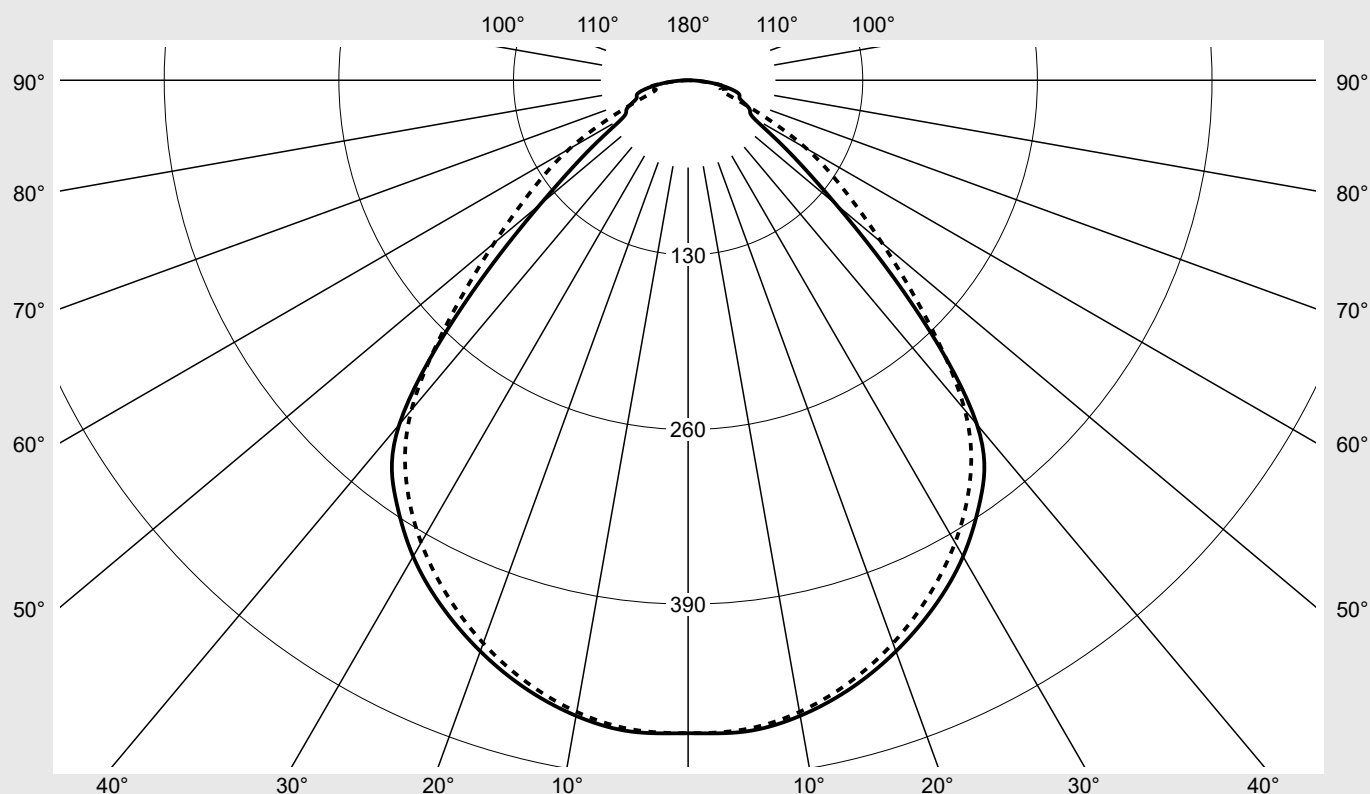
siteco

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	17.8	16.7	18.2	18.5	16.1	17.7	16.5	18.0	18.3
	3H	17.1	18.4	17.4	18.7	19.1	16.9	18.3	17.3	18.6	18.9
	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	17.8	17.0	18.2	18.6	16.4	17.7	16.8	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	18.5	19.4	19.0	19.8	20.3
	8H	18.9	19.6	19.3	20.1	20.5	18.8	19.6	19.3	20.0	20.5
	12H	19.1	19.8	19.6	20.2	20.7	19.0	19.7	19.5	20.2	20.6
8H	4H	18.2	19.0	18.7	19.4	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	19.9	19.9	20.4	20.9
	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	18.9	18.8	19.4	19.9
	6H	19.1	19.6	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	20.0	20.5	21.0

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1184 B = 213	
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°	5836.0	6211.3	6301.0	6179.9	5639.8	6167.8	6196.8
50°	3901.0	4475.3	5225.2	4472.7	3875.1	4404.3	5112.0
55°	2694.5	3078.3	4362.3	3064.9	2669.8	2998.3	4289.9
60°	1969.2	2385.8	3512.6	2412.0	1963.2	2354.4	3554.1
65°	2079.3	2413.8	2571.8	2473.2	2131.2	2474.1	2433.0
70°	2109.2	2571.3	1628.9	2619.4	2121.0	2624.4	1609.1
75°	2634.5	2370.1	1881.2	2421.7	2672.5	2403.6	1724.8
80°	2818.2	2133.9	2784.7	2072.3	2850.7	2174.8	2971.1
85°	2620.8	2450.8	2068.9	2458.8	2606.2	2510.9	2080.5

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Luminance values in cd/m²

γ 65°

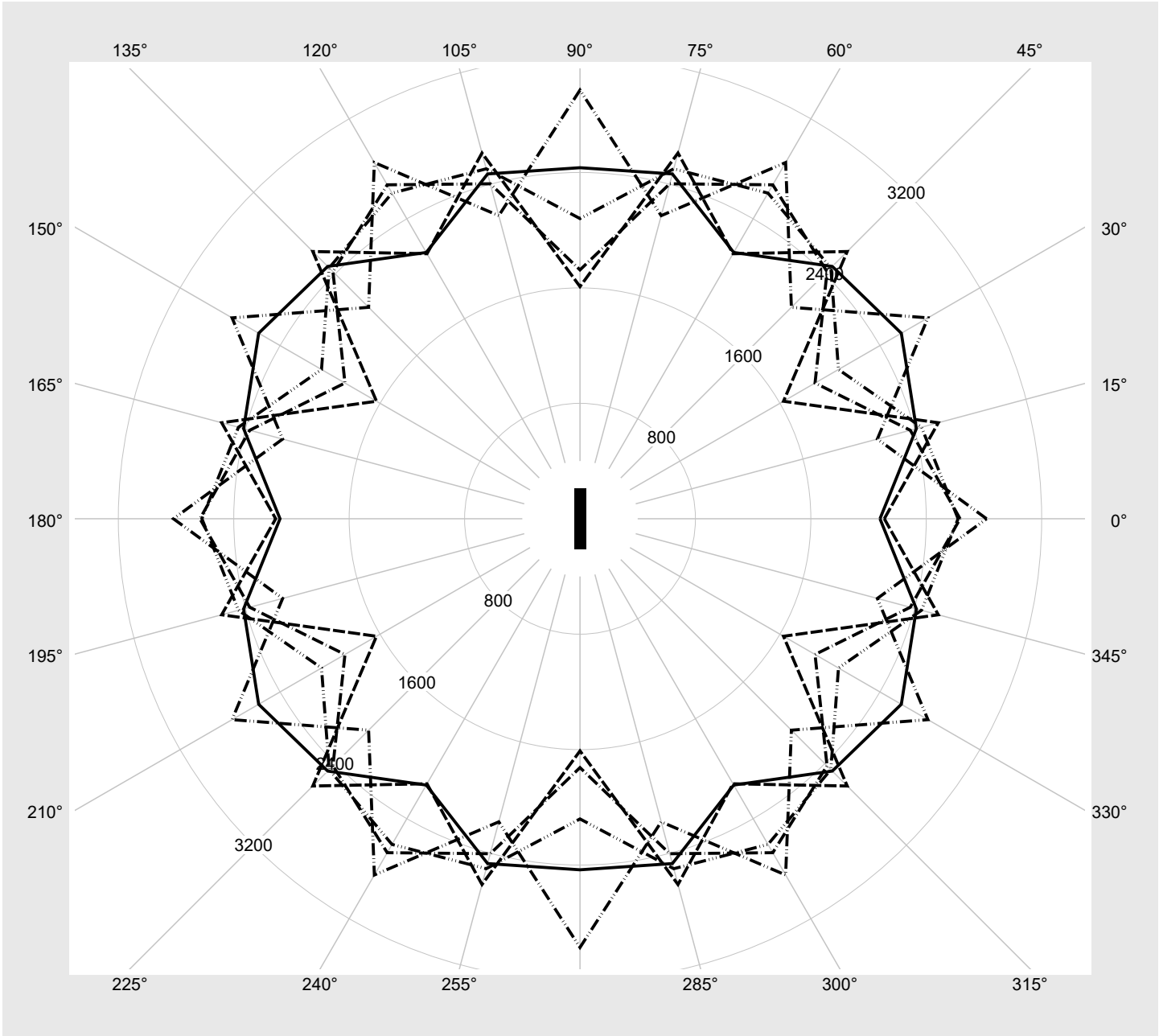
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4400	27.1
95	240	252	4175	25.7
90	227	250	3964	24.4
85	213	248	3735	23.0
80	200	245	3522	21.7
75	187	243	3306	20.3
70	173	240	3072	18.9
65	160	237	2852	17.5
60	148	234	2648	16.3
55	135	231	2426	14.9
50	122	227	2201	13.5
45	109	223	1975	12.1
40	97	219	1764	10.9
35	84	213	1534	9.6
30	72	208	1318	8.4
25	60	201	1102	7.1
20	48	193	884	5.9
15	36	182	663	4.6
10	24	168	440	3.3
5	12	142	214	1.9
4	9	132	157	1.5