

Lichttechnischer Prüfbefund

Familie

Silica® 21 rectangular



Bestell-Nr.: 51MA63D44LWA

EAN: 4069025628237

LP-Nummer

59826_134

Seriendokumentation
13.01.2026

Ausführung

Anbauleuchte, direkt strahlend,
Mikroprismenabdeckung, Gehäuse, weiß,
UGR≤19 (L65≤3000cd/m²)

Bestückung

LED 4000 K | CRI ≥ 80

Betriebsgerät

EVG-DALI

Bemessungswerte

Nettolichtstrom = 3280 lm
Systemleistung = 20.7 W
Lichtausbeute = 158.5 lm/W

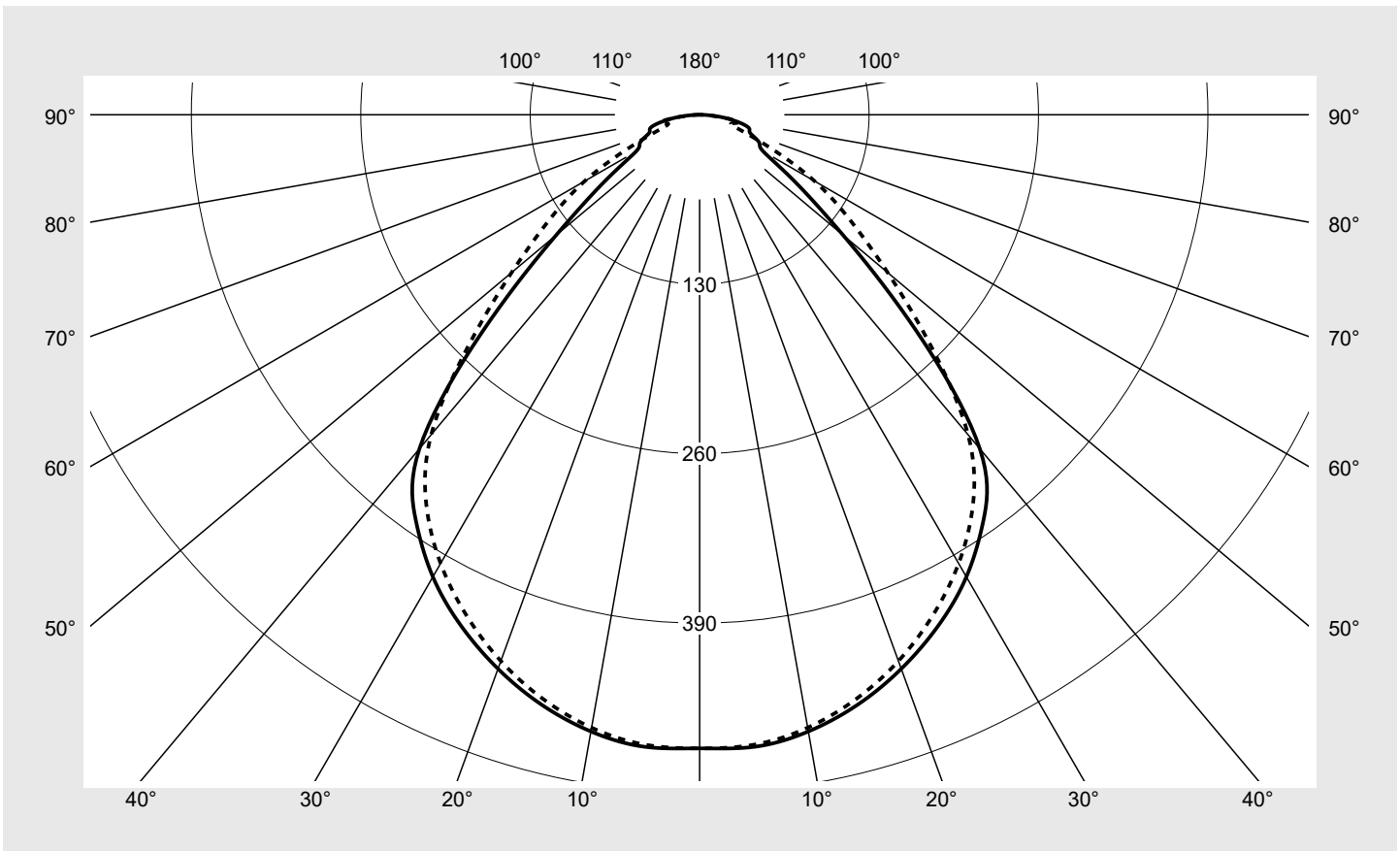
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 487 cd/klm



Klassifizierungen

DIN 5040 A 5 0
CIE N1=64 N2=89 N3=97
N4=100 N5=100

Leuchtenbetriebswirkungsgrade

 η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		sITeco

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
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-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
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

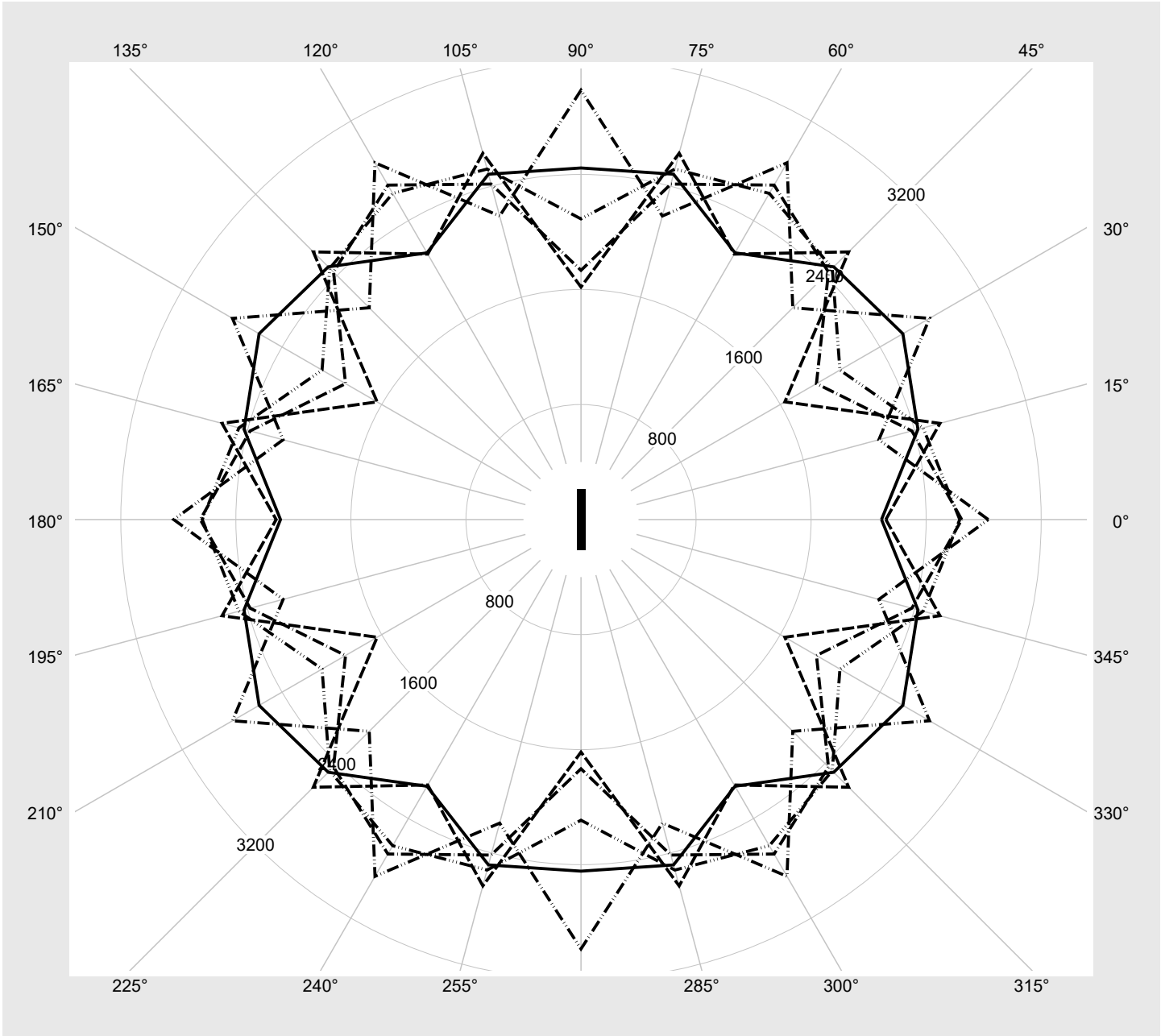
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 1184 B = 158
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C- Ebenen	γ	Leuchtdichte in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
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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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	sITeco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [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