

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX23DA34WB  
EAN: 4058352898918

LP-Nummer  
59330\_237



**Ausführung** Anbauleuchte, homogen leuchtend,  
Prismenabdeckung, direkt strahlend, extrem  
breit strahlend,  $UGR \leq 19$  ( $L65 \leq 3000 \text{cd/m}^2$ )

**Bestückung** LED 3000 K | CRI  $\geq 80$

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 3280 lm  
Systemleistung = 24.1 W  
Lichtausbeute = 136.1 lm/W

Seriendokumentation  
02.08.2023

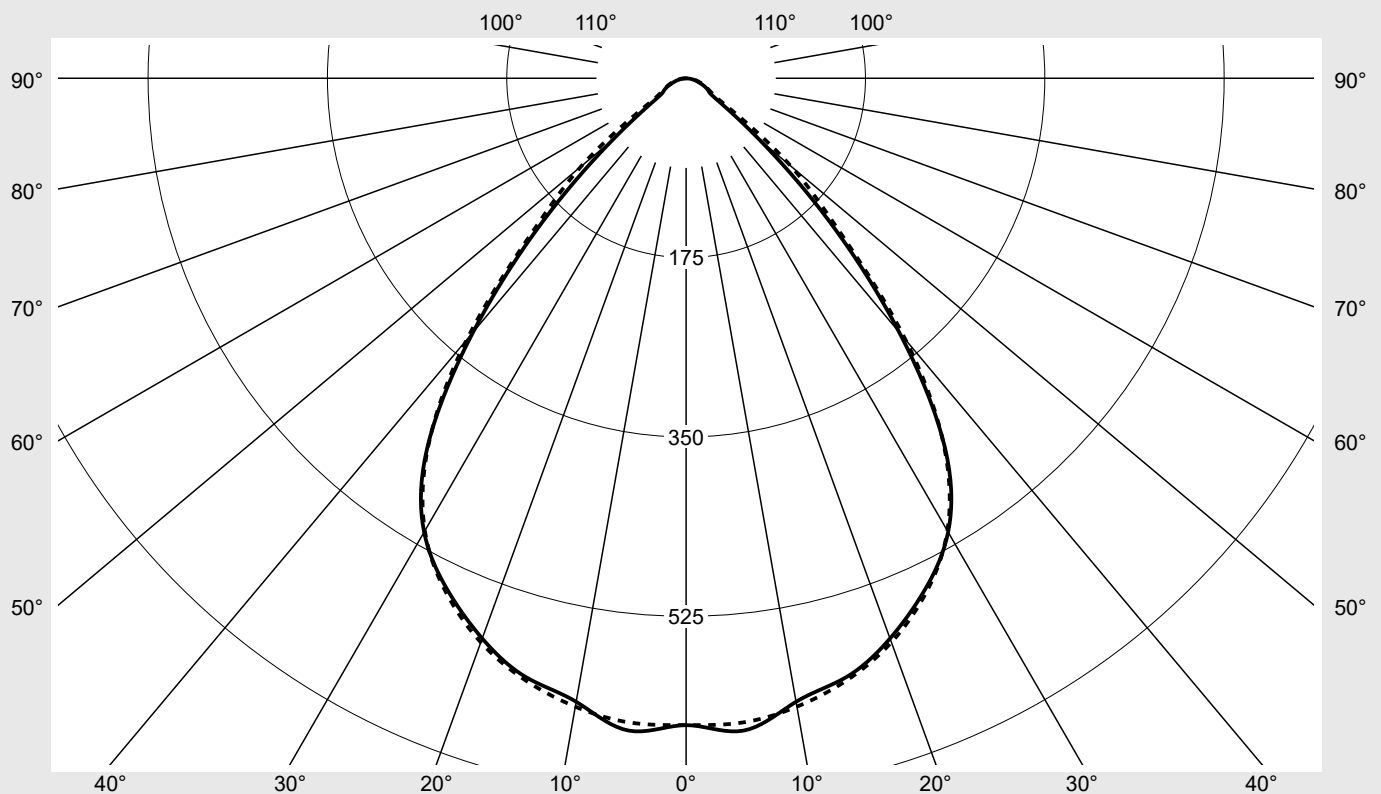
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 642 cd/klm



## Klassifizierungen

DIN 5040 A 6 0  
CIE N1=78 N2=96 N3=99  
N4=100 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

## Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>sITeco</b>

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°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	3.8	3.8
5°	639.0	636.9	635.8	640.8	642.0	634.8	631.1	30.5	34.2
10°	617.8	615.8	612.2	616.7	624.6	629.4	622.7	59.0	93.2
15°	604.8	603.1	597.6	597.0	601.6	607.9	607.8	85.4	178.7
20°	581.7	581.2	575.6	575.6	576.2	579.7	585.7	108.5	287.2
25°	550.9	551.4	546.3	545.8	546.2	547.0	553.9	127.0	414.1
30°	511.3	512.1	506.5	506.8	506.5	506.0	509.9	139.2	553.4
35°	440.5	440.8	437.0	438.8	441.2	438.6	439.0	138.1	691.5
40°	323.4	324.8	326.1	329.4	332.6	332.8	333.0	115.9	807.4
45°	198.4	199.0	200.7	203.5	206.3	209.2	212.1	79.1	886.5
50°	93.9	108.5	122.0	111.2	100.2	119.3	133.6	47.2	933.7
55°	37.7	51.0	48.2	55.0	41.5	57.5	53.4	22.4	956.1
60°	25.5	26.5	28.2	26.2	26.1	27.8	29.0	12.8	968.9
65°	21.0	20.8	21.7	21.1	22.1	22.0	22.3	10.7	979.6
70°	15.2	15.5	16.2	16.1	16.4	16.6	17.4	8.3	987.9
75°	10.6	11.0	12.1	11.5	11.8	12.4	12.4	6.2	994.1
80°	6.4	6.8	7.5	8.1	7.5	8.4	8.5	4.1	998.3
85°	2.4	2.5	2.6	3.2	3.5	4.1	4.3	1.7	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									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	18,4	19,8	18,8	20,1	20,4	18,6	20,0	19,0	20,3	20,6
	3H	18,5	19,7	18,9	20,0	20,4	18,7	19,9	19,1	20,3	20,6
	4H	18,5	19,7	18,9	20,0	20,4	18,8	19,9	19,2	20,3	20,6
	6H	18,6	19,6	19,0	19,9	20,3	18,9	19,9	19,3	20,2	20,6
	8H	18,6	19,5	19,1	19,9	20,3	19,0	19,9	19,4	20,2	20,6
	12H	18,6	19,5	19,1	19,9	20,3	19,0	19,8	19,4	20,2	20,6
4H	2H	18,4	19,5	18,8	19,8	20,2	18,6	19,7	19,0	20,0	20,4
	3H	18,5	19,4	18,9	19,8	20,2	18,7	19,7	19,2	20,0	20,5
	4H	18,6	19,4	19,0	19,8	20,3	18,8	19,7	19,3	20,1	20,5
	6H	18,7	19,4	19,1	19,8	20,3	19,0	19,7	19,4	20,1	20,6
	8H	18,7	19,3	19,2	19,8	20,3	19,0	19,7	19,5	20,1	20,6
	12H	18,7	19,3	19,2	19,7	20,2	19,1	19,7	19,6	20,1	20,6
8H	4H	18,6	19,2	19,1	19,7	20,2	18,8	19,5	19,3	19,9	20,4
	6H	18,7	19,2	19,2	19,7	20,2	19,0	19,5	19,5	20,0	20,5
	8H	18,8	19,2	19,3	19,7	20,2	19,1	19,6	19,6	20,1	20,6
	12H	18,8	19,2	19,3	19,7	20,2	19,2	19,6	19,7	20,1	20,6
12H	4H	18,6	19,1	19,1	19,6	20,1	18,8	19,4	19,3	19,8	20,3
	6H	18,7	19,2	19,3	19,7	20,2	19,0	19,5	19,5	20,0	20,5
	8H	18,8	19,2	19,3	19,7	20,2	19,1	19,5	19,7	20,0	20,6

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

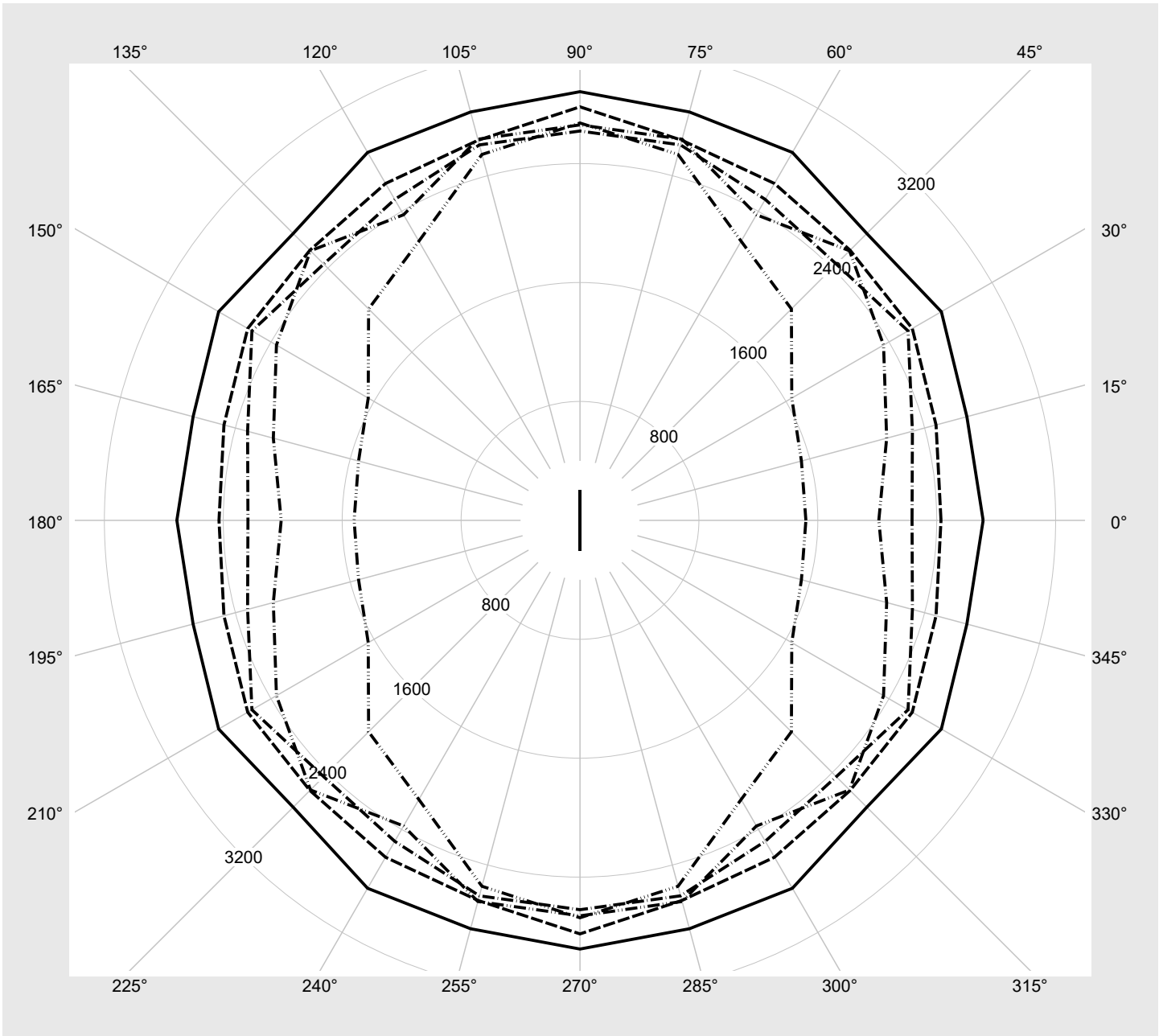
Lichttechnische Abmessungen in mm: **L = 1200**  
**B = 50**

C- Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		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°		15337.1	15386.8	15516.8	15733.4	15947.7	16176.3	16396.2
50°		7985.6	9225.1	10377.4	9461.0	8525.0	10144.7	11360.6
55°		3593.5	4859.8	4595.5	5239.5	3952.2	5476.5	5093.4
60°		2786.7	2901.2	3078.1	2859.1	2851.3	3042.2	3168.5
65°		2712.4	2694.8	2807.3	2728.9	2858.0	2844.2	2883.9
70°		2428.8	2480.0	2581.5	2570.0	2616.8	2647.5	2781.9
75°		2234.0	2315.3	2548.7	2438.7	2493.0	2614.9	2619.3
80°		2010.4	2136.0	2358.3	2564.8	2374.0	2654.5	2660.5
85°		1519.8	1542.4	1645.2	2011.5	2168.3	2548.4	2673.3

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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	3280	24.1
95	241	252	3120	22.8
90	227	250	2948	21.4
85	214	248	2788	20.2
80	201	245	2626	19.0
75	188	243	2463	17.7
70	175	240	2299	16.5
65	162	238	2133	15.3
60	149	234	1967	14.1
55	136	231	1800	12.9
50	124	228	1644	11.8
45	111	224	1475	10.5
40	99	219	1318	9.5
35	86	214	1147	8.4
30	74	209	988	7.3
25	61	202	815	6.2
20	49	194	655	5.1
15	37	183	493	4.1
10	25	169	332	3.1
5	13	145	169	1.8
3	9	132	115	1.3