

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX23DB35WB  
EAN: 4058352905159

LP-Nummer  
59330\_239



**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 = 4100 lm  
Systemleistung = 30.1 W  
Lichtausbeute = 136.2 lm/W

Seriendokumentation  
02.08.2023

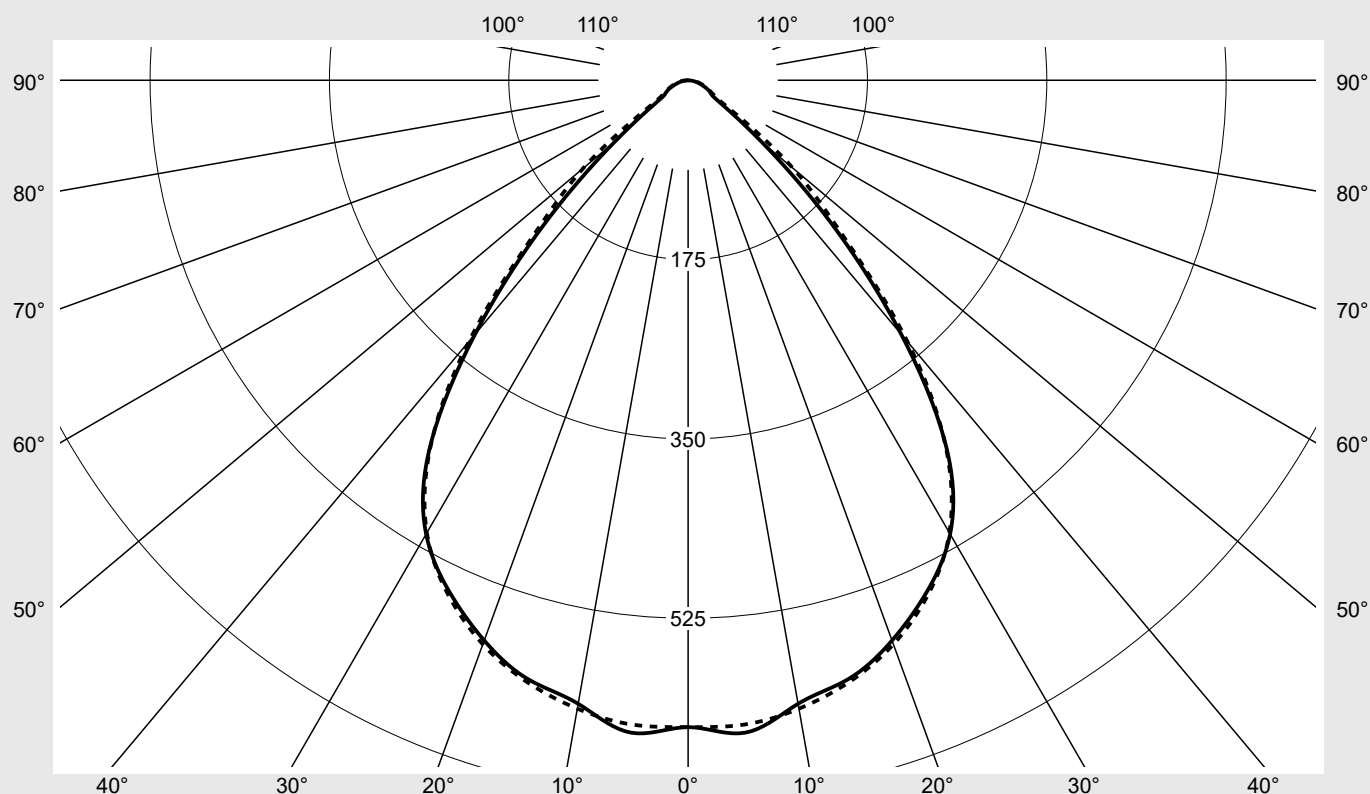
siteco

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									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
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

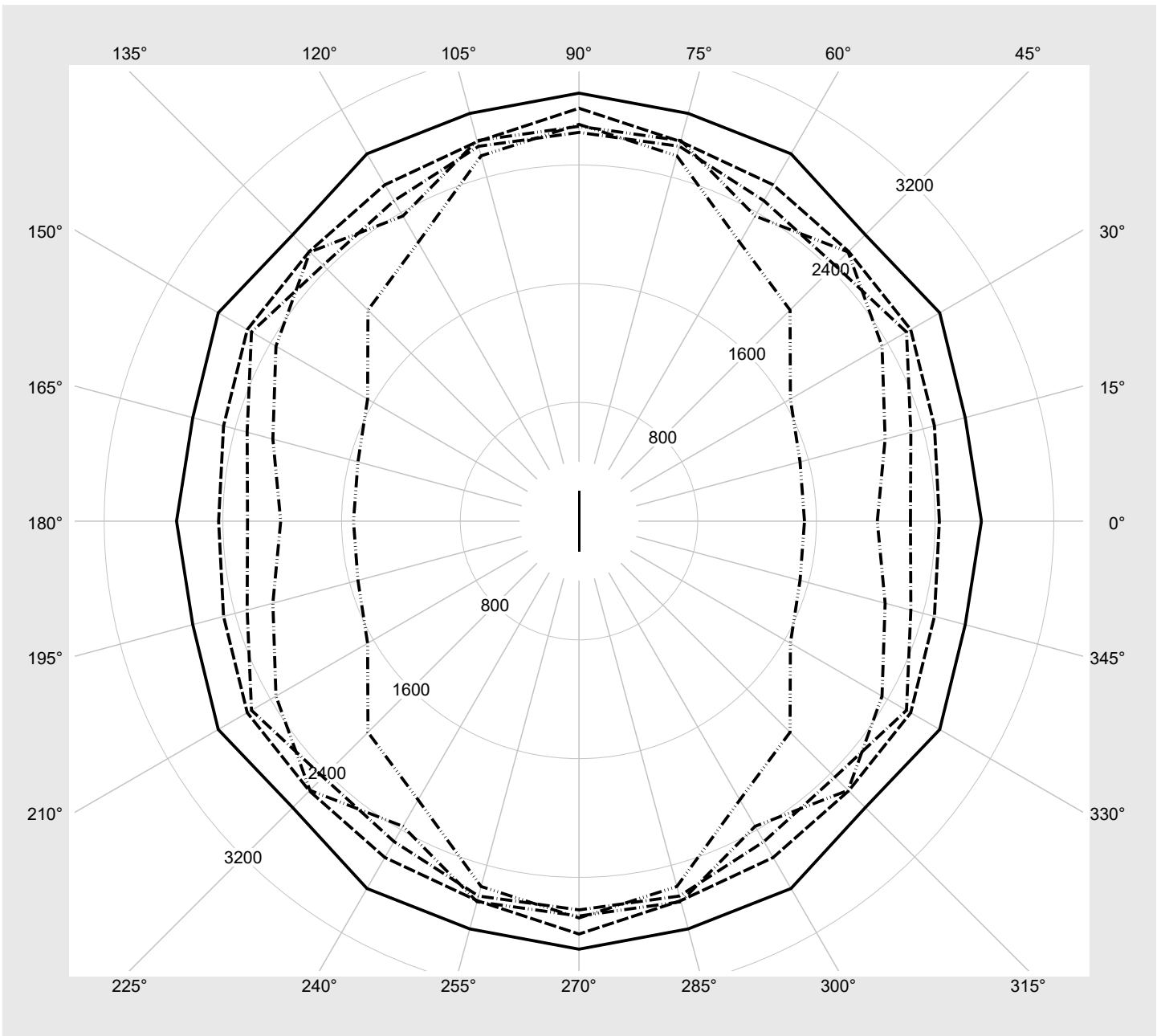
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1500 B = 50
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C- Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 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	4100	30.1
95	241	252	3900	28.5
90	227	250	3685	26.8
85	214	248	3484	25.3
80	201	245	3282	23.7
75	188	243	3078	22.2
70	175	240	2873	20.6
65	162	238	2666	19.1
60	149	234	2458	17.6
55	136	231	2249	16.1
50	124	228	2054	14.7
45	111	224	1843	13.2
40	99	219	1647	11.9
35	86	214	1433	10.4
30	74	209	1235	9.1
25	61	202	1019	7.7
20	49	194	818	6.4
15	37	183	616	5.1
10	25	169	414	3.8
5	13	145	211	2.3
3	9	132	143	1.6