

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX21DC4ASB  
EAN: 4058352900048

LP-Nummer  
59268\_90



**Ausführung** Anbauleuchte, Reflektor, schwarz, direkt strahlend, eng strahlend, UGR≤19 (L65≤3000cd/m<sup>2</sup>)

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte**  
Nettolichtstrom = 10800 lm  
Systemleistung = 64.8 W  
Lichtausbeute = 166.7 lm/W

Seriendokumentation  
02.08.2023

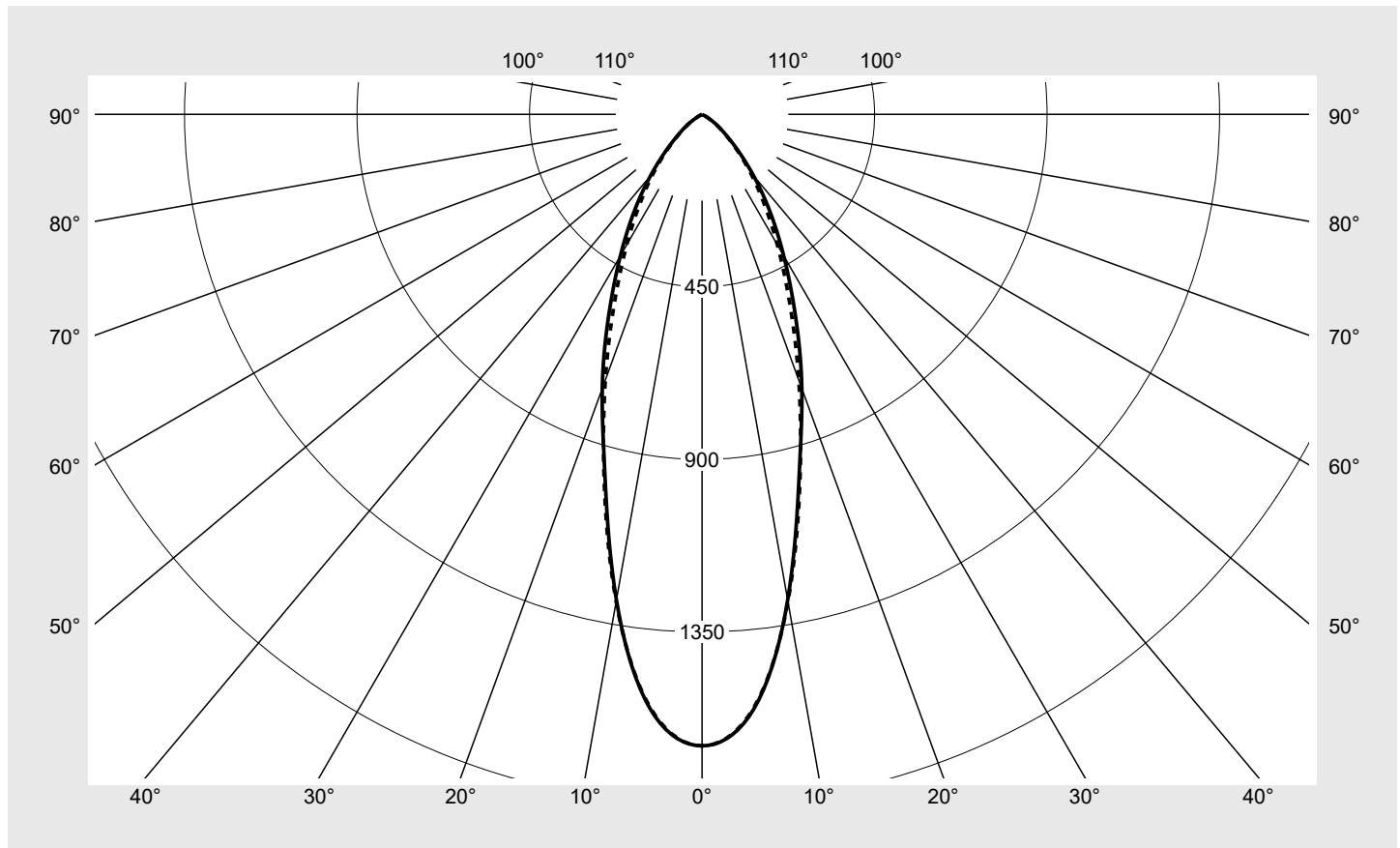
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 1647 cd/klm



#### Klassifizierungen

DIN 5040 A 7 0  
CIE N1=87 N2=99 N3=100  
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°			
γ									
Lichtstärke in cd/klm									
Lichtstrom in lm/klm									
0°	1647.1	1647.1	1647.1	1647.1	1647.1	1647.1	1647.1	9.9	9.9
5°	1556.0	1552.2	1545.4	1552.7	1555.3	1549.6	1552.8	74.1	84.0
10°	1286.3	1288.4	1295.0	1311.1	1307.0	1291.2	1290.4	123.4	207.4
15°	978.4	985.5	998.6	1011.3	1007.8	991.2	986.9	141.3	348.7
20°	761.0	758.1	743.8	731.7	736.2	737.5	737.7	139.2	488.0
25°	575.0	565.5	534.1	513.6	528.8	542.8	539.9	125.2	613.2
30°	426.0	419.2	386.1	366.4	385.1	401.9	392.9	108.2	721.3
35°	308.0	307.0	281.1	264.9	280.7	295.5	280.0	90.3	811.6
40°	209.2	211.1	196.7	188.3	198.2	205.5	193.0	70.5	882.1
45°	130.5	131.9	127.1	124.8	130.2	130.3	123.1	49.8	932.0
50°	76.5	78.3	78.7	78.6	80.6	77.5	73.2	32.8	964.8
55°	42.1	44.0	46.1	47.2	47.6	43.6	40.6	20.2	985.0
60°	13.4	16.3	24.8	26.9	25.6	18.0	14.5	9.9	994.9
65°	4.2	5.2	7.6	13.7	8.3	5.3	4.6	3.7	998.6
70°	1.7	1.8	1.5	2.7	1.9	2.1	2.2	1.0	999.6
75°	0.3	0.5	0.5	0.6	0.6	0.6	0.4	0.3	999.9
80°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	999.9
85°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	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	17,1	18,3	17,5	18,6	18,9	17,0	18,2	17,4	18,5	18,8
	3H	17,0	18,0	17,3	18,4	18,7	16,9	17,9	17,2	18,3	18,6
	4H	16,9	17,9	17,3	18,2	18,6	16,8	17,8	17,2	18,1	18,5
	6H	16,8	17,7	17,3	18,1	18,5	16,7	17,6	17,2	18,0	18,4
	8H	16,9	17,6	17,3	18,0	18,4	16,8	17,5	17,2	17,9	18,3
	12H	16,9	17,5	17,3	17,9	18,3	16,8	17,4	17,2	17,8	18,2
4H	2H	17,0	18,0	17,4	18,4	18,7	16,9	17,9	17,3	18,3	18,6
	3H	16,9	17,7	17,3	18,1	18,5	16,8	17,6	17,2	18,0	18,4
	4H	16,8	17,5	17,2	17,9	18,3	16,7	17,4	17,1	17,8	18,2
	6H	16,7	17,3	17,2	17,7	18,2	16,6	17,2	17,1	17,6	18,1
	8H	16,6	17,2	17,1	17,6	18,1	16,6	17,1	17,0	17,5	18,0
	12H	16,6	17,1	17,1	17,5	18,0	16,5	17,0	17,0	17,4	17,9
8H	4H	16,6	17,2	17,1	17,6	18,1	16,6	17,1	17,0	17,5	18,0
	6H	16,5	17,0	17,0	17,4	18,0	16,4	16,9	16,9	17,3	17,9
	8H	16,5	16,8	17,0	17,3	17,9	16,4	16,8	16,9	17,2	17,8
	12H	16,5	16,7	17,0	17,2	17,8	16,4	16,6	16,9	17,1	17,7
12H	4H	16,6	17,1	17,1	17,5	18,0	16,6	17,0	17,0	17,4	17,9
	6H	16,5	16,8	17,0	17,3	17,9	16,4	16,8	16,9	17,2	17,8
	8H	16,5	16,7	17,0	17,2	17,8	16,4	16,6	16,9	17,1	17,7

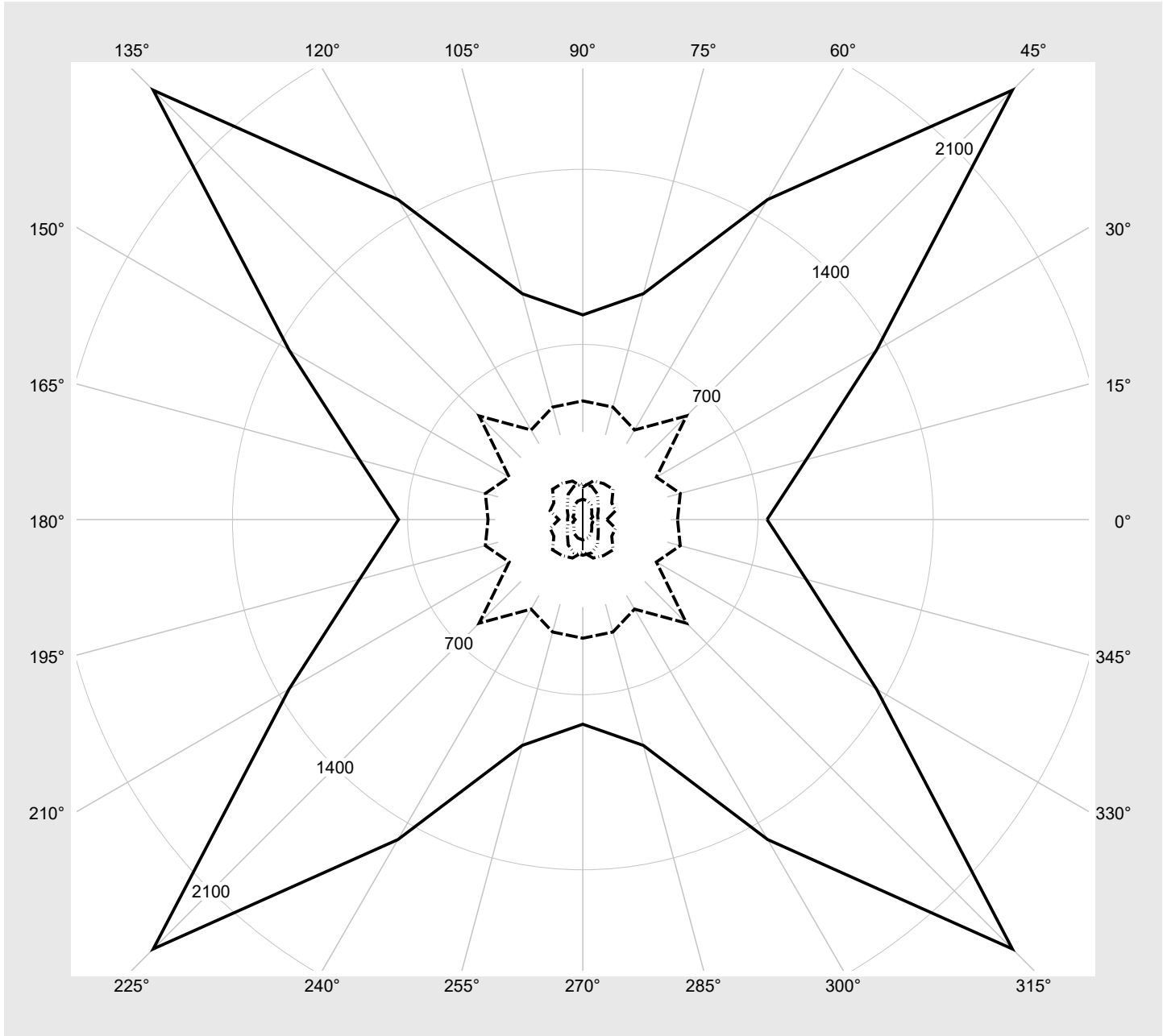
## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

Lichttechnische Abmessungen in mm: L = 2940, B = 49

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°		13837.3	13986.0	13475.6	13233.6	13804.1	13819.2	13053.7
50°		8925.4	9130.3	9184.1	9166.8	9400.7	9037.8	8535.2
55°		5509.0	5751.6	6021.4	6172.9	6227.0	5700.7	5312.7
60°		2003.8	2439.0	3713.1	4029.6	3843.3	2697.1	2177.5
65°		736.4	924.0	1355.3	2427.2	1477.0	934.7	818.1
70°		378.5	403.1	339.5	585.9	413.4	465.3	474.3
75°		95.9	135.3	133.5	171.2	166.3	159.3	130.1
80°		30.7	41.0	41.0	50.9	66.5	76.4	81.6
85°		61.1	61.1	71.4	86.9	117.0	137.6	142.8

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<b>Leuchtdichten in cd/m²</b>		



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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	10800	64.8
95	241	252	10278	61.6
90	227	250	9708	58.1
85	214	248	9179	55.0
80	201	245	8646	51.7
75	188	243	8110	48.5
70	175	240	7571	45.3
65	162	238	7026	42.2
60	149	234	6479	39.1
55	136	231	5926	35.9
50	124	228	5414	33.0
45	111	224	4857	29.9
40	99	219	4340	27.0
35	86	214	3777	23.9
30	74	209	3254	21.1
25	61	202	2686	18.0
20	49	194	2158	15.2
15	37	183	1625	12.2
10	25	169	1093	9.3
5	13	145	558	5.9
3	8	127	335	4.1