

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX22DA34BB  
EAN: 4058352896075

LP-Nummer  
59266\_155



**Ausführung** Anbauleuchte, Reflektor, schwarz, direkt strahlend, breit strahlend, UGR≤19 (L65≤1000cd/m<sup>2</sup>)

**Bestückung** LED 3000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 4320 lm  
Systemleistung = 27.4 W  
Lichtausbeute = 157.7 lm/W

Seriendokumentation  
02.08.2023

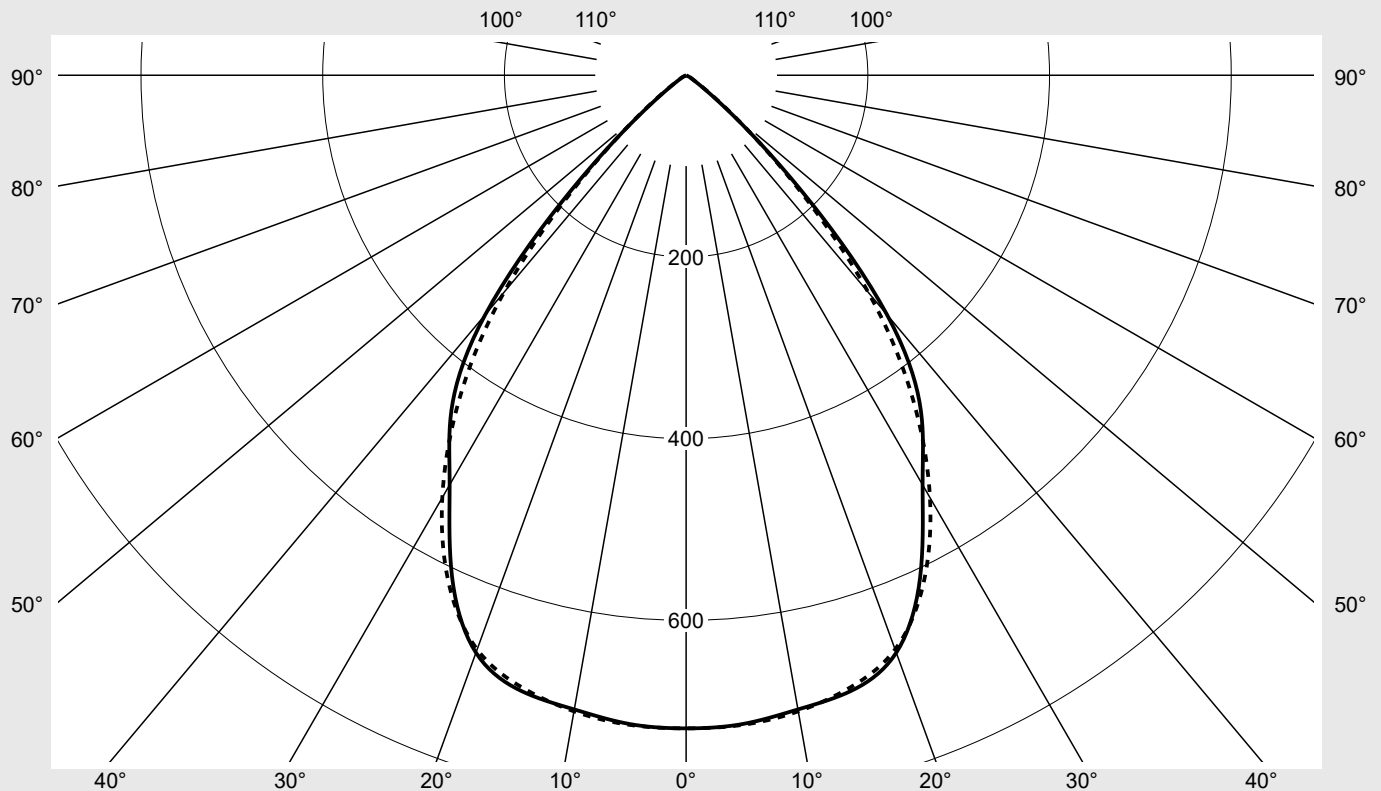
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 719 cd/klm



#### Klassifizierungen

DIN 5040 A 6 0  
CIE N1=86 N2=100 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°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
0°	718.8	718.8	718.8	718.8	718.8	718.8	718.8	4.3	4.3
5°	716.8	715.7	712.2	716.2	717.8	715.2	717.7	34.2	38.5
10°	708.8	709.0	703.3	708.6	709.9	707.6	710.9	67.4	105.9
15°	701.5	704.3	697.3	698.3	698.8	696.7	697.6	99.2	205.1
20°	676.3	682.5	681.1	681.0	677.6	673.2	672.5	127.2	332.2
25°	609.5	618.9	627.5	636.4	634.5	625.9	617.8	145.0	477.3
30°	520.6	528.9	533.1	542.9	550.7	541.7	536.8	147.4	624.6
35°	450.5	455.7	444.2	436.3	445.0	443.0	435.2	139.8	764.4
40°	343.9	350.9	343.2	332.9	329.4	321.5	312.0	117.8	882.2
45°	178.2	185.2	190.8	192.2	186.9	176.3	167.1	71.3	953.5
50°	59.7	64.4	73.8	78.7	75.2	68.1	63.7	29.5	983.0
55°	15.6	18.5	24.7	31.2	26.2	20.2	17.4	10.3	993.3
60°	6.1	6.8	9.1	12.2	9.8	7.7	7.0	4.1	997.4
65°	2.1	2.4	3.4	4.3	3.8	3.0	2.8	1.6	999.0
70°	1.4	1.4	1.0	1.0	1.2	1.5	1.5	0.7	999.7
75°	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.2	999.9
80°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	999.9
85°	0.0	0.0	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									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	19,0	20,3	19,4	20,6	21,0	18,9	20,2	19,2	20,5	20,8
	3H	18,9	20,0	19,3	20,4	20,7	18,7	19,9	19,1	20,2	20,6
	4H	18,8	19,9	19,2	20,2	20,6	18,7	19,7	19,1	20,1	20,4
	6H	18,8	19,7	19,2	20,1	20,5	18,6	19,5	19,0	19,9	20,3
	8H	18,8	19,6	19,2	20,0	20,4	18,6	19,4	19,1	19,8	20,2
	12H	18,8	19,5	19,2	19,9	20,3	18,6	19,4	19,0	19,7	20,2
4H	2H	18,9	19,9	19,3	20,2	20,6	18,7	19,7	19,1	20,1	20,4
	3H	18,7	19,5	19,1	19,9	20,4	18,5	19,4	19,0	19,8	20,2
	4H	18,6	19,4	19,1	19,8	20,2	18,4	19,2	18,9	19,6	20,0
	6H	18,5	19,2	19,0	19,6	20,1	18,4	19,0	18,8	19,4	19,9
	8H	18,5	19,1	19,0	19,5	20,0	18,3	18,9	18,8	19,3	19,8
	12H	18,5	19,0	19,0	19,4	19,9	18,3	18,8	18,8	19,2	19,7
8H	4H	18,5	19,1	19,0	19,5	20,0	18,3	18,9	18,8	19,3	19,8
	6H	18,4	18,8	18,9	19,3	19,8	18,2	18,7	18,7	19,2	19,7
	8H	18,3	18,7	18,8	19,2	19,8	18,2	18,6	18,7	19,1	19,6
	12H	18,3	18,6	18,8	19,1	19,7	18,1	18,5	18,7	19,0	19,5
12H	4H	18,5	19,0	19,0	19,4	19,9	18,3	18,8	18,8	19,2	19,7
	6H	18,4	18,7	18,9	19,2	19,8	18,2	18,6	18,7	19,1	19,6
	8H	18,3	18,6	18,8	19,1	19,7	18,1	18,5	18,7	19,0	19,5

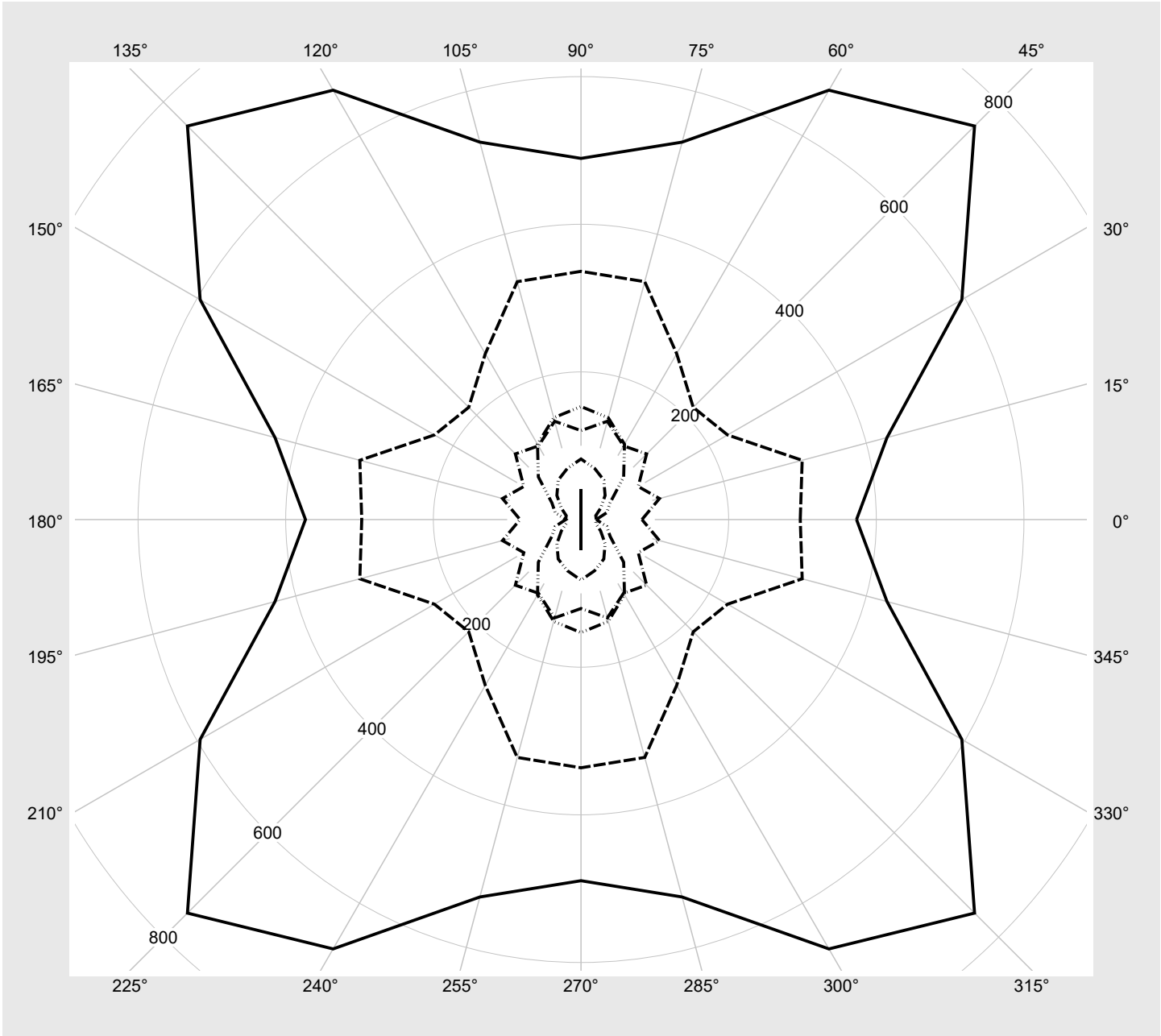
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1176 B = 49
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		18893.8	19639.4	20224.8	20378.7	19816.4	18686.5	17719.1
50°		6967.4	7515.8	8602.9	9174.9	8765.7	7944.9	7434.7
55°		2040.2	2416.2	3223.4	4082.0	3422.4	2643.9	2274.9
60°		914.5	1022.3	1370.7	1828.8	1475.1	1154.2	1044.6
65°		373.2	429.1	595.7	753.9	671.6	529.3	489.2
70°		297.0	310.2	229.3	215.0	259.3	333.6	336.2
75°		82.6	110.1	89.5	125.7	115.3	137.9	120.5
80°		20.7	20.7	30.7	46.2	61.7	71.7	82.0
85°		20.6	36.1	45.6	81.7	117.8	142.8	153.1

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**Leuchtdichten in cd/m²**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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<b>Dimmstufen-Tabelle</b>		<b>Umgebungstemperatur: 25°C</b>
<b>sITeco</b>		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	4320	27.4
95	240	252	4098	25.9
90	227	250	3889	24.5
85	214	248	3678	23.0
80	200	245	3449	21.5
75	187	243	3236	20.1
70	174	240	3021	18.7
65	161	237	2805	17.2
60	148	234	2585	15.9
55	136	231	2382	14.6
50	123	227	2160	13.3
45	110	223	1937	11.9
40	98	219	1730	10.6
35	86	214	1521	9.4
30	73	208	1293	8.1
25	61	202	1083	6.9
20	49	194	870	5.8
15	37	183	655	4.5
10	24	168	423	3.3
5	12	142	207	1.9
3	8	127	135	1.3