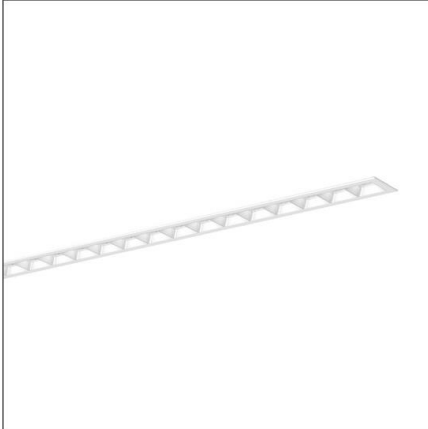


## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX16DC4AWB  
EAN: 4058352907665

LP-Nummer  
59267\_154



**Ausführung** Einbauleuchte, Reflektor, weiß, direkt strahlend, breit strahlend, UGR≤19 (L65≤3000cd/m<sup>2</sup>)

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 10800 lm  
Systemleistung = 60.6 W  
Lichtausbeute = 178.2 lm/W

Seriendokumentation  
02.08.2023

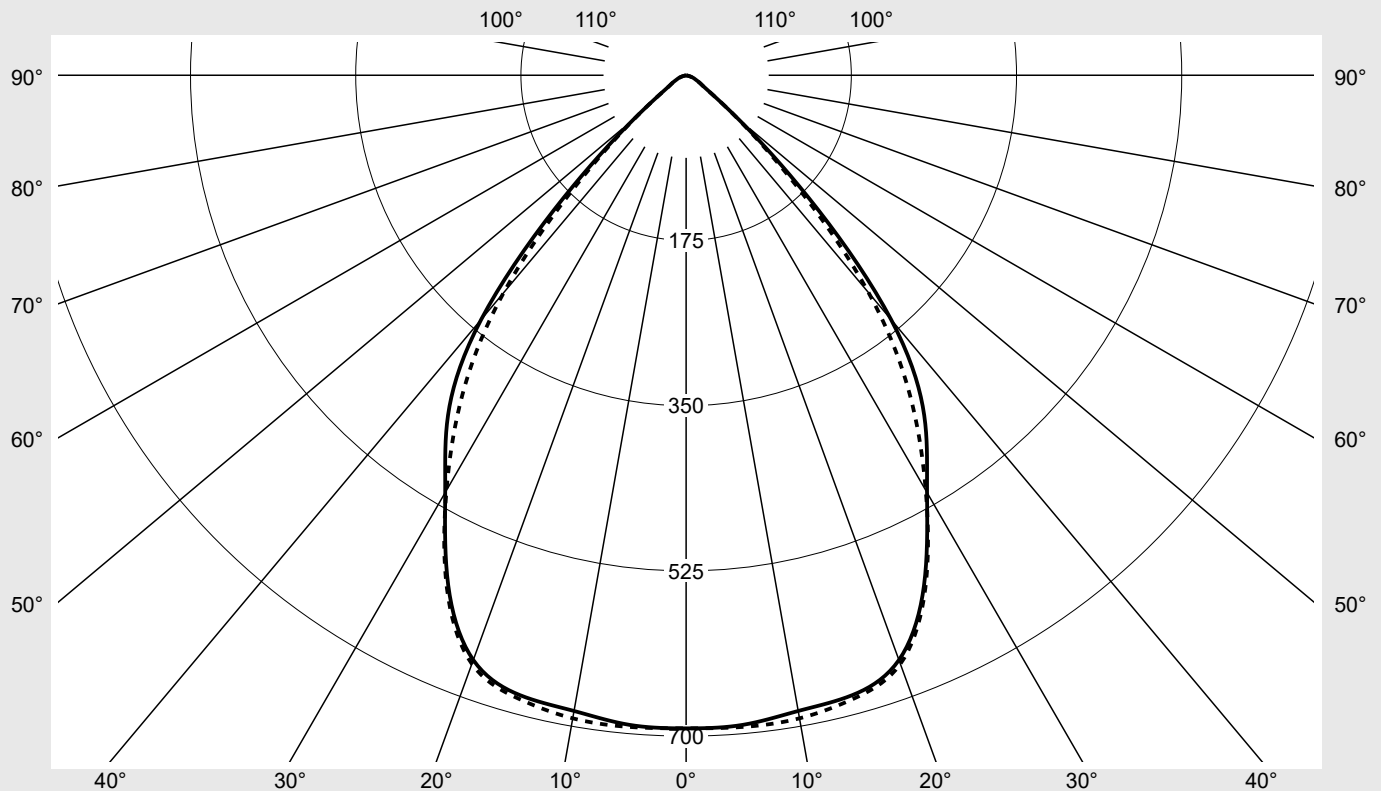
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 693 cd/klm



## Klassifizierungen

DIN 5040 A 6 0  
CIE N1=83 N2=98 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

## Lichttechnischer Prüfbefund

<b>Familie</b> <b>Silica® 21</b>	<b>Bestell-Nr.: 51MX16DC4AWB</b> <b>EAN: 4058352907665</b>	<b>LP-Nummer</b> <b>59267_154</b>
<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°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	4.1	4.1
5°	690.7	689.7	686.1	690.3	692.9	690.5	692.9	33.0	37.1
10°	683.8	683.7	680.0	686.1	689.1	688.2	691.7	65.3	102.4
15°	679.8	682.8	679.6	683.5	685.2	682.6	683.9	96.8	199.2
20°	659.2	666.3	668.8	670.3	667.9	663.4	663.6	124.9	324.1
25°	596.3	606.7	617.7	624.9	617.5	607.1	599.6	141.8	465.9
30°	510.4	519.4	522.0	521.4	520.1	511.7	507.7	141.8	607.7
35°	439.7	447.6	431.3	414.6	422.9	421.6	413.2	134.4	742.1
40°	337.7	347.1	337.5	327.0	327.2	315.0	300.9	115.9	857.9
45°	183.5	191.6	192.8	192.4	185.5	172.4	164.1	71.6	929.5
50°	72.2	76.5	81.6	85.0	79.2	72.7	70.3	32.6	962.2
55°	28.9	31.6	36.0	41.5	36.6	30.9	28.5	15.4	977.5
60°	17.8	18.8	20.5	22.6	20.4	18.4	17.4	9.4	986.9
65°	11.5	12.0	12.6	12.8	12.4	11.7	11.3	6.0	992.9
70°	7.8	8.1	7.5	7.2	7.4	7.8	7.7	3.9	996.9
75°	3.2	3.4	3.7	3.8	3.8	3.6	3.3	1.9	998.8
80°	1.5	1.5	1.5	1.6	1.6	1.6	1.6	0.8	999.6
85°	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.4	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

## Lichttechnischer Prüfbefund

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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	19,2	20,5	19,5	20,8	21,1	18,8	20,1	19,2	20,4	20,8
	3H	19,1	20,2	19,5	20,6	20,9	18,7	19,9	19,1	20,2	20,6
	4H	19,0	20,1	19,4	20,4	20,8	18,7	19,8	19,1	20,1	20,5
	6H	19,0	19,9	19,4	20,3	20,7	18,6	19,6	19,1	20,0	20,4
	8H	19,0	19,9	19,5	20,2	20,6	18,7	19,5	19,1	19,9	20,3
	12H	19,0	19,8	19,4	20,2	20,6	18,7	19,4	19,1	19,8	20,2
4H	2H	19,0	20,1	19,4	20,4	20,8	18,7	19,7	19,1	20,1	20,5
	3H	19,0	19,8	19,4	20,2	20,6	18,6	19,5	19,1	19,9	20,3
	4H	18,9	19,7	19,3	20,1	20,5	18,6	19,3	19,0	19,8	20,2
	6H	18,8	19,5	19,3	19,9	20,4	18,5	19,2	19,0	19,6	20,1
	8H	18,8	19,4	19,3	19,8	20,3	18,5	19,1	18,9	19,5	20,0
	12H	18,8	19,3	19,3	19,7	20,2	18,5	19,0	19,0	19,4	19,9
8H	4H	18,8	19,4	19,3	19,8	20,3	18,5	19,1	18,9	19,5	20,0
	6H	18,7	19,2	19,2	19,7	20,2	18,4	18,9	18,9	19,3	19,9
	8H	18,7	19,1	19,2	19,6	20,1	18,3	18,8	18,8	19,3	19,8
	12H	18,6	19,0	19,2	19,5	20,0	18,3	18,7	18,8	19,2	19,7
12H	4H	18,8	19,3	19,3	19,7	20,2	18,5	19,0	19,0	19,4	19,9
	6H	18,7	19,1	19,2	19,6	20,1	18,4	18,8	18,9	19,2	19,8
	8H	18,6	19,0	19,2	19,5	20,0	18,3	18,7	18,8	19,2	19,7

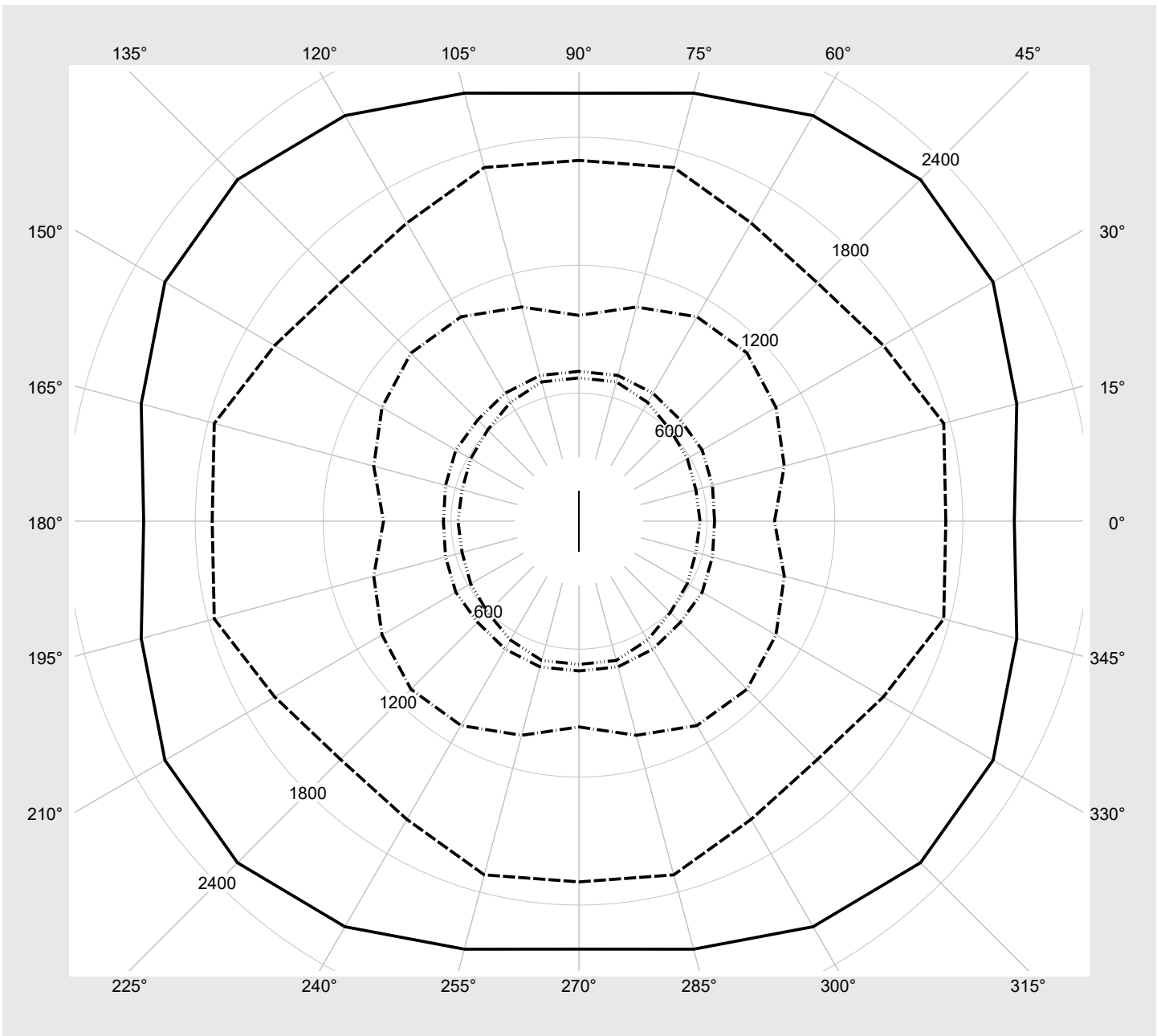
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 2940 B = 49
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		19452.8	20315.3	20437.6	20402.6	19662.5	18275.0	17396.7	
50°		8421.2	8918.7	9514.3	9918.7	9238.0	8480.2	8204.5	
55°		3783.2	4132.5	4709.4	5424.9	4781.9	4042.7	3721.5	
60°		2665.3	2812.8	3074.2	3383.2	3063.4	2762.6	2614.2	
65°		2041.8	2125.7	2242.6	2265.1	2195.7	2077.8	2006.6	
70°		1720.5	1771.1	1648.1	1580.8	1614.6	1716.9	1691.5	
75°		917.1	996.7	1066.8	1114.6	1106.5	1039.6	964.8	
80°		635.9	648.0	667.0	671.8	692.9	707.2	702.4	
85°		567.7	567.7	586.6	605.6	643.4	676.1	671.8	

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



## Lichttechnischer Prüfbefund

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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	60.6
95	241	252	10275	57.7
90	227	250	9706	54.4
85	214	248	9175	51.5
80	201	245	8638	48.5
75	188	243	8102	45.4
70	175	240	7559	42.4
65	162	238	7013	39.5
60	149	234	6463	36.5
55	137	231	5954	33.8
50	124	228	5400	30.7
45	111	224	4843	27.8
40	99	219	4326	25.1
35	86	214	3764	22.2
30	74	209	3242	19.5
25	62	202	2718	16.9
20	49	194	2146	13.9
15	37	183	1617	11.2
10	25	169	1086	8.6
5	13	145	554	5.9
2	6	117	243	4.3