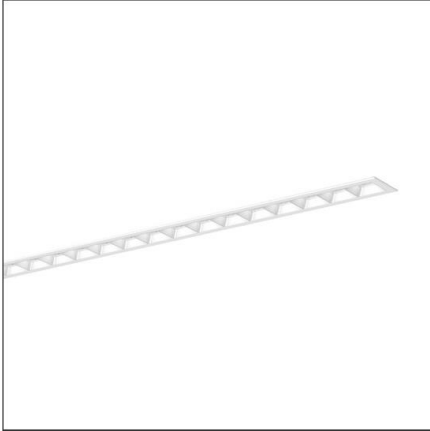


## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX16DA34WB  
EAN: 4058352907566

LP-Nummer  
59267\_151



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

**Bestückung** LED 3000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 4320 lm  
Systemleistung = 25.1 W  
Lichtausbeute = 172.1 lm/W

Seriendokumentation  
02.08.2023

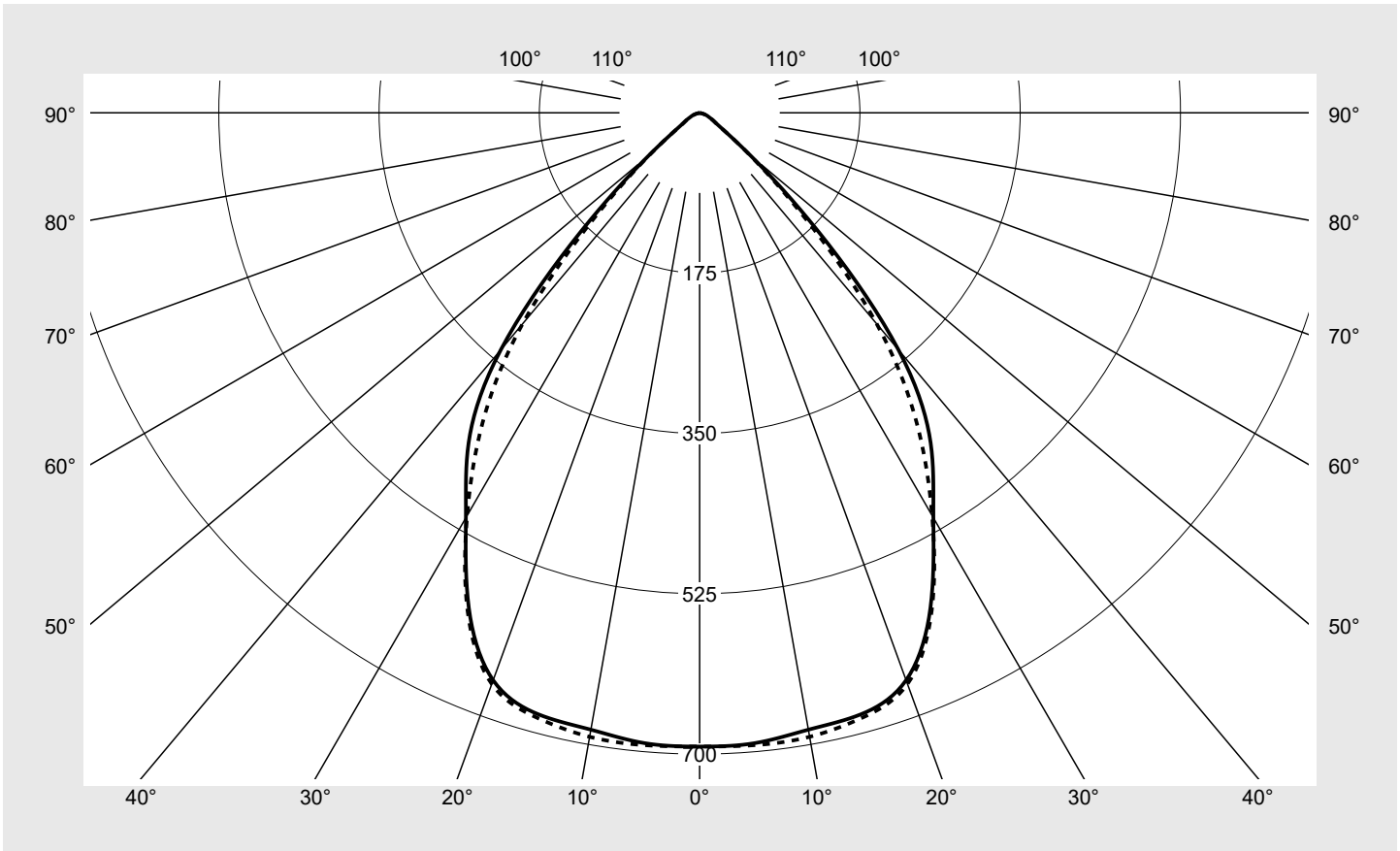
siteco

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.: 51MX16DA34WB</b> <b>EAN: 4058352907566</b>	<b>LP-Nummer</b> <b>59267_151</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

<b>Familie</b> Silica® 21	<b>Bestell-Nr.: 51MX16DA34WB</b> <b>EAN: 4058352907566</b>	<b>LP-Nummer</b> 59267_151
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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 = 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°		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	

**Lichttechnischer Prüfbefund**

**Familie**  
Silica® 21

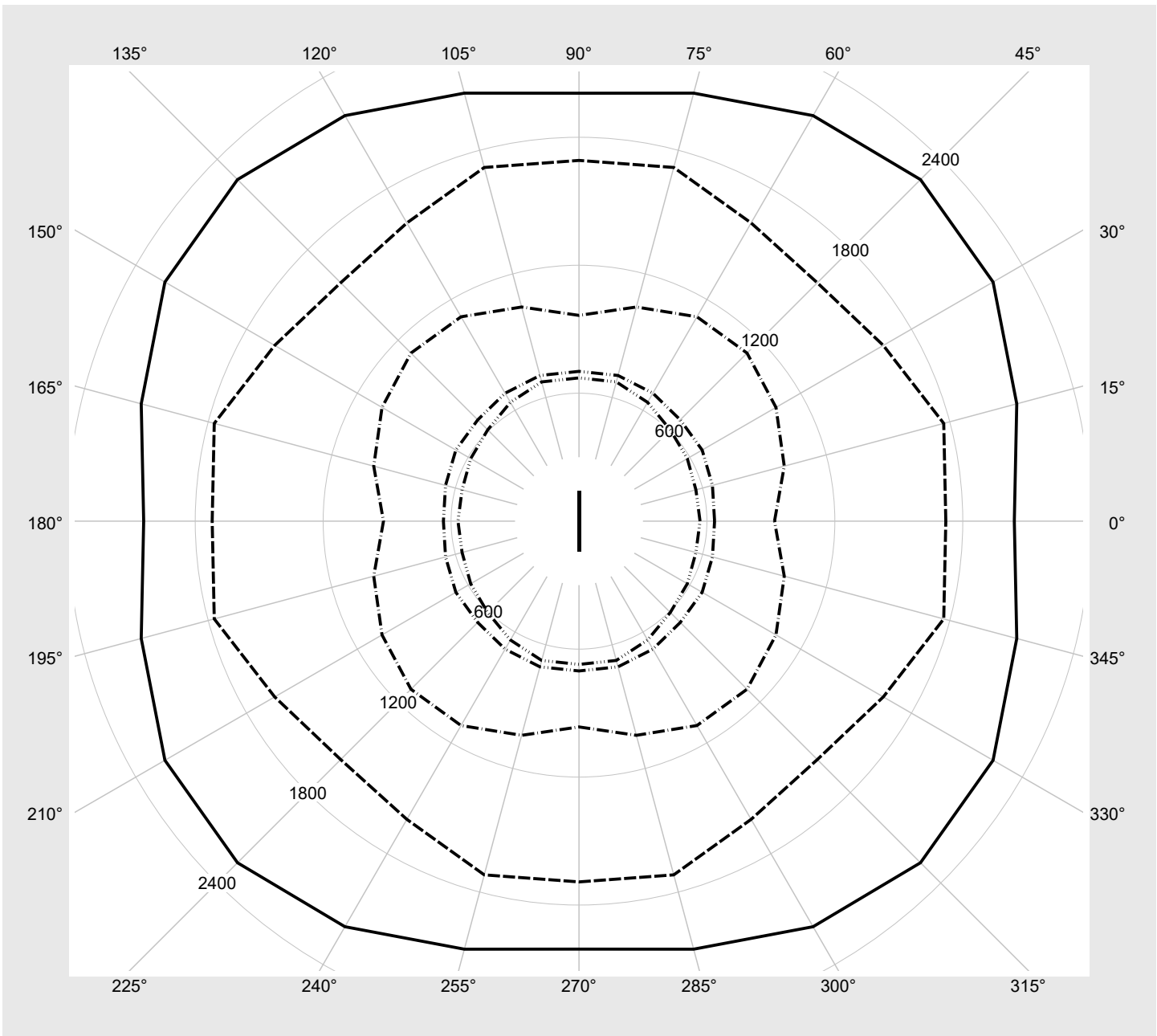
**Bestell-Nr.: 51MX16DA34WB**  
**EAN: 4058352907566**

**LP-Nummer**  
**59267\_151**

**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	4320	25.1
95	241	252	4111	23.8
90	227	250	3885	22.4
85	214	248	3673	21.1
80	201	245	3461	19.8
75	188	243	3246	18.5
70	175	240	3031	17.2
65	162	238	2813	16.0
60	149	234	2595	14.6
55	136	231	2373	13.4
50	123	227	2152	12.2
45	111	224	1946	11.0
40	98	219	1722	9.8
35	86	214	1514	8.6
30	74	209	1304	7.6
25	61	202	1077	6.4
20	49	194	865	5.3
15	37	183	651	4.2
10	25	169	438	3.2
5	13	145	223	1.9
3	8	127	134	1.2