

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX6MTST4W  
EAN: 4069025006547

LP-Nummer  
59273\_161

Seriendokumentation  
08.02.2024



**Ausführung** Einbauleuchte für Einlegemontage, weiß, quadratisch M600, Reflektor, weiß, breit strahlend,  $UGR \leq 19$  ( $L65 \leq 3000 \text{ cd/m}^2$ ), Tunable White

**Bestückung** LED 2700 K ... 6500 K | CRI  $\geq 80$

**Betriebsgerät** EVG-DALI

**Einstellung** indiv. Einstellung: Farbtemperatur 2700K

**Bemessungswerte** bei 2700 K  
Nettolichtstrom = 3720 lm  
Systemleistung = 34.8 W  
Lichtausbeute = 106.9 lm/W

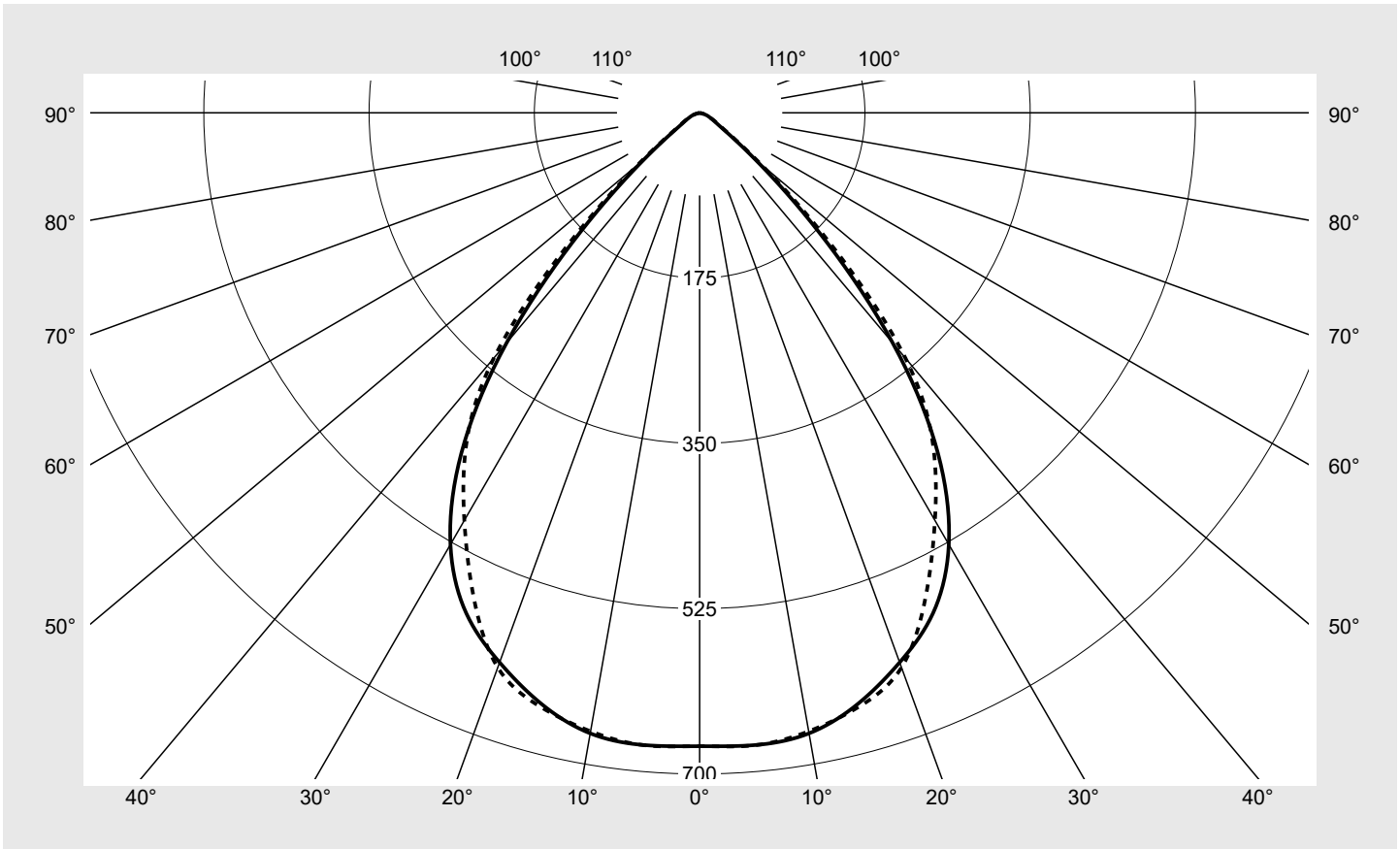
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 672 cd/klm



## Klassifizierungen

DIN 5040 A 6 0  
CIE N1=81 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

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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°	670.6	670.6	670.6	670.6	670.6	670.6	670.6	4.0	4.0
5°	672.0	671.0	666.9	670.2	672.1	669.7	672.1	32.0	36.0
10°	667.2	667.8	663.6	668.3	668.0	663.2	665.0	63.4	99.4
15°	647.8	651.0	649.7	657.6	659.0	654.0	651.1	92.7	192.1
20°	619.2	626.0	627.7	630.1	631.8	628.0	625.0	117.7	309.8
25°	584.6	592.8	592.8	586.4	578.5	572.7	566.1	135.1	444.9
30°	527.7	537.5	532.7	518.6	502.8	496.8	498.3	141.7	586.5
35°	439.9	446.6	438.9	429.3	425.3	427.0	431.4	136.4	722.9
40°	317.9	323.5	324.7	330.5	337.1	337.4	339.0	116.4	839.3
45°	178.7	192.9	207.5	213.7	212.9	199.2	195.5	78.4	917.7
50°	76.9	85.7	98.8	104.0	103.2	87.9	84.3	39.2	956.9
55°	31.7	36.2	43.2	49.1	45.3	36.9	34.6	18.2	975.1
60°	18.6	20.0	23.1	25.7	23.4	20.6	20.0	10.4	985.6
65°	12.3	12.8	13.8	14.2	13.9	13.0	12.7	6.6	992.2
70°	8.3	8.6	8.1	7.9	8.2	8.8	8.7	4.3	996.5
75°	3.4	3.7	4.0	4.2	4.3	4.0	3.7	2.1	998.6
80°	1.6	1.6	1.7	1.7	1.8	1.8	1.8	0.9	999.6
85°	0.7	0.7	0.8	0.8	0.8	0.9	0.9	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

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

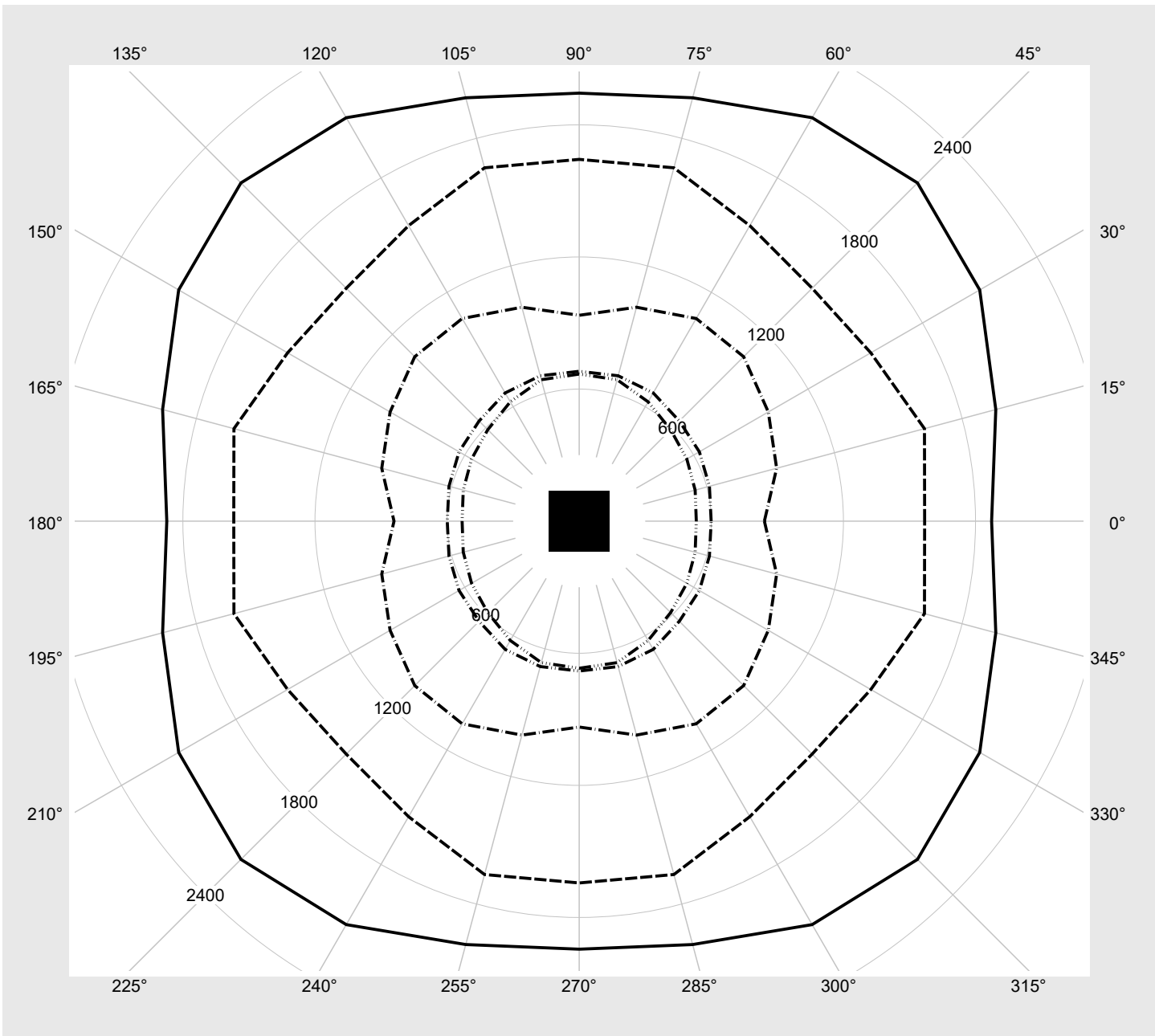
<b>Leuchtdichten-Tabelle</b>	Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm:	L = 294 B = 196
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		16312.8	17608.2	18939.7	19511.4	19435.4	18187.9	17848.1
50°		7726.0	8607.5	9918.7	10447.7	10362.4	8825.7	8469.4
55°		3567.6	4074.8	4863.0	5527.9	5099.1	4150.2	3893.9
60°		2405.4	2578.4	2978.8	3314.6	3025.6	2658.2	2586.3
65°		1873.1	1958.8	2100.5	2172.8	2115.9	1990.8	1944.1
70°		1568.9	1623.4	1529.3	1496.2	1549.8	1661.6	1643.3
75°		841.1	928.4	991.7	1056.3	1062.8	1005.9	935.1
80°		599.3	612.3	630.1	643.2	672.5	683.7	680.7
85°		531.8	545.2	564.4	587.4	625.9	665.2	668.1

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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	3720	34.8
95	237	251	3531	32.3
90	221	249	3347	30.1
85	206	246	3166	28.0
80	191	244	2977	25.8
75	177	241	2795	23.9
70	163	238	2606	22.1
65	149	234	2413	20.1
60	136	231	2225	18.4
55	124	228	2050	16.9
50	111	224	1854	15.2
45	99	219	1667	13.6
40	88	215	1494	12.3
35	76	210	1302	10.8
30	65	204	1123	9.5
25	53	197	924	7.9
20	42	188	741	6.6
15	31	177	554	5.3
10	20	161	367	4.1
5	9	132	179	2.7
3	4	102	93	2.0