

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX6MDU44W  
EAN: 4058352881071

LP-Nummer  
59267\_174



**Ausführung** Einbauleuchte für Einlegemontage, weiß, quadratisch M625, Reflektor, weiß, breit strahlend, UGR≤19 (L65≤3000cd/m<sup>2</sup>)

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 4600 lm  
Systemleistung = 27.2 W  
Lichtausbeute = 169.1 lm/W

Seriendokumentation  
20.10.2023

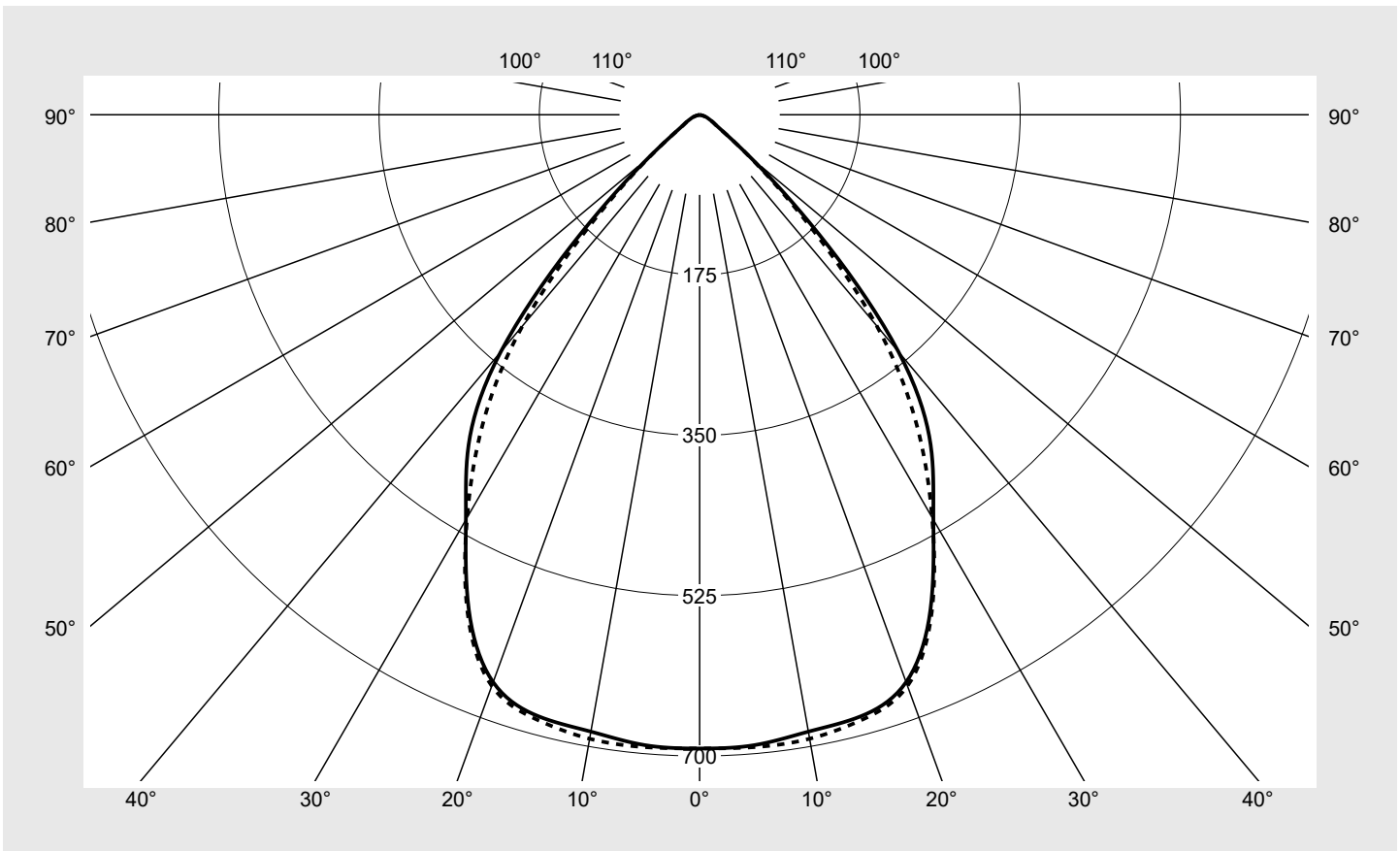
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Lichtstärke in cd/klm

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

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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°	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

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

<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 294 B = 196
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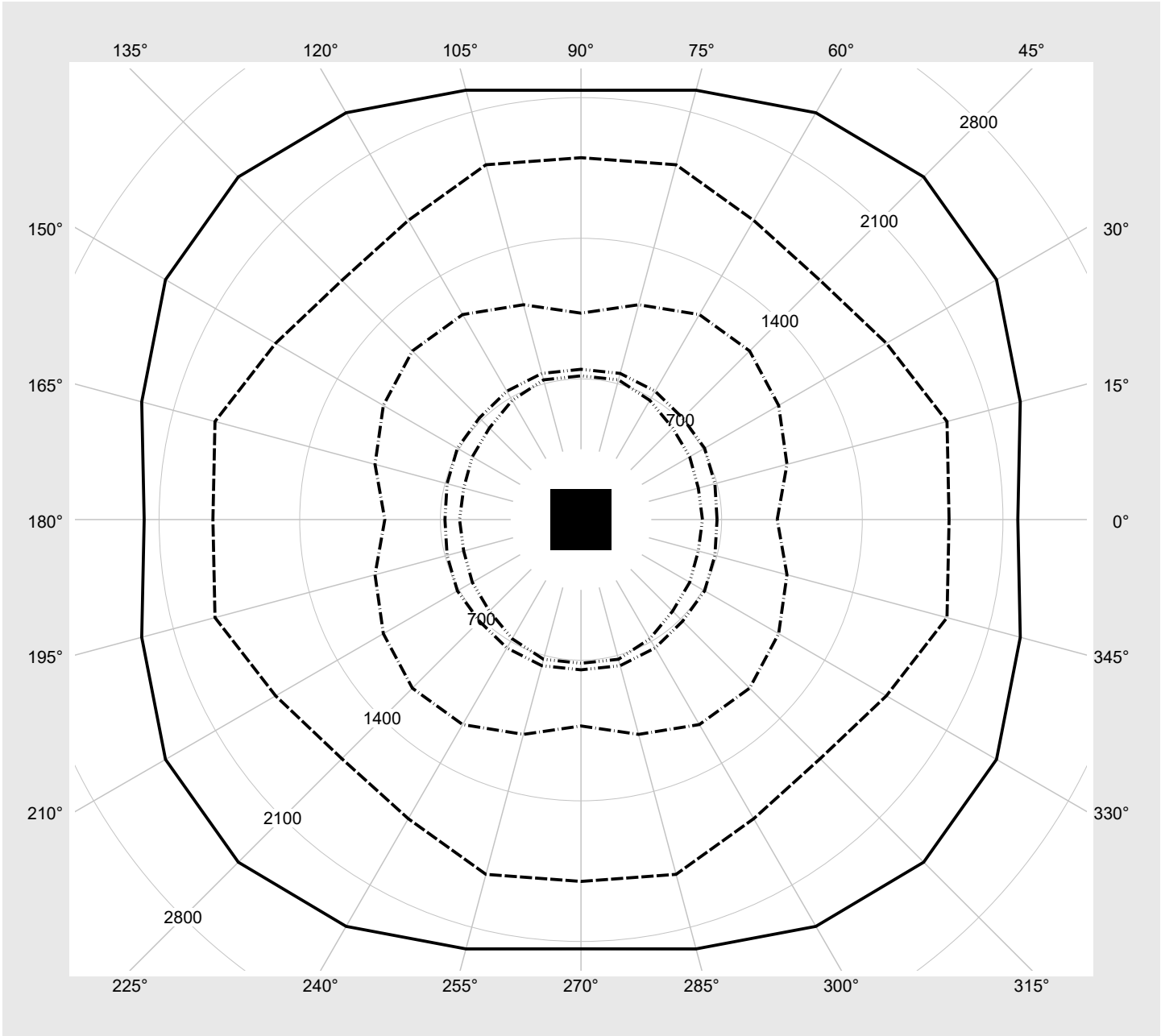
C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		20713.6	21632.0	21762.3	21725.0	20936.9	19459.5	18524.3
50°		8967.0	9496.8	10130.9	10561.6	9836.7	9029.9	8736.3
55°		4028.4	4400.3	5014.6	5776.5	5091.9	4304.7	3962.7
60°		2838.0	2995.1	3273.4	3602.5	3261.9	2941.7	2783.6
65°		2174.1	2263.5	2387.9	2411.9	2338.1	2212.5	2136.7
70°		1832.0	1885.9	1754.9	1683.3	1719.2	1828.2	1801.2
75°		976.5	1061.3	1136.0	1186.8	1178.2	1107.0	1027.4
80°		677.2	690.0	710.3	715.3	737.8	753.0	747.9
85°		604.5	604.5	624.7	644.8	685.1	719.9	715.3

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**Leuchtdichten in cd/m<sup>2</sup>**

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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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	4600	27.2
95	240	252	4365	25.8
90	227	250	4144	24.5
85	213	248	3903	23.0
80	200	245	3679	21.7
75	187	243	3452	20.4
70	174	240	3224	19.1
65	161	237	2994	17.8
60	148	234	2760	16.4
55	135	231	2526	15.2
50	123	227	2308	13.9
45	110	223	2071	12.6
40	97	219	1831	11.2
35	85	214	1607	10.0
30	73	208	1383	8.7
25	61	202	1157	7.5
20	48	193	912	6.2
15	36	182	684	5.1
10	24	168	453	3.9
5	12	142	222	2.8
2	5	110	87	2.0