

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX6NDU44W  
EAN: 4058352881101

LP-Nummer  
59476\_31



**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 = 27.0 W  
Lichtausbeute = 170.4 lm/W

Seriendokumentation  
08.07.2024

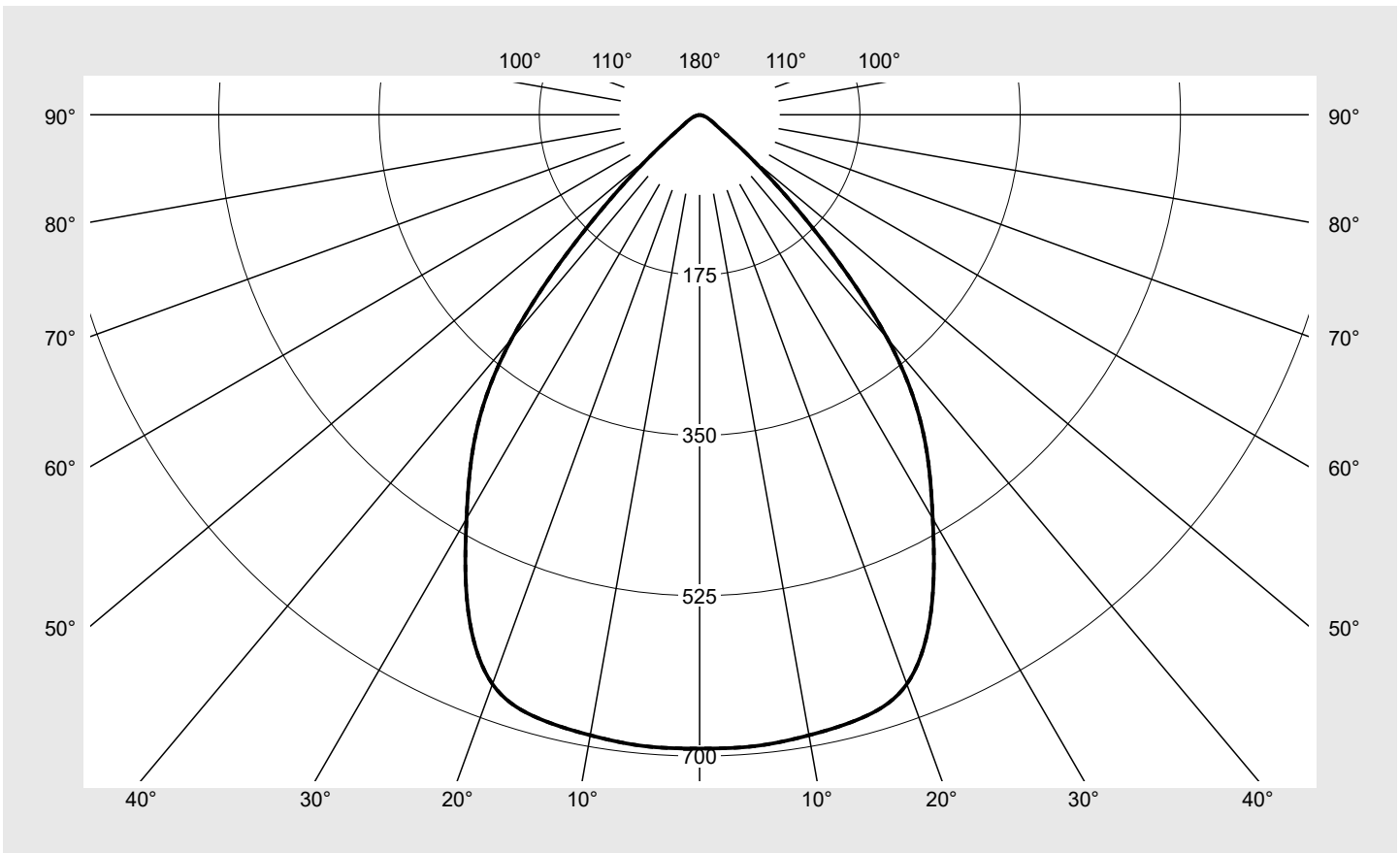
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 692 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°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
$\gamma$	Lichtstärke in cd/klm												
0°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8
5°	691.8	690.1	689.5	690.3	689.5	690.1	691.8	690.1	689.5	690.3	689.5	690.1	691.8
10°	687.7	685.9	684.6	686.1	684.6	685.9	687.7	685.9	684.6	686.1	684.6	685.9	687.7
15°	681.9	682.7	682.4	683.5	682.4	682.7	681.9	682.7	682.4	683.5	682.4	682.7	681.9
20°	661.4	664.8	668.4	670.3	668.4	664.8	661.4	664.8	668.4	670.3	668.4	664.8	661.4
25°	597.9	606.9	617.6	624.9	617.6	606.9	597.9	606.9	617.6	624.9	617.6	606.9	597.9
30°	509.0	515.5	521.1	521.4	521.1	515.5	509.0	515.5	521.1	521.4	521.1	515.5	509.0
35°	426.5	434.6	427.1	414.6	427.1	434.6	426.5	434.6	427.1	414.6	427.1	434.6	426.5
40°	319.3	331.1	332.4	327.0	332.4	331.1	319.3	331.1	332.4	327.0	332.4	331.1	319.3
45°	173.8	182.0	189.1	192.4	189.1	182.0	173.8	182.0	189.1	192.4	189.1	182.0	173.8
50°	71.3	74.6	80.4	85.0	80.4	74.6	71.3	74.6	80.4	85.0	80.4	74.6	71.3
55°	28.7	31.3	36.3	41.5	36.3	31.3	28.7	31.3	36.3	41.5	36.3	31.3	28.7
60°	17.6	18.6	20.5	22.6	20.5	18.6	17.6	18.6	20.5	22.6	20.5	18.6	17.6
65°	11.4	11.8	12.5	12.8	12.5	11.8	11.4	11.8	12.5	12.8	12.5	11.8	11.4
70°	7.8	8.0	7.4	7.2	7.4	8.0	7.8	8.0	7.4	7.2	7.4	8.0	7.8
75°	3.2	3.5	3.8	3.8	3.8	3.5	3.2	3.5	3.8	3.8	3.8	3.5	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

C- Ebenen	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-Zone	Summe Phi-Zone
$\gamma$	Lichtstärke in cd/klm											Lichtstrom in lm/klm	
0°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	4.1	4.1
5°	690.1	689.5	690.3	689.5	690.1	691.8	690.1	689.5	690.3	689.5	690.1	33.0	37.1
10°	685.9	684.6	686.1	684.6	685.9	687.7	685.9	684.6	686.1	684.6	685.9	65.3	102.4
15°	682.7	682.4	683.5	682.4	682.7	681.9	682.7	682.4	683.5	682.4	682.7	96.8	199.2
20°	664.8	668.4	670.3	668.4	664.8	661.4	664.8	668.4	670.3	668.4	664.8	124.9	324.1
25°	606.9	617.6	624.9	617.6	606.9	597.9	606.9	617.6	624.9	617.6	606.9	141.8	465.9
30°	515.5	521.1	521.4	521.1	515.5	509.0	515.5	521.1	521.4	521.1	515.5	141.8	607.7
35°	434.6	427.1	414.6	427.1	434.6	426.5	434.6	427.1	414.6	427.1	434.6	134.4	742.1
40°	331.1	332.4	327.0	332.4	331.1	319.3	331.1	332.4	327.0	332.4	331.1	115.9	857.9
45°	182.0	189.1	192.4	189.1	182.0	173.8	182.0	189.1	192.4	189.1	182.0	71.6	929.5
50°	74.6	80.4	85.0	80.4	74.6	71.3	74.6	80.4	85.0	80.4	74.6	32.6	962.2
55°	31.3	36.3	41.5	36.3	31.3	28.7	31.3	36.3	41.5	36.3	31.3	15.4	977.5
60°	18.6	20.5	22.6	20.5	18.6	17.6	18.6	20.5	22.6	20.5	18.6	9.4	986.9
65°	11.8	12.5	12.8	12.5	11.8	11.4	11.8	12.5	12.8	12.5	11.8	6.0	992.9
70°	8.0	7.4	7.2	7.4	8.0	7.8	8.0	7.4	7.2	7.4	8.0	3.9	996.9
75°	3.5	3.8	3.8	3.8	3.5	3.2	3.5	3.8	3.8	3.8	3.5	1.9	998.8
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	999.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	1000.0
90°	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	1000.0

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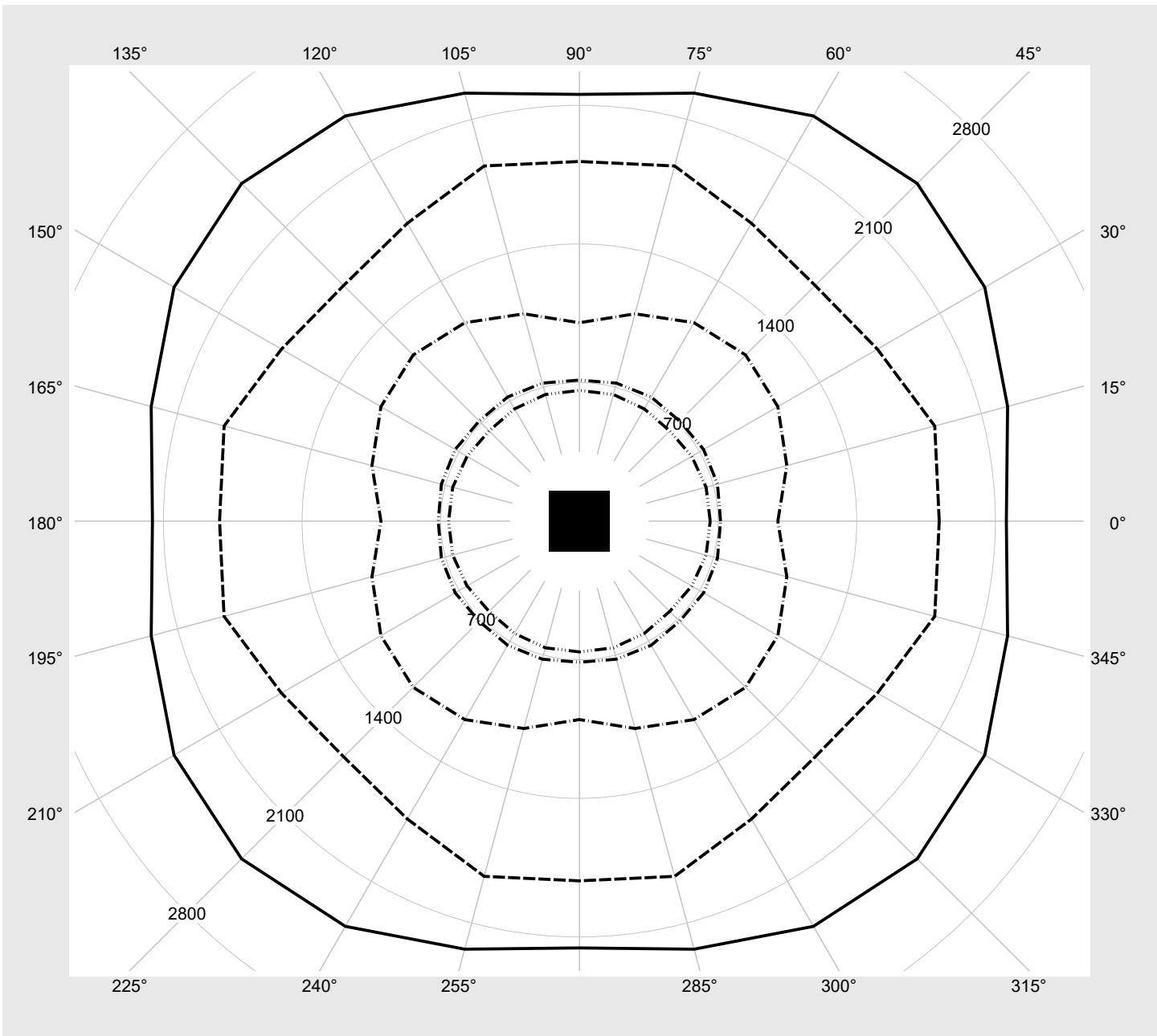
UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	19,2	20,5	19,6	20,8	21,1	19,2	20,5	19,6	20,8	21,1
	3H	19,1	20,3	19,5	20,6	21,0	19,1	20,3	19,5	20,6	21,0
	4H	19,1	20,1	19,5	20,5	20,9	19,1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

Leuchtdichten-Tabelle		Lichttechnische Abmessungen in mm: L = 294, B = 196											
C-Ebenen		Max. für $\gamma \geq 65^\circ$											
$\gamma$		0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
		Leuchtdichte in cd/m <sup>2</sup>											
45°		19618.9	21349.5	21349.5	19618.9	21349.7	21349.7	19618.9	21349.5	21349.7	19618.9	21349.5	21349.7
50°		8851.6	9983.9	9983.8	8851.6	9983.9	9983.9	8851.6	9983.8	9983.9	8851.6	9983.8	9983.9
55°		3995.6	5053.3	5053.3	3995.6	5053.3	5053.3	3995.6	5053.3	5053.3	3995.6	5053.2	5053.3
60°		2810.7	3267.7	3267.7	2810.7	3267.7	3267.7	2810.7	3267.7	3267.7	2810.7	3267.7	3267.7
65°		2155.4	2363.0	2363.0	2155.4	2363.0	2363.0	2155.4	2363.0	2363.0	2155.4	2363.0	2363.0
70°		1816.6	1737.2	1737.2	1816.6	1737.2	1737.0	1816.6	1737.0	1737.0	1816.6	1737.2	1737.0
75°		1001.8	1156.9	1157.2	1002.1	1157.2	1156.9	1001.8	1156.9	1157.2	1002.1	1157.2	1156.9
80°		712.6	724.0	724.0	712.6	724.0	724.0	712.6	724.0	724.0	712.6	724.0	724.0
85°		660.4	654.9	654.9	660.4	654.9	654.9	660.4	654.9	654.9	660.4	654.9	654.9

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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	4600	27.0
95	240	252	4364	25.6
90	227	250	4144	24.3
85	213	248	3904	22.8
80	200	245	3680	21.6
75	187	243	3454	20.2
70	174	240	3226	19.0
65	161	237	2995	17.7
60	148	234	2763	16.4
55	135	231	2528	15.1
50	122	227	2293	13.7
45	110	223	2073	12.4
40	97	219	1832	11.1
35	85	214	1609	10.0
30	73	208	1385	8.8
25	61	202	1159	7.6
20	48	193	913	6.3
15	36	182	684	5.1
10	24	168	453	3.9
5	12	142	222	2.7
2	5	110	87	2.0