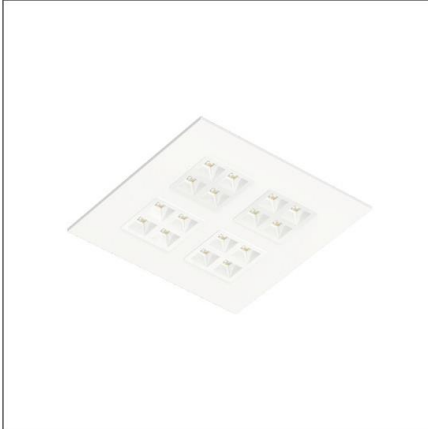


## Lichttechnischer Prüfbefund

Familie  
Silica® 31

Bestell-Nr.: 51MY6NMU44WA  
EAN: 4069025073624

LP-Nummer  
59651\_2



**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-Multilumen

**Einstellung** Werkseinstellung: DIP-Stufe=5

**Bemessungswerte** Nettolichtstrom = 4560 lm  
Systemleistung = 24.5 W  
Lichtausbeute = 186.1 lm/W

Seriendokumentation  
28.06.2024

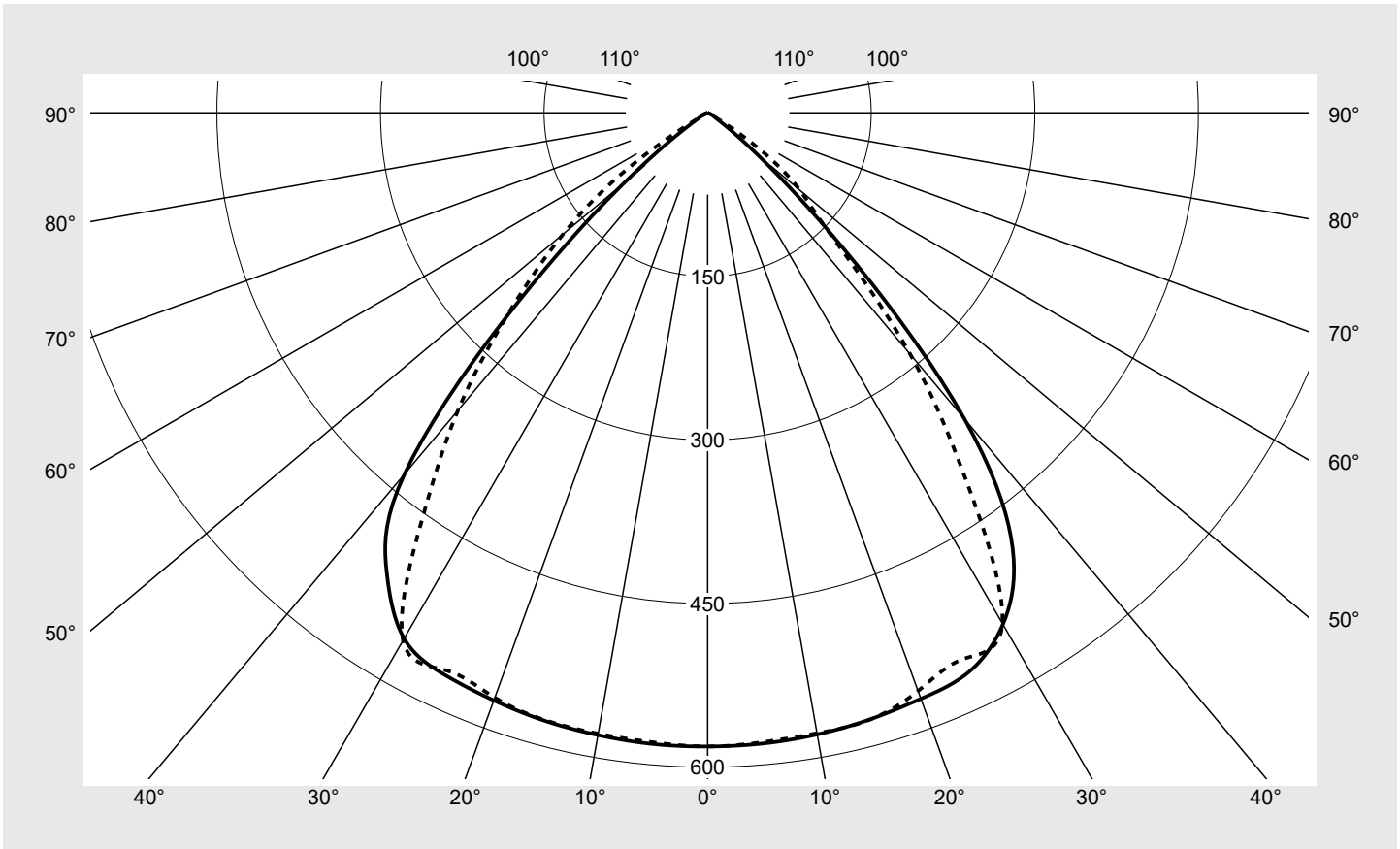
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 581 cd/klm



## Klassifizierungen

DIN 5040 A 6 0  
CIE N1=81 N2=99 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® 31</b>	<b>Bestell-Nr.: 51MY6NMU44WA</b> <b>EAN: 4069025073624</b>	<b>LP-Nummer</b> <b>59651_2</b>
<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°	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
5°	580.5	580.1	579.7	579.4	579.4	579.4	579.2	579.0	579.2	579.6	580.0	580.5	580.9
10°	578.7	578.5	578.4	578.3	578.0	577.7	577.6	577.5	578.2	578.7	578.6	578.8	579.3
15°	575.7	576.4	576.8	577.2	576.7	576.4	575.9	576.2	577.1	577.5	576.7	576.6	577.1
20°	571.7	572.8	573.6	576.1	569.0	564.9	564.1	566.2	570.5	575.8	575.1	572.8	573.3
25°	566.0	566.0	569.7	558.0	553.5	552.0	552.9	555.0	555.9	560.9	570.4	567.8	569.0
30°	541.6	540.0	546.9	525.4	533.0	536.9	540.7	543.2	535.9	528.0	550.7	551.3	556.7
35°	487.7	474.2	457.4	466.6	474.3	428.4	415.5	433.8	482.1	473.9	481.9	504.4	513.2
40°	366.3	361.1	338.8	353.2	337.9	294.5	289.0	304.8	337.6	388.1	355.1	393.3	432.6
45°	177.0	197.8	189.9	224.7	192.0	162.4	163.7	169.6	200.0	223.2	205.3	207.1	247.5
50°	59.6	73.0	68.9	101.0	76.5	96.8	110.7	105.6	75.4	118.3	93.8	83.2	99.3
55°	15.4	19.6	34.5	33.2	43.5	54.3	58.4	57.4	47.2	34.2	37.6	30.2	25.8
60°	6.2	7.6	11.7	17.6	20.1	12.5	5.7	12.8	19.7	20.8	16.2	8.0	8.2
65°	3.9	4.0	4.5	8.0	4.3	4.4	4.3	4.4	4.4	8.4	4.7	4.4	4.5
70°	2.5	2.7	2.8	2.8	3.1	3.0	2.9	3.0	3.1	2.9	2.9	2.7	3.0
75°	1.6	1.7	1.7	1.8	1.8	1.7	1.5	1.6	1.8	1.9	1.8	1.7	1.9
80°	0.9	1.0	1.0	0.9	0.4	0.1	0.0	0.1	0.4	0.8	1.0	1.0	1.2
85°	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6
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

## Lichttechnischer Prüfbefund

<b>Familie</b> <b>Silica® 31</b>	<b>Bestell-Nr.: 51MY6NMU44WA</b> <b>EAN: 4069025073624</b>	<b>LP-Nummer</b> <b>59651_2</b>
<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°	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	3.5	3.5
5°	580.6	580.2	579.9	579.4	579.2	579.3	579.6	579.6	579.6	579.9	580.2	27.7	31.2
10°	578.7	578.5	579.0	578.9	578.0	578.0	578.3	578.9	579.0	578.8	578.6	55.1	86.2
15°	576.8	576.9	577.2	577.4	577.4	576.4	577.2	578.0	577.5	577.0	576.5	81.8	168.1
20°	573.4	575.5	576.5	572.6	571.3	570.6	571.8	573.3	576.3	573.9	572.8	107.3	275.4
25°	568.6	571.7	567.0	563.8	563.3	564.4	565.2	564.3	564.4	569.1	566.4	130.6	405.9
30°	556.7	557.9	546.1	551.7	555.8	558.7	557.7	551.5	541.1	552.6	542.8	149.6	555.5
35°	512.6	507.6	507.3	509.7	467.7	457.5	468.2	504.9	500.8	479.1	486.3	150.6	706.1
40°	418.8	394.7	438.8	381.7	362.9	356.1	354.7	376.9	409.9	373.1	383.3	129.2	835.4
45°	231.5	245.7	274.1	252.0	248.3	255.5	243.3	232.7	270.2	228.4	219.8	85.0	920.3
50°	100.9	114.3	152.3	123.7	166.7	172.8	157.5	112.9	125.8	91.5	77.8	44.8	965.1
55°	35.6	44.5	45.1	77.3	90.7	91.0	88.1	63.5	43.5	44.4	20.3	21.2	986.3
60°	9.0	19.9	27.4	32.0	20.3	8.7	20.2	30.1	23.2	14.3	8.1	7.5	993.9
65°	4.7	6.0	11.5	7.6	6.8	6.4	6.8	7.5	11.0	5.2	4.2	2.9	996.8
70°	2.9	3.3	4.3	5.1	4.5	4.2	4.5	5.1	3.8	3.1	2.9	1.7	998.5
75°	1.9	2.0	2.5	2.7	2.2	2.0	2.2	2.6	2.2	1.9	1.8	1.0	999.6
80°	1.1	1.2	1.0	0.5	0.1	0.0	0.1	0.5	1.0	1.1	1.1	0.4	999.9
85°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	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

## Lichttechnischer Prüfbefund

<b>Familie</b> Silica® 31	<b>Bestell-Nr.: 51MY6NMU44WA</b> <b>EAN: 4069025073624</b>	<b>LP-Nummer</b> 59651_2
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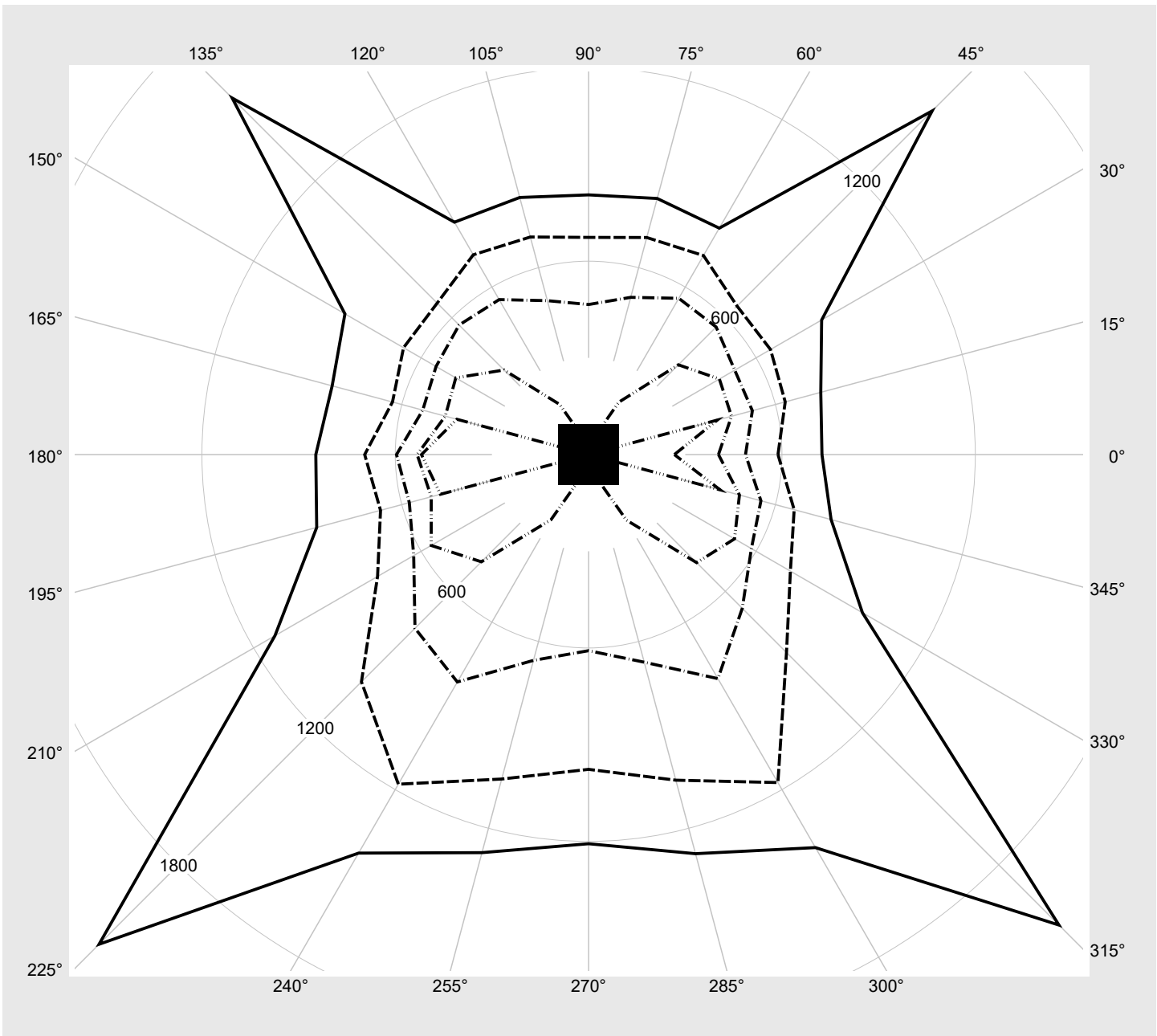
UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	19,7	21,1	20,1	21,4	21,7	19,5	20,9	19,9	21,2	21,5
	3H	19,6	20,8	20,0	21,1	21,5	19,4	20,6	19,8	20,9	21,3
	4H	19,5	20,6	19,9	21,0	21,4	19,3	20,4	19,7	20,8	21,2
	6H	19,5	20,5	19,9	20,8	21,2	19,3	20,3	19,7	20,6	21,0
	8H	19,5	20,4	19,9	20,8	21,2	19,3	20,2	19,7	20,6	21,0
	12H	19,5	20,3	19,9	20,7	21,1	19,3	20,1	19,7	20,5	20,9
4H	2H	19,6	20,7	20,0	21,0	21,4	19,4	20,5	19,8	20,8	21,2
	3H	19,5	20,3	19,9	20,7	21,2	19,2	20,1	19,7	20,5	20,9
	4H	19,4	20,2	19,8	20,6	21,0	19,2	19,9	19,6	20,4	20,8
	6H	19,3	20,0	19,8	20,4	20,9	19,1	19,8	19,5	20,2	20,7
	8H	19,3	19,9	19,7	20,3	20,8	19,0	19,6	19,5	20,1	20,6
	12H	19,3	19,8	19,7	20,2	20,7	19,0	19,5	19,5	20,0	20,5
8H	4H	19,3	19,9	19,7	20,3	20,8	19,0	19,6	19,5	20,1	20,6
	6H	19,2	19,7	19,7	20,1	20,7	18,9	19,4	19,4	19,9	20,4
	8H	19,1	19,6	19,6	20,0	20,6	18,9	19,3	19,4	19,8	20,3
	12H	19,1	19,4	19,6	19,9	20,5	18,9	19,2	19,4	19,7	20,3
12H	4H	19,3	19,8	19,7	20,2	20,7	19,0	19,5	19,5	20,0	20,5
	6H	19,1	19,6	19,7	20,0	20,6	18,9	19,3	19,4	19,8	20,3
	8H	19,1	19,4	19,6	19,9	20,5	18,9	19,2	19,4	19,7	20,3

Leuchtdichten-Tabelle		Max. für $\gamma \geq 65^\circ$											
		Lichttechnische Abmessungen in mm:											
		L = 240 B = 240											
C-Ebenen	$\gamma$	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
		Leuchtdichte in cd/m²											
45°		19819.6	21262.4	21497.3	18331.9	22392.1	22984.9	27704.9	27503.5	28208.2	28610.8	26049.4	25568.5
50°		7343.0	8491.0	9417.5	13632.9	9284.7	11549.7	12228.9	14075.9	15232.4	21286.0	13903.6	11264.3
55°		2129.0	4765.4	5998.2	8058.2	6509.7	5192.8	3562.9	6136.1	10671.1	12557.3	8770.9	6126.4
60°		973.8	1845.9	3177.8	900.8	3116.0	2572.0	1301.3	3150.8	5061.6	1372.9	4759.5	2268.3
65°		724.2	835.1	811.1	805.7	832.5	873.1	846.5	1123.9	1427.6	1207.3	1407.9	981.2
70°		587.7	651.8	712.9	673.8	715.7	663.2	694.9	756.2	1180.7	976.6	1174.9	723.1
75°		487.0	523.7	559.8	465.5	555.2	546.6	596.2	626.7	814.5	608.4	802.6	583.3
80°		403.0	468.7	187.8	0.0	179.6	476.0	532.0	564.0	233.4	0.0	234.8	522.9
85°		266.1	0.0	0.0	0.0	0.0	0.0	518.7	0.0	0.0	0.0	0.0	0.0

**Lichttechnischer Prüfbefund**

<b>Familie</b> <b>Silica® 31</b>	<b>Bestell-Nr.: 51MY6NMU44WA</b> <b>EAN: 4069025073624</b>	<b>LP-Nummer</b> <b>59651_2</b>
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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



## Lichttechnischer Prüfbefund

<b>Familie</b> Silica® 31	<b>Bestell-Nr.: 51MY6NMU44WA</b> <b>EAN: 4069025073624</b>	<b>LP-Nummer</b> 59651_2
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<b>Multilumen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>siteco</b>
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DIP-Stufe	Schalterstellung				Lichtstrom [lm]	Systemleistung [W]
	1	2	3	4		
15	ON	ON	ON	ON	6970	39.0
14	OFF	ON	ON	ON	6670	37.0
13	ON	OFF	ON	ON	6370	35.0
12	OFF	OFF	ON	ON	6070	33.0
10	OFF	ON	OFF	ON	5780	31.5
9	ON	OFF	OFF	ON	5500	30.0
8	OFF	OFF	OFF	ON	5130	28.0
6	OFF	ON	ON	OFF	4840	26.0
5	ON	OFF	ON	OFF	4560	24.5
4	OFF	OFF	ON	OFF	4260	22.5
2	OFF	ON	OFF	OFF	3940	21.0
1	ON	OFF	OFF	OFF	3610	19.0
0	OFF	OFF	OFF	OFF	3290	17.5