

## Lichttechnischer Prüfbefund

**Familie**  
**Spot 21**

**Bestell-Nr.: 51SE12MBA5B**  
**EAN: 4058352716588**

**LP-Nummer**  
**59384\_1**



**Ausführung** Reflektor, Abdeckscheibe, PC, eng strahlend  
**Bestückung** LED 2700 K | CRI ≥ 90  
**Betriebsgerät** EVG-Multilumen  
**Einstellung** Werkseinstellung: DIP-Stufe=14  
**Bemessungswerte** Nettolichtstrom = 5040 lm  
 Systemleistung = 39.7 W  
 Lichtausbeute = 127 lm/W

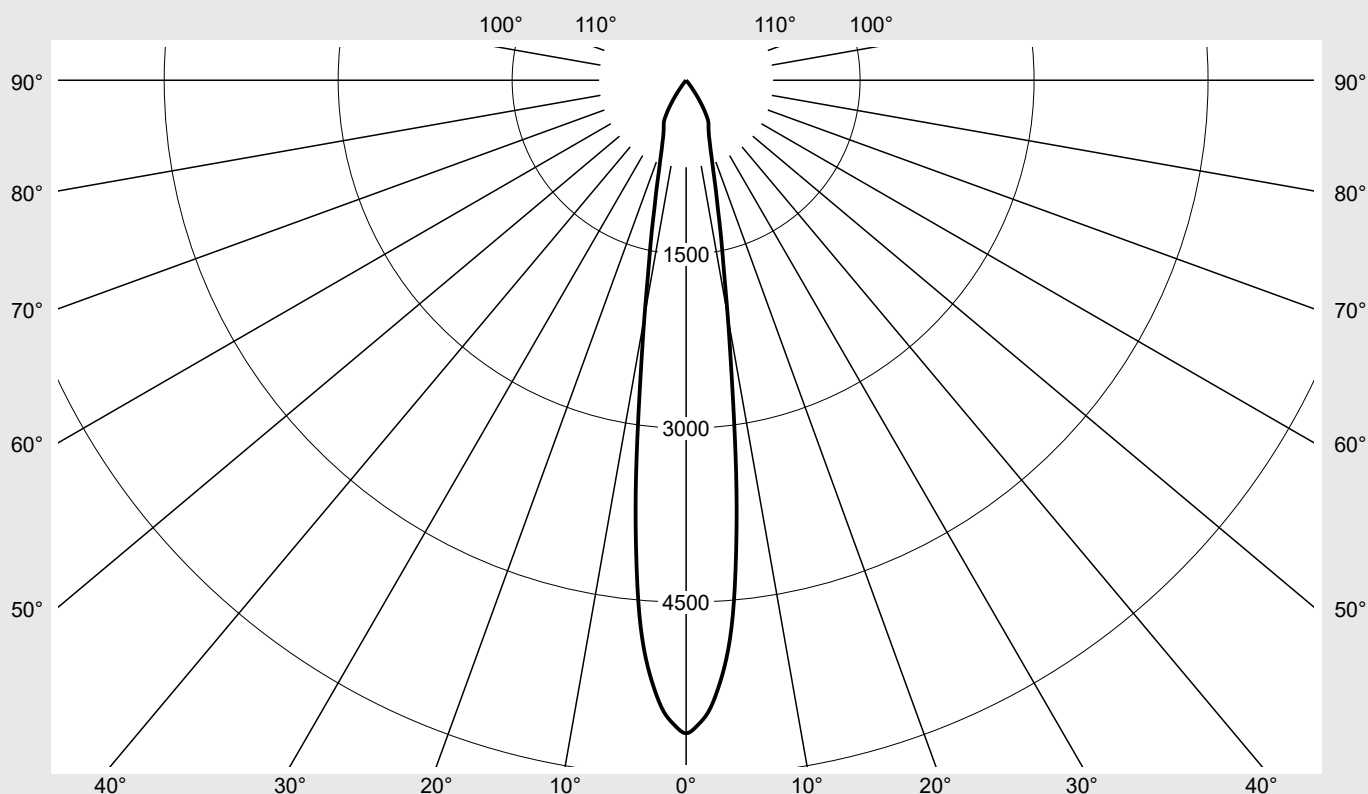
**Seriendokumentation**  
14.02.2023

**sITeco**

**Lichtstärke in cd/klm**

**C180-0**

**Imax: 5631 cd/klm**



**Klassifizierungen**

DIN 5040 A 8 0  
 CIE N1=95 N2=98 N3=99  
 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>
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C-Ebenen	0°	Phi-Zone	Summe Phi-Zone
$\gamma$	Lichtstärke in cd/klm		Lichtstrom in lm/klm
0°	5630.9	1.3	1.3
1°	5563.8	10.6	12.0
2°	5452.3	20.9	32.9
3°	5253.2	30.1	63.0
4°	4992.9	38.2	101.2
5°	4624.7	44.2	145.4
6°	4116.1	47.2	192.6
7°	3563.6	47.6	240.2
8°	2975.5	45.4	285.6
9°	2466.1	42.3	327.9
10°	2068.6	39.4	367.3
11°	1734.5	36.3	403.6
12°	1497.3	34.1	437.8
13°	1298.1	32.0	469.8
14°	1124.5	29.8	499.6
15°	997.0	28.3	527.9
16°	883.3	26.7	554.6
17°	791.2	25.4	580.0
18°	719.9	24.4	604.4
19°	657.0	23.5	627.8
20°	607.4	22.8	650.6
21°	567.0	22.3	672.9
22°	528.8	21.7	694.6
23°	501.0	21.5	716.1
24°	477.4	21.3	737.4
25°	457.0	21.2	758.5
26°	440.6	21.2	779.7
27°	425.0	21.2	800.9
28°	408.0	21.0	821.9
29°	383.2	20.4	842.3
30°	346.7	19.0	861.3
31°	309.5	17.5	878.8
32°	269.8	15.7	894.4
33°	226.5	13.5	908.0
34°	186.7	11.4	919.4
35°	144.7	9.1	928.5
36°	108.4	7.0	935.5
37°	75.1	5.0	940.5
38°	48.0	3.2	943.7
39°	33.2	2.3	946.0
40°	25.7	1.8	947.8
41°	21.0	1.5	949.3
42°	18.4	1.3	950.7
43°	17.3	1.3	952.0
44°	16.5	1.3	953.2
45°	15.9	1.2	954.4
46°	15.7	1.2	955.7

C-Ebenen	0°	Phi-Zone	Summe Phi-Zone
$\gamma$	Lichtstärke in cd/klm		Lichtstrom in lm/klm
47°	15.2	1.2	956.9
48°	15.2	1.2	958.1
49°	14.8	1.2	959.4
50°	14.9	1.3	960.6
51°	15.0	1.3	961.9
52°	15.1	1.3	963.2
53°	15.9	1.4	964.6
54°	16.8	1.5	966.1
55°	18.1	1.6	967.7
56°	19.7	1.8	969.5
57°	20.9	1.9	971.4
58°	21.3	2.0	973.4
59°	20.6	1.9	975.3
60°	18.8	1.8	977.1
61°	16.0	1.5	978.7
62°	13.5	1.3	980.0
63°	11.7	1.1	981.1
64°	10.7	1.1	982.2
65°	10.2	1.0	983.2
66°	9.8	1.0	984.2
67°	9.3	0.9	985.1
68°	9.1	0.9	986.0
69°	8.8	0.9	986.9
70°	8.5	0.9	987.8
71°	8.5	0.9	988.7
72°	8.6	0.9	989.6
73°	8.4	0.9	990.5
74°	8.1	0.9	991.3
75°	7.7	0.8	992.1
76°	7.8	0.8	993.0
77°	7.7	0.8	993.8
78°	7.1	0.8	994.6
79°	7.0	0.8	995.3
80°	6.6	0.7	996.0
81°	6.2	0.7	996.7
82°	5.6	0.6	997.3
83°	4.9	0.5	997.8
84°	4.2	0.5	998.3
85°	3.7	0.4	998.7
86°	3.1	0.3	999.1
87°	2.8	0.3	999.4
88°	2.2	0.2	999.6
89°	2.5	0.3	999.9
90°	2.2	0.2	1000.1

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	20,7	21,7	21,0	22,0	22,3	20,7	21,7	21,0	22,0	22,3
	3H	21,2	22,0	21,6	22,3	22,7	21,2	22,0	21,6	22,3	22,7
	4H	21,5	22,3	21,9	22,6	23,0	21,5	22,3	21,9	22,6	23,0
	6H	21,9	22,7	22,3	23,1	23,5	21,9	22,7	22,3	23,1	23,5
	8H	22,4	23,0	22,8	23,4	23,8	22,4	23,0	22,8	23,4	23,8
	12H	22,5	23,2	22,9	23,6	24,0	22,5	23,2	22,9	23,6	24,0
4H	2H	20,7	21,5	21,1	21,9	22,3	20,7	21,5	21,1	21,9	22,3
	3H	21,4	22,0	21,8	22,4	22,8	21,4	22,0	21,8	22,4	22,8
	4H	21,9	22,5	22,4	22,9	23,4	21,9	22,5	22,4	22,9	23,4
	6H	22,6	23,2	23,0	23,6	24,1	22,6	23,2	23,0	23,6	24,1
	8H	23,1	23,6	23,6	24,0	24,5	23,1	23,6	23,6	24,0	24,5
	12H	23,3	23,8	23,8	24,3	24,8	23,3	23,8	23,8	24,3	24,8
8H	4H	22,2	22,6	22,6	23,1	23,5	22,2	22,6	22,6	23,1	23,5
	6H	23,2	23,6	23,8	24,0	24,6	23,2	23,6	23,8	24,0	24,6
	8H	23,7	24,0	24,2	24,5	25,0	23,7	24,0	24,2	24,5	25,0
	12H	24,0	24,4	24,5	24,9	25,4	24,0	24,4	24,5	24,9	25,4
12H	4H	22,1	22,6	22,6	23,0	23,5	22,1	22,6	22,6	23,0	23,5
	6H	23,1	23,6	23,6	24,1	24,6	23,1	23,6	23,6	24,1	24,6
	8H	23,7	24,1	24,2	24,6	25,1	23,7	24,1	24,2	24,6	25,1

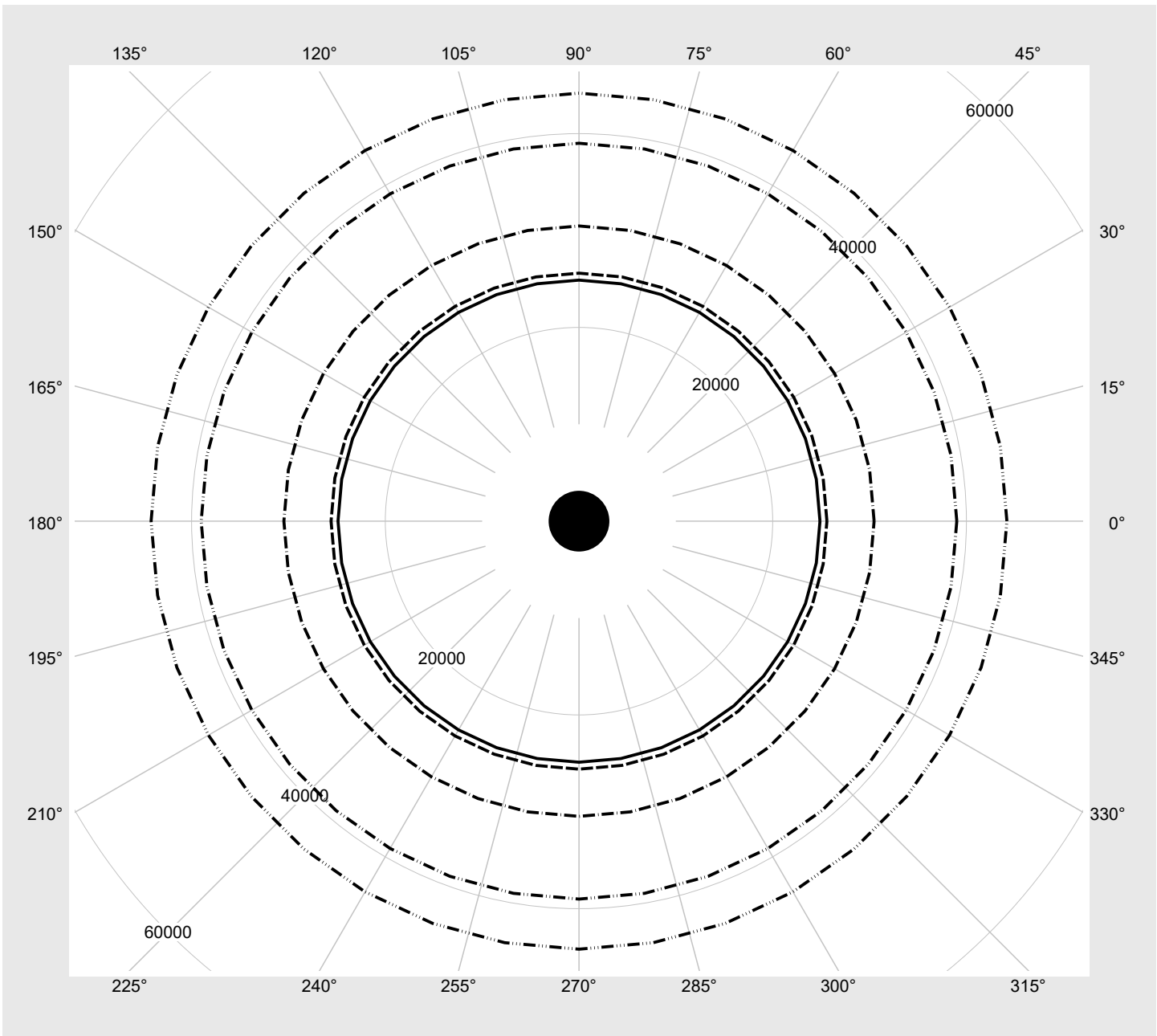
## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ Lichttechnische Abmessungen in mm: D = 79

C-Ebenen	0°
$\gamma$	Leuchtdichte in cd/m <sup>2</sup>
45°	23075.5
50°	23813.7
55°	32533.0
60°	38611.8
65°	24882.1
70°	25598.8
75°	30470.9
80°	39009.5
85°	44181.7

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**Leuchtdichten in cd/m<sup>2</sup>**       $\gamma$  65°     $\gamma$  70°     $\gamma$  75°     $\gamma$  80°     $\gamma$  85°



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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	5240	41.7
14	ON	ON	ON	OFF	5040	39.7
13	ON	ON	OFF	ON	4830	37.6
12	ON	ON	OFF	OFF	4620	35.5
11	ON	OFF	ON	ON	4370	33.4
10	ON	OFF	ON	OFF	4150	31.4
9	ON	OFF	OFF	ON	3920	29.4
8	ON	OFF	OFF	OFF	3680	27.3
7	OFF	ON	ON	ON	3480	25.8
6	OFF	ON	ON	OFF	3250	23.9
5	OFF	ON	OFF	ON	3000	21.9
4	OFF	ON	OFF	OFF	2760	20.0
3	OFF	OFF	ON	ON	2460	17.8
2	OFF	OFF	ON	OFF	2210	15.9
1	OFF	OFF	OFF	ON	1930	13.9
0	OFF	OFF	OFF	OFF	1660	12.0