

## Lichttechnischer Prüfbefund

**Familie**  
**Spot 11**

**Bestell-Nr.: 51SD14MAA5A**  
**EAN: 4058352716342**

**LP-Nummer**  
**59368\_1**



**Ausführung** Reflektor, Abdeckscheibe, PC, klar, breit strahlend  
**Bestückung** LED 2700 K | CRI ≥ 90  
**Betriebsgerät** EVG-Multilumen  
**Einstellung** Werkseinstellung: DIP-Stufe=10  
**Bemessungswerte** Nettolichtstrom = 5550 lm  
 Systemleistung = 37.9 W  
 Lichtausbeute = 146.4 lm/W

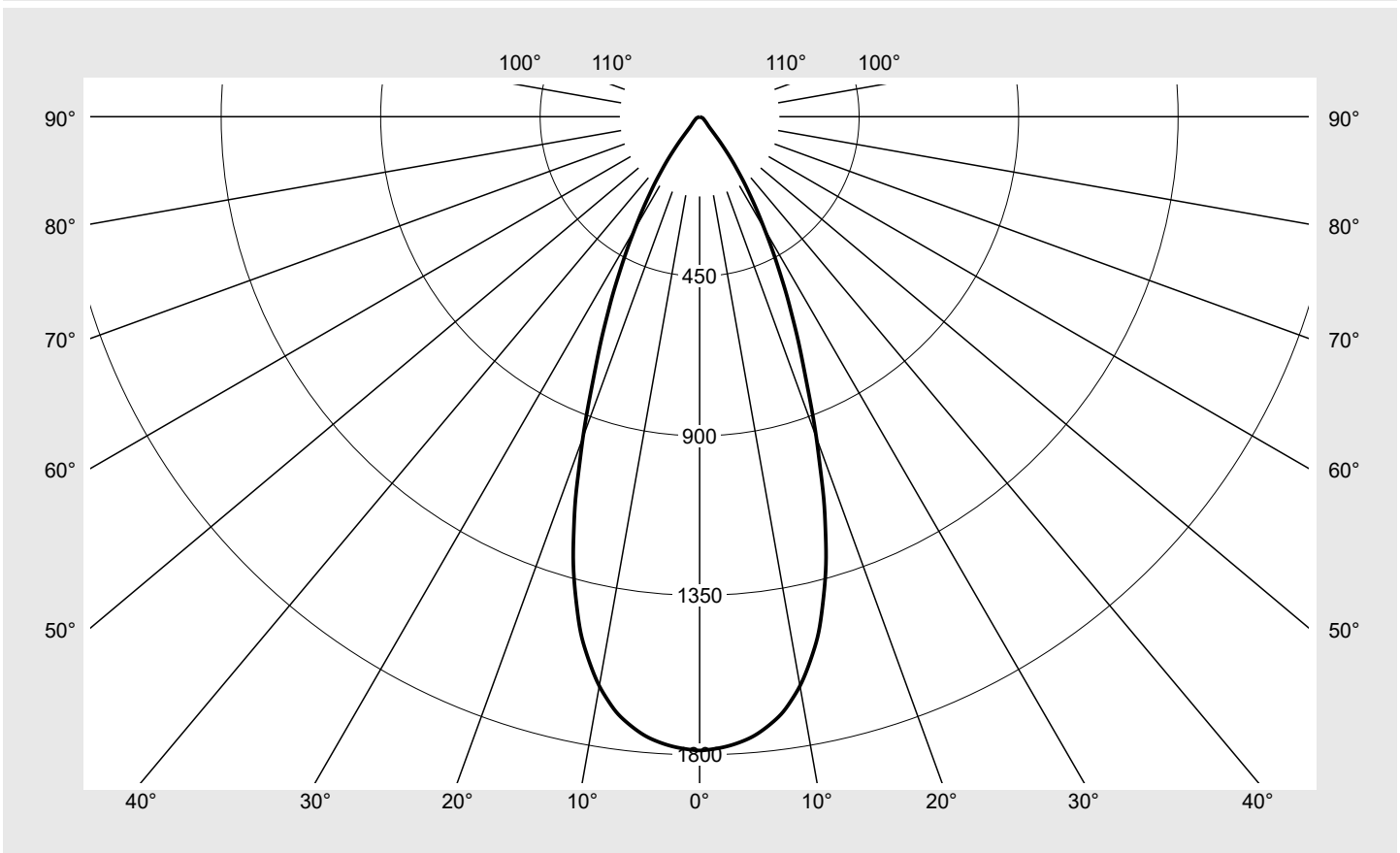
**Seriendokumentation**  
23.12.2022

**sITeco**

**Lichtstärke in cd/klm**

**C180-0**

**Imax: 1788 cd/klm**



**Klassifizierungen**

DIN 5040 A 7 0  
 CIE N1=95 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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|                           |  |                             |
|---------------------------|--|-----------------------------|
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|  |                             |               |
|--|-----------------------------|---------------|
| <b>Wertetabelle Lichtstärkemessung</b> | <b>Maximale Lichtstärke</b> | <b>siteco</b> |
|--|-----------------------------|---------------|

| C-Ebenen | 0°                    | Phi-Zone             | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| $\gamma$ | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                |
| 0°       | 1787.8                | 0.4                  | 0.4            |
| 1°       | 1785.0                | 3.4                  | 3.8            |
| 2°       | 1780.6                | 6.8                  | 10.7           |
| 3°       | 1774.1                | 10.2                 | 20.8           |
| 4°       | 1765.1                | 13.5                 | 34.3           |
| 5°       | 1753.5                | 16.8                 | 51.1           |
| 6°       | 1737.2                | 19.9                 | 71.0           |
| 7°       | 1718.0                | 23.0                 | 94.0           |
| 8°       | 1695.0                | 25.9                 | 119.8          |
| 9°       | 1664.4                | 28.6                 | 148.4          |
| 10°      | 1630.4                | 31.0                 | 179.4          |
| 11°      | 1588.8                | 33.2                 | 212.7          |
| 12°      | 1543.0                | 35.2                 | 247.9          |
| 13°      | 1492.7                | 36.8                 | 284.7          |
| 14°      | 1429.8                | 37.9                 | 322.6          |
| 15°      | 1364.5                | 38.7                 | 361.3          |
| 16°      | 1294.1                | 39.1                 | 400.5          |
| 17°      | 1213.5                | 38.9                 | 439.4          |
| 18°      | 1133.2                | 38.4                 | 477.8          |
| 19°      | 1043.5                | 37.3                 | 515.0          |
| 20°      | 962.6                 | 36.1                 | 551.1          |
| 21°      | 880.9                 | 34.6                 | 585.7          |
| 22°      | 803.1                 | 33.0                 | 618.7          |
| 23°      | 736.5                 | 31.6                 | 650.3          |
| 24°      | 675.3                 | 30.1                 | 680.4          |
| 25°      | 614.8                 | 28.5                 | 708.9          |
| 26°      | 561.0                 | 27.0                 | 735.9          |
| 27°      | 506.2                 | 25.2                 | 761.1          |
| 28°      | 457.2                 | 23.5                 | 784.6          |
| 29°      | 410.6                 | 21.8                 | 806.4          |
| 30°      | 366.1                 | 20.1                 | 826.5          |
| 31°      | 327.4                 | 18.5                 | 845.0          |
| 32°      | 290.6                 | 16.9                 | 861.9          |
| 33°      | 255.7                 | 15.3                 | 877.2          |
| 34°      | 225.3                 | 13.8                 | 891.0          |
| 35°      | 193.5                 | 12.2                 | 903.2          |
| 36°      | 166.5                 | 10.7                 | 913.9          |
| 37°      | 139.9                 | 9.2                  | 923.1          |
| 38°      | 114.0                 | 7.7                  | 930.8          |
| 39°      | 91.9                  | 6.3                  | 937.2          |
| 40°      | 71.2                  | 5.0                  | 942.2          |
| 41°      | 55.8                  | 4.0                  | 946.2          |
| 42°      | 45.5                  | 3.3                  | 949.5          |
| 43°      | 39.2                  | 2.9                  | 952.5          |
| 44°      | 34.9                  | 2.7                  | 955.1          |
| 45°      | 32.1                  | 2.5                  | 957.6          |
| 46°      | 29.6                  | 2.3                  | 960.0          |

| C-Ebenen | 0°                    | Phi-Zone             | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| $\gamma$ | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                |
| 47°      | 27.8                  | 2.2                  | 962.2          |
| 48°      | 25.7                  | 2.1                  | 964.3          |
| 49°      | 24.0                  | 2.0                  | 966.3          |
| 50°      | 22.5                  | 1.9                  | 968.2          |
| 51°      | 21.0                  | 1.8                  | 969.9          |
| 52°      | 19.7                  | 1.7                  | 971.7          |
| 53°      | 18.6                  | 1.6                  | 973.3          |
| 54°      | 17.4                  | 1.5                  | 974.8          |
| 55°      | 16.5                  | 1.5                  | 976.3          |
| 56°      | 15.5                  | 1.4                  | 977.7          |
| 57°      | 14.7                  | 1.4                  | 979.1          |
| 58°      | 14.0                  | 1.3                  | 980.4          |
| 59°      | 13.3                  | 1.2                  | 981.6          |
| 60°      | 12.7                  | 1.2                  | 982.8          |
| 61°      | 12.0                  | 1.2                  | 984.0          |
| 62°      | 11.5                  | 1.1                  | 985.1          |
| 63°      | 10.9                  | 1.1                  | 986.2          |
| 64°      | 10.4                  | 1.0                  | 987.2          |
| 65°      | 9.9                   | 1.0                  | 988.2          |
| 66°      | 9.4                   | 0.9                  | 989.1          |
| 67°      | 9.0                   | 0.9                  | 990.0          |
| 68°      | 8.5                   | 0.9                  | 990.9          |
| 69°      | 8.1                   | 0.8                  | 991.7          |
| 70°      | 7.7                   | 0.8                  | 992.5          |
| 71°      | 7.3                   | 0.8                  | 993.3          |
| 72°      | 6.8                   | 0.7                  | 994.0          |
| 73°      | 6.5                   | 0.7                  | 994.7          |
| 74°      | 6.1                   | 0.6                  | 995.3          |
| 75°      | 5.7                   | 0.6                  | 995.9          |
| 76°      | 5.4                   | 0.6                  | 996.5          |
| 77°      | 5.0                   | 0.5                  | 997.0          |
| 78°      | 4.7                   | 0.5                  | 997.5          |
| 79°      | 4.4                   | 0.5                  | 998.0          |
| 80°      | 4.0                   | 0.4                  | 998.4          |
| 81°      | 3.5                   | 0.4                  | 998.8          |
| 82°      | 3.1                   | 0.3                  | 999.1          |
| 83°      | 2.5                   | 0.3                  | 999.4          |
| 84°      | 2.0                   | 0.2                  | 999.6          |
| 85°      | 1.5                   | 0.2                  | 999.8          |
| 86°      | 1.0                   | 0.1                  | 999.9          |
| 87°      | 0.6                   | 0.1                  | 1000.0         |
| 88°      | 0.2                   | 0.0                  | 1000.0         |
| 89°      | 0.1                   | 0.0                  | 1000.0         |
| 90°      | 0.1                   | 0.0                  | 1000.0         |

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

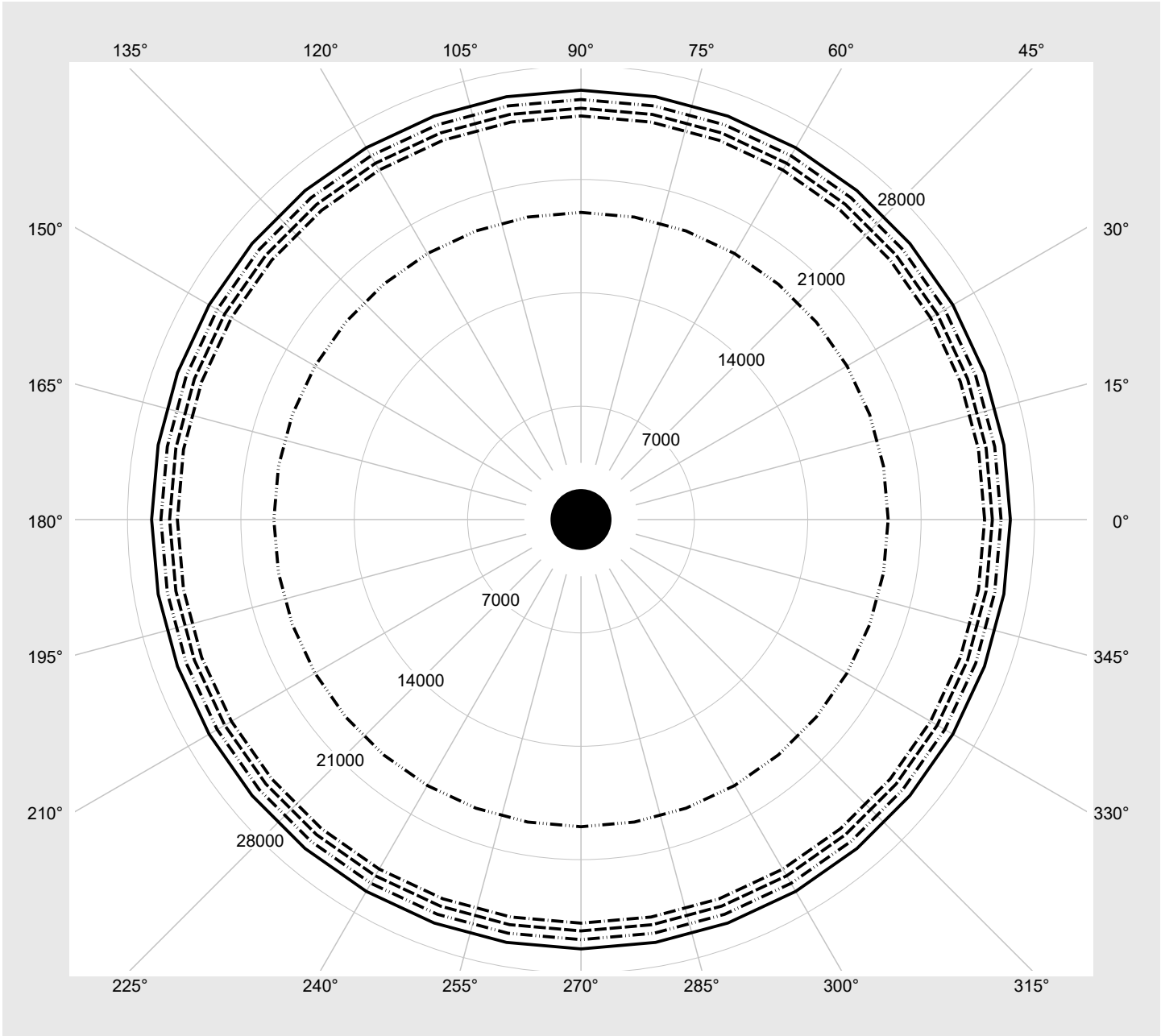
## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ Lichttechnische Abmessungen in mm: D = 79

| C-Ebenen | $0^\circ$                       |
|----------|---------------------------------|
| $\gamma$ | Leuchtdichte in $\text{cd/m}^2$ |
| 45°      | 51448.7                         |
| 50°      | 39600.2                         |
| 55°      | 32532.3                         |
| 60°      | 28678.1                         |
| 65°      | 26513.1                         |
| 70°      | 25401.7                         |
| 75°      | 24922.9                         |
| 80°      | 25938.4                         |
| 85°      | 18967.3                         |

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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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## Multilumen-Tabelle

Umgebungstemperatur: 25°C



| DIP-Stufe | Schalterstellung |     |     |     | Lichtstrom<br>[lm] | Systemleistung<br>[W] |
|-----------|------------------|-----|-----|-----|--------------------|-----------------------|
|           | 1                | 2   | 3   | 4   |                    |                       |
| 15        | ON               | ON  | ON  | ON  | 7210               | 50.7                  |
| 14        | ON               | ON  | ON  | OFF | 6920               | 47.9                  |
| 13        | ON               | ON  | OFF | ON  | 6550               | 45.3                  |
| 12        | ON               | ON  | OFF | OFF | 6240               | 43.0                  |
| 11        | ON               | OFF | ON  | ON  | 5880               | 40.2                  |
| 10        | ON               | OFF | ON  | OFF | 5550               | 37.9                  |
| 9         | ON               | OFF | OFF | ON  | 5180               | 35.5                  |
| 8         | ON               | OFF | OFF | OFF | 4900               | 33.2                  |
| 7         | OFF              | ON  | ON  | ON  | 4610               | 31.1                  |
| 6         | OFF              | ON  | ON  | OFF | 4300               | 28.8                  |
| 5         | OFF              | ON  | OFF | ON  | 3960               | 26.3                  |
| 4         | OFF              | ON  | OFF | OFF | 3640               | 24.0                  |
| 3         | OFF              | OFF | ON  | ON  | 3250               | 21.3                  |
| 2         | OFF              | OFF | ON  | OFF | 2920               | 19.1                  |
| 1         | OFF              | OFF | OFF | ON  | 2550               | 16.6                  |
| 0         | OFF              | OFF | OFF | OFF | 2190               | 14.3                  |