

Lichttechnischer Prüfbefund

Familie
Spot 21

Bestell-Nr.: 51SE14MBD5B
EAN: 4058352716663

LP-Nummer
59386_3



Ausführung Reflektor, Abdeckscheibe, PC, breit strahlend
Bestückung LED 4000 K | CRI ≥ 90
Betriebsgerät EVG-Multilumen
Einstellung Werkseinstellung: DIP-Stufe=14
Bemessungswerte Nettolichtstrom = 5270 lm
 Systemleistung = 39.5 W
 Lichtausbeute = 133.4 lm/W

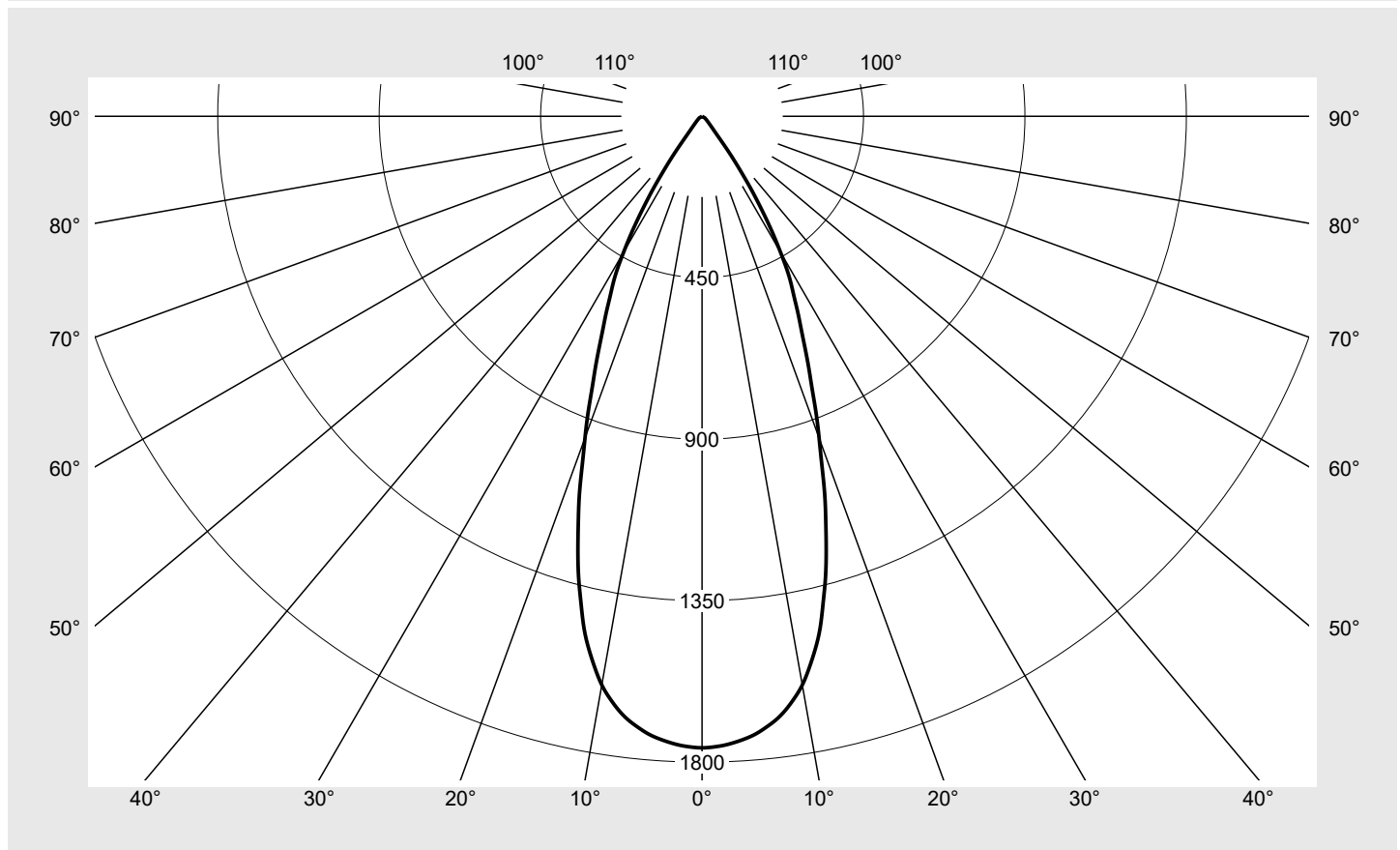
Seriendokumentation
14.02.2023

sITeco

Lichtstärke in cd/klm

C180-0

Imax: 1760 cd/klm



Klassifizierungen

DIN 5040 A 7 0
 CIE N1=96 N2=99 N3=100
 N4=100 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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| Wertetabelle Lichtstärkemessung | Maximale Lichtstärke | siteco |
|--|-----------------------------|---------------|

| C-Ebenen | 0° | Phi-Zone | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| γ | Lichtstärke in cd/klm | Lichtstrom in lm/klm | |
| 0° | 1760.1 | 0.4 | 0.4 |
| 1° | 1758.2 | 3.4 | 3.8 |
| 2° | 1754.1 | 6.7 | 10.5 |
| 3° | 1747.3 | 10.0 | 20.5 |
| 4° | 1738.6 | 13.3 | 33.8 |
| 5° | 1727.5 | 16.5 | 50.3 |
| 6° | 1712.0 | 19.6 | 70.0 |
| 7° | 1694.4 | 22.6 | 92.6 |
| 8° | 1671.3 | 25.5 | 118.1 |
| 9° | 1642.7 | 28.2 | 146.3 |
| 10° | 1609.5 | 30.6 | 176.9 |
| 11° | 1565.8 | 32.8 | 209.7 |
| 12° | 1518.0 | 34.6 | 244.3 |
| 13° | 1463.5 | 36.1 | 280.4 |
| 14° | 1395.9 | 37.0 | 317.5 |
| 15° | 1329.8 | 37.7 | 355.2 |
| 16° | 1255.6 | 38.0 | 393.1 |
| 17° | 1179.7 | 37.8 | 431.0 |
| 18° | 1106.2 | 37.5 | 468.5 |
| 19° | 1025.0 | 36.6 | 505.0 |
| 20° | 954.0 | 35.8 | 540.8 |
| 21° | 887.6 | 34.9 | 575.7 |
| 22° | 818.8 | 33.6 | 609.3 |
| 23° | 761.0 | 32.6 | 642.0 |
| 24° | 704.7 | 31.4 | 673.4 |
| 25° | 653.5 | 30.3 | 703.7 |
| 26° | 609.7 | 29.3 | 733.0 |
| 27° | 565.7 | 28.2 | 761.1 |
| 28° | 528.8 | 27.2 | 788.4 |
| 29° | 487.3 | 25.9 | 814.3 |
| 30° | 436.9 | 24.0 | 838.2 |
| 31° | 388.6 | 21.9 | 860.2 |
| 32° | 338.1 | 19.6 | 879.8 |
| 33° | 288.5 | 17.2 | 897.1 |
| 34° | 242.2 | 14.9 | 911.9 |
| 35° | 194.7 | 12.2 | 924.2 |
| 36° | 154.7 | 10.0 | 934.1 |
| 37° | 117.6 | 7.8 | 941.9 |
| 38° | 85.4 | 5.8 | 947.6 |
| 39° | 64.8 | 4.5 | 952.1 |
| 40° | 52.3 | 3.7 | 955.8 |
| 41° | 44.6 | 3.2 | 959.0 |
| 42° | 38.1 | 2.8 | 961.8 |
| 43° | 33.3 | 2.5 | 964.3 |
| 44° | 29.9 | 2.3 | 966.6 |
| 45° | 26.7 | 2.1 | 968.6 |
| 46° | 24.0 | 1.9 | 970.5 |

| C-Ebenen | 0° | Phi-Zone | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| γ | Lichtstärke in cd/klm | Lichtstrom in lm/klm | |
| 47° | 21.9 | 1.8 | 972.3 |
| 48° | 19.9 | 1.6 | 973.9 |
| 49° | 18.3 | 1.5 | 975.4 |
| 50° | 16.9 | 1.4 | 976.9 |
| 51° | 15.6 | 1.3 | 978.2 |
| 52° | 14.5 | 1.2 | 979.4 |
| 53° | 13.4 | 1.2 | 980.6 |
| 54° | 12.4 | 1.1 | 981.7 |
| 55° | 11.7 | 1.1 | 982.8 |
| 56° | 11.0 | 1.0 | 983.8 |
| 57° | 10.3 | 1.0 | 984.7 |
| 58° | 9.8 | 0.9 | 985.6 |
| 59° | 9.2 | 0.9 | 986.5 |
| 60° | 8.8 | 0.8 | 987.3 |
| 61° | 8.4 | 0.8 | 988.1 |
| 62° | 8.0 | 0.8 | 988.9 |
| 63° | 7.6 | 0.7 | 989.6 |
| 64° | 7.3 | 0.7 | 990.4 |
| 65° | 7.0 | 0.7 | 991.0 |
| 66° | 6.7 | 0.7 | 991.7 |
| 67° | 6.4 | 0.6 | 992.4 |
| 68° | 6.1 | 0.6 | 993.0 |
| 69° | 5.9 | 0.6 | 993.6 |
| 70° | 5.6 | 0.6 | 994.2 |
| 71° | 5.4 | 0.6 | 994.7 |
| 72° | 5.2 | 0.5 | 995.3 |
| 73° | 4.9 | 0.5 | 995.8 |
| 74° | 4.7 | 0.5 | 996.3 |
| 75° | 4.5 | 0.5 | 996.8 |
| 76° | 4.2 | 0.4 | 997.2 |
| 77° | 4.0 | 0.4 | 997.6 |
| 78° | 3.8 | 0.4 | 998.0 |
| 79° | 3.5 | 0.4 | 998.4 |
| 80° | 3.2 | 0.3 | 998.8 |
| 81° | 2.9 | 0.3 | 999.1 |
| 82° | 2.5 | 0.3 | 999.3 |
| 83° | 2.0 | 0.2 | 999.6 |
| 84° | 1.6 | 0.2 | 999.7 |
| 85° | 1.1 | 0.1 | 999.9 |
| 86° | 0.8 | 0.1 | 999.9 |
| 87° | 0.4 | 0.0 | 1000.0 |
| 88° | 0.1 | 0.0 | 1000.0 |
| 89° | 0.0 | 0.0 | 1000.0 |
| 90° | 0.0 | 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 | 21,6 | 22,7 | 22,0 | 23,0 | 23,4 | 21,6 | 22,7 | 22,0 | 23,0 | 23,4 |
| | 3H | 21,7 | 22,6 | 22,1 | 23,0 | 23,3 | 21,7 | 22,6 | 22,1 | 23,0 | 23,3 |
| | 4H | 21,7 | 22,6 | 22,1 | 23,0 | 23,3 | 21,7 | 22,6 | 22,1 | 23,0 | 23,3 |
| | 6H | 21,9 | 22,6 | 22,3 | 23,0 | 23,4 | 21,9 | 22,6 | 22,3 | 23,0 | 23,4 |
| | 8H | 22,0 | 22,6 | 22,4 | 23,0 | 23,4 | 22,0 | 22,6 | 22,4 | 23,0 | 23,4 |
| | 12H | 22,0 | 22,6 | 22,5 | 23,0 | 23,4 | 22,0 | 22,6 | 22,5 | 23,0 | 23,4 |
| 4H | 2H | 21,5 | 22,4 | 21,9 | 22,7 | 23,1 | 21,5 | 22,4 | 21,9 | 22,7 | 23,1 |
| | 3H | 21,6 | 22,3 | 22,0 | 22,7 | 23,1 | 21,6 | 22,3 | 22,0 | 22,7 | 23,1 |
| | 4H | 21,7 | 22,4 | 22,2 | 22,8 | 23,2 | 21,7 | 22,4 | 22,2 | 22,8 | 23,2 |
| | 6H | 21,9 | 22,4 | 22,4 | 22,9 | 23,4 | 21,9 | 22,4 | 22,4 | 22,9 | 23,4 |
| | 8H | 22,0 | 22,5 | 22,5 | 22,9 | 23,4 | 22,0 | 22,5 | 22,5 | 22,9 | 23,4 |
| | 12H | 22,1 | 22,4 | 22,6 | 22,9 | 23,4 | 22,1 | 22,4 | 22,6 | 22,9 | 23,4 |
| 8H | 4H | 21,7 | 22,2 | 22,2 | 22,6 | 23,1 | 21,7 | 22,2 | 22,2 | 22,6 | 23,1 |
| | 6H | 22,0 | 22,4 | 22,5 | 22,8 | 23,4 | 22,0 | 22,4 | 22,5 | 22,8 | 23,4 |
| | 8H | 22,1 | 22,4 | 22,6 | 22,9 | 23,4 | 22,1 | 22,4 | 22,6 | 22,9 | 23,4 |
| | 12H | 22,2 | 22,4 | 22,7 | 22,9 | 23,5 | 22,2 | 22,4 | 22,7 | 22,9 | 23,5 |
| 12H | 4H | 21,8 | 22,1 | 22,3 | 22,6 | 23,1 | 21,8 | 22,1 | 22,3 | 22,6 | 23,1 |
| | 6H | 22,0 | 22,3 | 22,5 | 22,8 | 23,3 | 22,0 | 22,3 | 22,5 | 22,8 | 23,3 |
| | 8H | 22,1 | 22,4 | 22,7 | 22,9 | 23,4 | 22,1 | 22,4 | 22,7 | 22,9 | 23,4 |

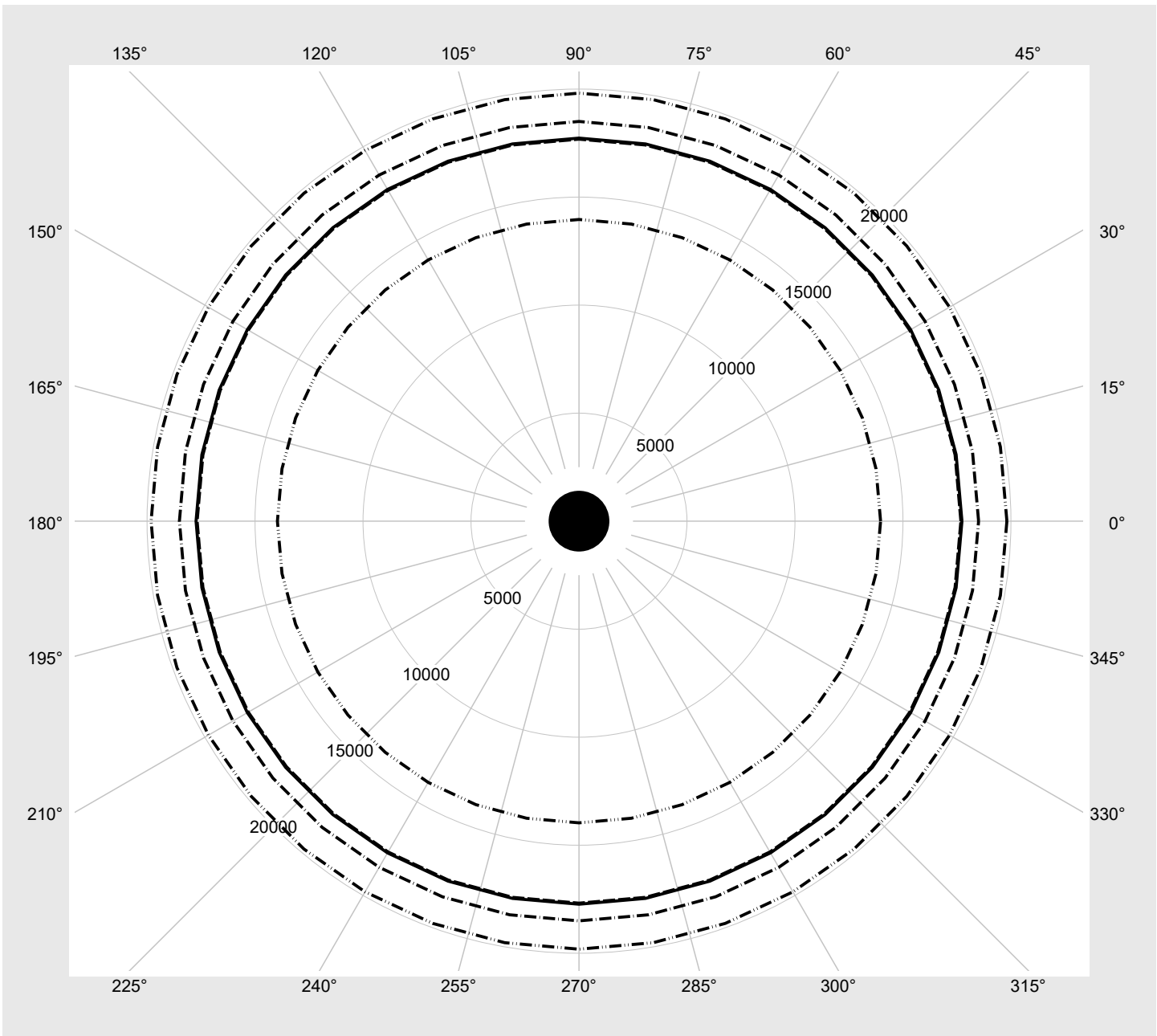
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|------------------------------|---------------------------------|---|
| Leuchtdichten-Tabelle | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: D = 79 |
|------------------------------|---------------------------------|---|

| C-Ebenen | 0° |
|----------|-----------------------------------|
| γ | Leuchtdichte in cd/m ² |
| 45° | 40558.9 |
| 50° | 28192.1 |
| 55° | 21957.4 |
| 60° | 18894.6 |
| 65° | 17731.7 |
| 70° | 17682.2 |
| 75° | 18502.1 |
| 80° | 19812.8 |
| 85° | 13964.2 |

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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| Multilumen-Tabelle | Umgebungstemperatur: 25°C | sITeco |
|---------------------------|---------------------------|---------------|

| DIP-Stufe | Schalterstellung | | | | Lichtstrom [lm] | Systemleistung [W] |
|-----------|------------------|-----|-----|-----|--------------------|-----------------------|
| | 1 | 2 | 3 | 4 | | |
| 15 | ON | ON | ON | ON | 5490 | 41.5 |
| 14 | ON | ON | ON | OFF | 5270 | 39.5 |
| 13 | ON | ON | OFF | ON | 5060 | 37.5 |
| 12 | ON | ON | OFF | OFF | 4840 | 35.5 |
| 11 | ON | OFF | ON | ON | 4580 | 33.4 |
| 10 | ON | OFF | ON | OFF | 4350 | 31.4 |
| 9 | ON | OFF | OFF | ON | 4100 | 29.4 |
| 8 | ON | OFF | OFF | OFF | 3850 | 27.3 |
| 7 | OFF | ON | ON | ON | 3650 | 25.8 |
| 6 | OFF | ON | ON | OFF | 3400 | 23.9 |
| 5 | OFF | ON | OFF | ON | 3140 | 21.9 |
| 4 | OFF | ON | OFF | OFF | 2890 | 20.0 |
| 3 | OFF | OFF | ON | ON | 2570 | 17.8 |
| 2 | OFF | OFF | ON | OFF | 2310 | 15.9 |
| 1 | OFF | OFF | OFF | ON | 2020 | 13.8 |
| 0 | OFF | OFF | OFF | OFF | 1740 | 12.0 |