

Lichttechnischer Prüfbefund

Familie
Spot 31

Bestell-Nr.: 51SF64MAD4B
EAN: 4058352770009

LP-Nummer
59383_6



Ausführung Reflektor, Abdeckung, PC, breit strahlend
Bestückung LED 4000 K | CRI ≥ 90
Betriebsgerät EVG-Multilumen
Einstellung Werkseinstellung: DIP-Stufe=14
Bemessungswerte Nettolichtstrom = 5040 lm
 Systemleistung = 39.2 W
 Lichtausbeute = 128.6 lm/W

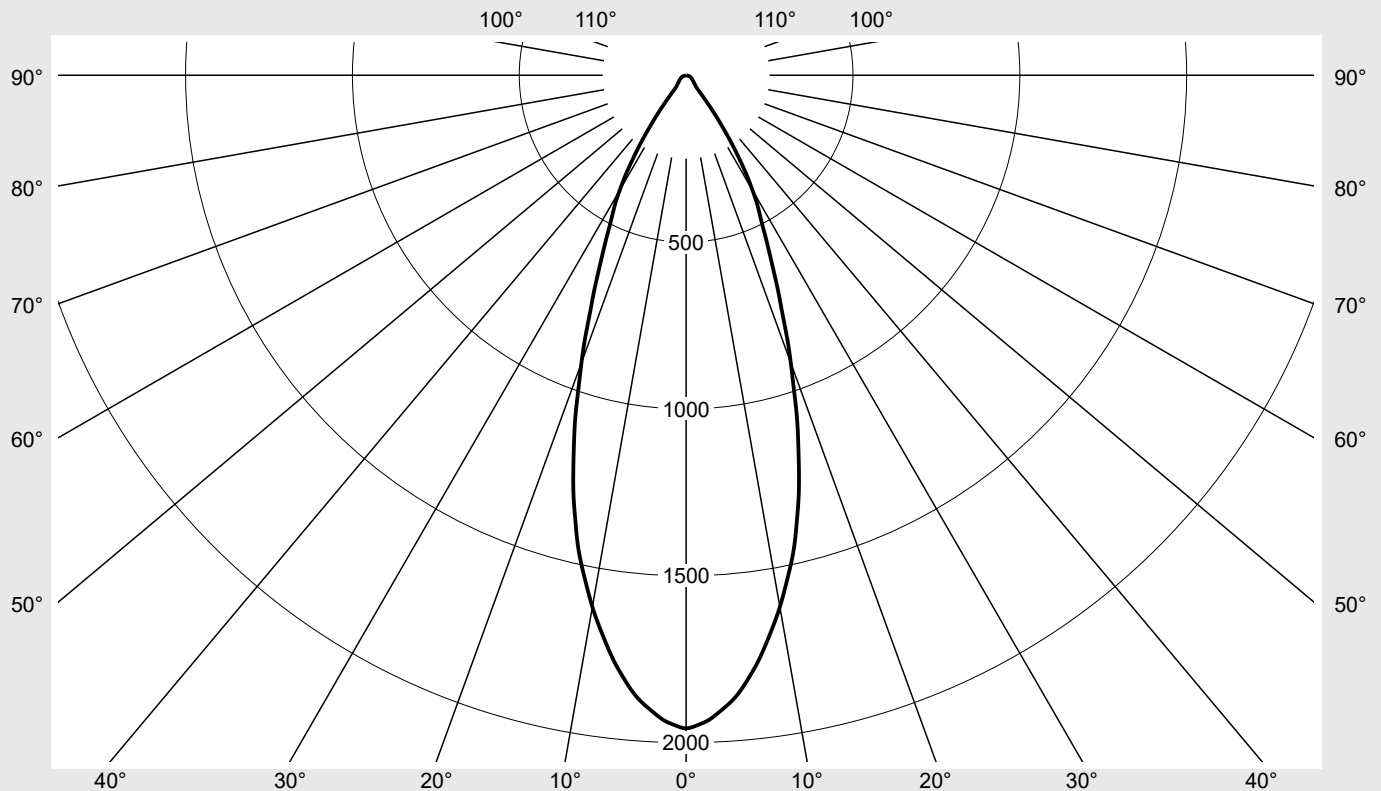
Seriendokumentation
20.01.2023

siteco

Lichtstärke in cd/klm

C180-0

Imax: 1957 cd/klm



Klassifizierungen

DIN 5040 A 7 0
 CIE N1=93 N2=97 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° | 1957.2 | 0.5 | 0.5 |
| 1° | 1947.9 | 3.7 | 4.2 |
| 2° | 1933.7 | 7.4 | 11.6 |
| 3° | 1910.2 | 11.0 | 22.6 |
| 4° | 1885.0 | 14.4 | 37.0 |
| 5° | 1853.1 | 17.7 | 54.7 |
| 6° | 1812.8 | 20.8 | 75.5 |
| 7° | 1769.9 | 23.7 | 99.1 |
| 8° | 1720.6 | 26.3 | 125.4 |
| 9° | 1670.0 | 28.6 | 154.0 |
| 10° | 1618.0 | 30.8 | 184.8 |
| 11° | 1560.5 | 32.7 | 217.5 |
| 12° | 1503.8 | 34.3 | 251.8 |
| 13° | 1443.5 | 35.6 | 287.4 |
| 14° | 1372.9 | 36.4 | 323.8 |
| 15° | 1303.8 | 37.0 | 360.8 |
| 16° | 1226.3 | 37.1 | 397.9 |
| 17° | 1149.0 | 36.8 | 434.7 |
| 18° | 1073.5 | 36.4 | 471.1 |
| 19° | 990.1 | 35.4 | 506.4 |
| 20° | 917.2 | 34.4 | 540.8 |
| 21° | 845.5 | 33.2 | 574.1 |
| 22° | 770.3 | 31.6 | 605.7 |
| 23° | 709.0 | 30.4 | 636.1 |
| 24° | 648.2 | 28.9 | 665.0 |
| 25° | 594.2 | 27.5 | 692.5 |
| 26° | 547.0 | 26.3 | 718.8 |
| 27° | 503.0 | 25.0 | 743.9 |
| 28° | 468.0 | 24.1 | 768.0 |
| 29° | 436.1 | 23.2 | 791.2 |
| 30° | 397.9 | 21.8 | 813.0 |
| 31° | 360.0 | 20.3 | 833.3 |
| 32° | 318.2 | 18.5 | 851.8 |
| 33° | 275.9 | 16.5 | 868.3 |
| 34° | 236.3 | 14.5 | 882.8 |
| 35° | 195.2 | 12.3 | 895.1 |
| 36° | 158.3 | 10.2 | 905.3 |
| 37° | 123.4 | 8.1 | 913.4 |
| 38° | 90.3 | 6.1 | 919.5 |
| 39° | 65.5 | 4.5 | 924.0 |
| 40° | 49.4 | 3.5 | 927.5 |
| 41° | 44.2 | 3.2 | 930.7 |
| 42° | 41.5 | 3.0 | 933.7 |
| 43° | 38.8 | 2.9 | 936.6 |
| 44° | 37.0 | 2.8 | 939.4 |
| 45° | 35.2 | 2.7 | 942.2 |
| 46° | 33.5 | 2.6 | 944.8 |

| C-Ebenen | 0° | Phi-Zone | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| γ | Lichtstärke in cd/klm | Lichtstrom in lm/klm | |
| 47° | 31.9 | 2.6 | 947.4 |
| 48° | 30.5 | 2.5 | 949.8 |
| 49° | 29.1 | 2.4 | 952.3 |
| 50° | 27.9 | 2.3 | 954.6 |
| 51° | 26.6 | 2.3 | 956.9 |
| 52° | 25.6 | 2.2 | 959.1 |
| 53° | 24.6 | 2.2 | 961.2 |
| 54° | 23.5 | 2.1 | 963.3 |
| 55° | 22.7 | 2.0 | 965.4 |
| 56° | 21.8 | 2.0 | 967.3 |
| 57° | 21.0 | 1.9 | 969.3 |
| 58° | 20.3 | 1.9 | 971.1 |
| 59° | 19.5 | 1.8 | 973.0 |
| 60° | 18.8 | 1.8 | 974.8 |
| 61° | 18.2 | 1.7 | 976.5 |
| 62° | 17.5 | 1.7 | 978.2 |
| 63° | 16.9 | 1.7 | 979.9 |
| 64° | 16.2 | 1.6 | 981.5 |
| 65° | 15.6 | 1.6 | 983.0 |
| 66° | 15.1 | 1.5 | 984.5 |
| 67° | 14.5 | 1.5 | 986.0 |
| 68° | 13.8 | 1.4 | 987.4 |
| 69° | 13.2 | 1.3 | 988.7 |
| 70° | 12.5 | 1.3 | 990.0 |
| 71° | 11.9 | 1.2 | 991.3 |
| 72° | 11.2 | 1.2 | 992.4 |
| 73° | 10.5 | 1.1 | 993.5 |
| 74° | 9.7 | 1.0 | 994.6 |
| 75° | 8.8 | 0.9 | 995.5 |
| 76° | 7.7 | 0.8 | 996.3 |
| 77° | 6.2 | 0.7 | 997.0 |
| 78° | 5.2 | 0.6 | 997.5 |
| 79° | 4.6 | 0.5 | 998.0 |
| 80° | 4.0 | 0.4 | 998.5 |
| 81° | 3.5 | 0.4 | 998.8 |
| 82° | 3.0 | 0.3 | 999.2 |
| 83° | 2.4 | 0.3 | 999.4 |
| 84° | 1.9 | 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 | 22,2 | 23,3 | 22,6 | 23,7 | 24,0 | 22,2 | 23,3 | 22,6 | 23,7 | 24,0 |
| | 3H | 22,9 | 23,8 | 23,2 | 24,2 | 24,5 | 22,9 | 23,8 | 23,2 | 24,2 | 24,5 |
| | 4H | 23,2 | 24,1 | 23,6 | 24,4 | 24,8 | 23,2 | 24,1 | 23,6 | 24,4 | 24,8 |
| | 6H | 23,3 | 24,1 | 23,7 | 24,5 | 24,9 | 23,3 | 24,1 | 23,7 | 24,5 | 24,9 |
| | 8H | 23,5 | 24,1 | 23,9 | 24,5 | 24,9 | 23,5 | 24,1 | 23,9 | 24,5 | 24,9 |
| | 12H | 23,5 | 24,0 | 23,9 | 24,4 | 24,9 | 23,5 | 24,0 | 23,9 | 24,4 | 24,9 |
| 4H | 2H | 22,4 | 23,3 | 22,8 | 23,6 | 24,0 | 22,4 | 23,3 | 22,8 | 23,6 | 24,0 |
| | 3H | 23,2 | 23,9 | 23,6 | 24,3 | 24,7 | 23,2 | 23,9 | 23,6 | 24,3 | 24,7 |
| | 4H | 23,6 | 24,3 | 24,1 | 24,7 | 25,1 | 23,6 | 24,3 | 24,1 | 24,7 | 25,1 |
| | 6H | 23,8 | 24,4 | 24,3 | 24,8 | 25,3 | 23,8 | 24,4 | 24,3 | 24,8 | 25,3 |
| | 8H | 23,9 | 24,4 | 24,4 | 24,8 | 25,3 | 23,9 | 24,4 | 24,4 | 24,8 | 25,3 |
| | 12H | 23,9 | 24,3 | 24,4 | 24,8 | 25,3 | 23,9 | 24,3 | 24,4 | 24,8 | 25,3 |
| 8H | 4H | 23,7 | 24,2 | 24,2 | 24,7 | 25,2 | 23,7 | 24,2 | 24,2 | 24,7 | 25,2 |
| | 6H | 24,0 | 24,4 | 24,5 | 24,8 | 25,4 | 24,0 | 24,4 | 24,5 | 24,8 | 25,4 |
| | 8H | 24,0 | 24,4 | 24,6 | 24,9 | 25,4 | 24,0 | 24,4 | 24,6 | 24,9 | 25,4 |
| | 12H | 24,1 | 24,4 | 24,6 | 24,9 | 25,4 | 24,1 | 24,4 | 24,6 | 24,9 | 25,4 |
| 12H | 4H | 23,7 | 24,1 | 24,2 | 24,6 | 25,1 | 23,7 | 24,1 | 24,2 | 24,6 | 25,1 |
| | 6H | 24,0 | 24,3 | 24,5 | 24,8 | 25,3 | 24,0 | 24,3 | 24,5 | 24,8 | 25,3 |
| | 8H | 24,1 | 24,3 | 24,6 | 24,8 | 25,4 | 24,1 | 24,3 | 24,6 | 24,8 | 25,4 |

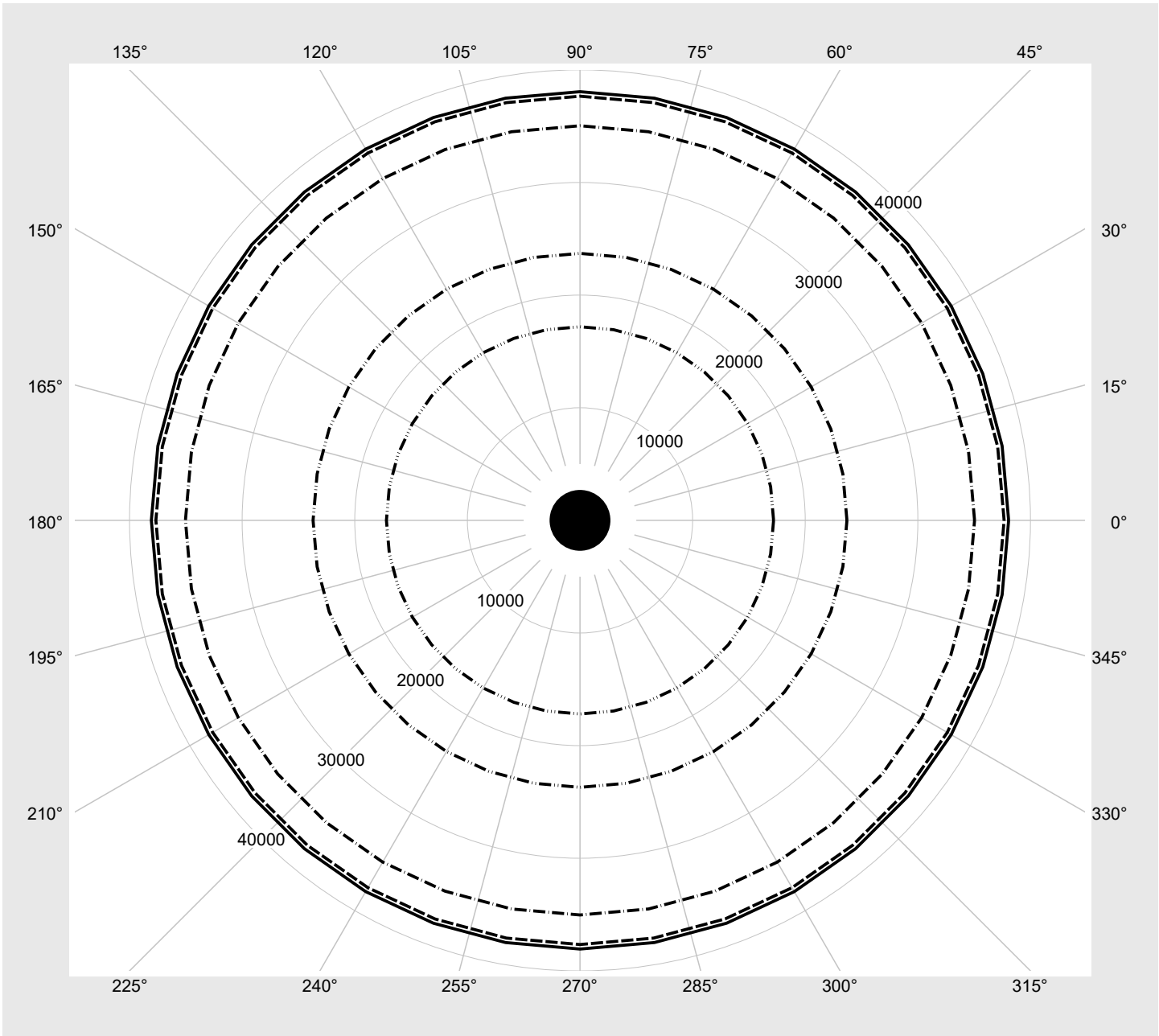
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ Lichttechnische Abmessungen in mm: D = 79

| C-Ebenen | 0° |
|----------|-----------------------------------|
| γ | Leuchtdichte in cd/m ² |
| 45° | 51127.0 |
| 50° | 44570.4 |
| 55° | 40686.0 |
| 60° | 38685.8 |
| 65° | 38061.5 |
| 70° | 37660.1 |
| 75° | 35035.6 |
| 80° | 23702.9 |
| 85° | 17189.0 |

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



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Multilumen-Tabelle

Umgebungstemperatur: 25°C



| DIP-Stufe | Schalterstellung | | | | Lichtstrom [lm] | Systemleistung [W] |
|-----------|------------------|-----|-----|-----|--------------------|-----------------------|
| | 1 | 2 | 3 | 4 | | |
| 15 | ON | ON | ON | ON | 5250 | 41.4 |
| 14 | ON | ON | ON | OFF | 5040 | 39.2 |
| 13 | ON | ON | OFF | ON | 4830 | 36.9 |
| 12 | ON | ON | OFF | OFF | 4520 | 34.5 |
| 11 | ON | OFF | ON | ON | 4410 | 33.4 |
| 10 | ON | OFF | ON | OFF | 4180 | 31.4 |
| 9 | ON | OFF | OFF | ON | 3930 | 29.4 |
| 8 | ON | OFF | OFF | OFF | 3720 | 27.4 |
| 7 | OFF | ON | ON | ON | 3500 | 25.8 |
| 6 | OFF | ON | ON | OFF | 3260 | 23.9 |
| 5 | OFF | ON | OFF | ON | 3020 | 21.8 |
| 4 | OFF | ON | OFF | OFF | 2780 | 19.9 |
| 3 | OFF | OFF | ON | ON | 2500 | 17.7 |
| 2 | OFF | OFF | ON | OFF | 2240 | 15.8 |
| 1 | OFF | OFF | OFF | ON | 1880 | 13.8 |
| 0 | OFF | OFF | OFF | OFF | 1620 | 11.9 |