

Lichttechnischer Prüfbefund

Familie
Spot 31

Bestell-Nr.: 51SF63MAD4B
EAN: 4058352769980

LP-Nummer
59382_6



Ausführung Reflektor, Abdeckung, PC, medium strahlend
Bestückung LED 4000 K | CRI ≥ 90
Betriebsgerät EVG-Multilumen
Einstellung Werkseinstellung: DIP-Stufe=14
Bemessungswerte Nettolichtstrom = 4980 lm
 Systemleistung = 39.4 W
 Lichtausbeute = 126.4 lm/W

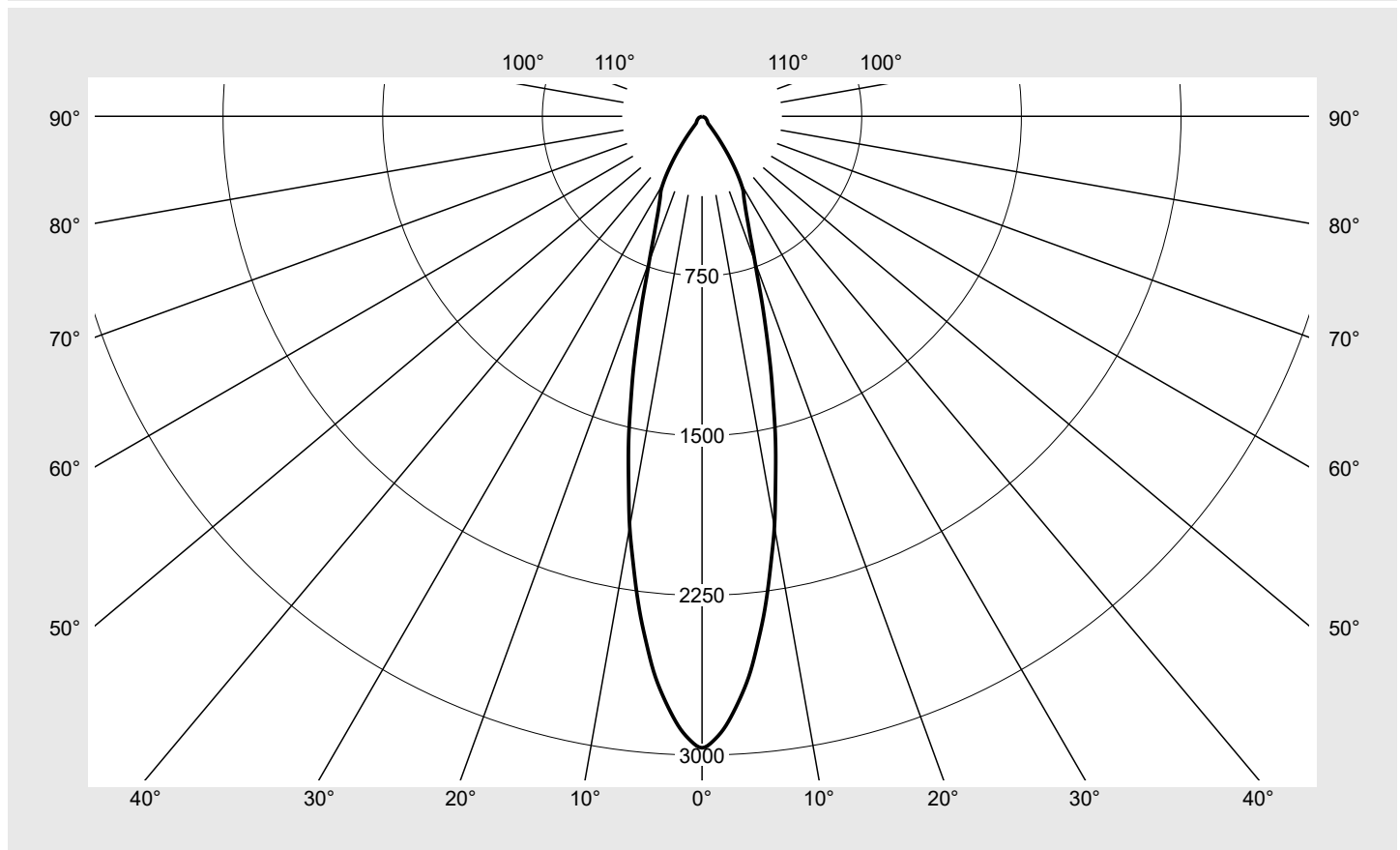
Seriendokumentation
20.01.2023

siteco

Lichtstärke in cd/klm

C180-0

Imax: 2966 cd/klm



Klassifizierungen

DIN 5040 A 7 0
 CIE N1=92 N2=97 N3=99
 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 | C-Ebenen | 0° | Phi-Zone | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|----------|-----------------------|----------------------|----------------|
| γ | Lichtstärke in cd/klm | Lichtstrom in lm/klm | | γ | Lichtstärke in cd/klm | Lichtstrom in lm/klm | |
| 0° | 2966.0 | 0.7 | 0.7 | 47° | 33.8 | 2.7 | 940.0 |
| 1° | 2935.3 | 5.6 | 6.3 | 48° | 32.6 | 2.7 | 942.7 |
| 2° | 2880.8 | 11.0 | 17.4 | 49° | 31.6 | 2.6 | 945.3 |
| 3° | 2803.7 | 16.1 | 33.4 | 50° | 30.5 | 2.6 | 947.8 |
| 4° | 2715.9 | 20.8 | 54.2 | 51° | 29.3 | 2.5 | 950.3 |
| 5° | 2615.6 | 25.0 | 79.2 | 52° | 28.6 | 2.5 | 952.8 |
| 6° | 2492.2 | 28.6 | 107.8 | 53° | 27.2 | 2.4 | 955.2 |
| 7° | 2367.9 | 31.6 | 139.4 | 54° | 26.0 | 2.3 | 957.5 |
| 8° | 2231.3 | 34.1 | 173.5 | 55° | 25.2 | 2.3 | 959.7 |
| 9° | 2091.5 | 35.9 | 209.4 | 56° | 24.0 | 2.2 | 961.9 |
| 10° | 1957.8 | 37.3 | 246.6 | 57° | 22.7 | 2.1 | 964.0 |
| 11° | 1804.9 | 37.8 | 284.4 | 58° | 22.0 | 2.0 | 966.1 |
| 12° | 1664.3 | 37.9 | 322.4 | 59° | 20.9 | 2.0 | 968.0 |
| 13° | 1528.2 | 37.7 | 360.1 | 60° | 20.3 | 1.9 | 970.0 |
| 14° | 1383.5 | 36.7 | 396.8 | 61° | 19.0 | 1.8 | 971.8 |
| 15° | 1255.3 | 35.6 | 432.4 | 62° | 18.6 | 1.8 | 973.6 |
| 16° | 1127.0 | 34.1 | 466.5 | 63° | 17.5 | 1.7 | 975.3 |
| 17° | 1009.5 | 32.4 | 498.8 | 64° | 16.9 | 1.7 | 977.0 |
| 18° | 903.9 | 30.6 | 529.4 | 65° | 16.1 | 1.6 | 978.6 |
| 19° | 802.9 | 28.7 | 558.1 | 66° | 15.7 | 1.6 | 980.1 |
| 20° | 726.0 | 27.2 | 585.3 | 67° | 14.9 | 1.5 | 981.6 |
| 21° | 660.5 | 26.0 | 611.3 | 68° | 14.5 | 1.5 | 983.1 |
| 22° | 603.1 | 24.8 | 636.1 | 69° | 13.8 | 1.4 | 984.5 |
| 23° | 558.2 | 23.9 | 660.0 | 70° | 13.7 | 1.4 | 985.9 |
| 24° | 518.6 | 23.1 | 683.1 | 71° | 12.9 | 1.3 | 987.3 |
| 25° | 485.6 | 22.5 | 705.6 | 72° | 12.3 | 1.3 | 988.6 |
| 26° | 458.6 | 22.0 | 727.7 | 73° | 11.8 | 1.2 | 989.8 |
| 27° | 434.7 | 21.6 | 749.3 | 74° | 11.2 | 1.2 | 991.0 |
| 28° | 416.1 | 21.4 | 770.7 | 75° | 10.5 | 1.1 | 992.1 |
| 29° | 397.5 | 21.1 | 791.9 | 76° | 9.7 | 1.0 | 993.1 |
| 30° | 368.6 | 20.2 | 812.1 | 77° | 8.3 | 0.9 | 994.0 |
| 31° | 335.4 | 18.9 | 831.0 | 78° | 7.2 | 0.8 | 994.8 |
| 32° | 298.6 | 17.4 | 848.4 | 79° | 6.7 | 0.7 | 995.5 |
| 33° | 261.5 | 15.6 | 864.0 | 80° | 6.4 | 0.7 | 996.2 |
| 34° | 225.0 | 13.8 | 877.8 | 81° | 5.7 | 0.6 | 996.8 |
| 35° | 185.8 | 11.7 | 889.5 | 82° | 5.0 | 0.5 | 997.3 |
| 36° | 149.8 | 9.7 | 899.1 | 83° | 4.7 | 0.5 | 997.9 |
| 37° | 117.2 | 7.7 | 906.9 | 84° | 4.0 | 0.4 | 998.3 |
| 38° | 85.2 | 5.8 | 912.6 | 85° | 3.5 | 0.4 | 998.7 |
| 39° | 61.6 | 4.2 | 916.9 | 86° | 3.2 | 0.4 | 999.0 |
| 40° | 45.9 | 3.2 | 920.1 | 87° | 2.7 | 0.3 | 999.3 |
| 41° | 41.9 | 3.0 | 923.1 | 88° | 2.6 | 0.3 | 999.6 |
| 42° | 40.0 | 2.9 | 926.1 | 89° | 2.4 | 0.3 | 999.9 |
| 43° | 37.9 | 2.8 | 928.9 | 90° | 2.4 | 0.3 | 1000.1 |
| 44° | 37.0 | 2.8 | 931.7 | | | | |
| 45° | 36.2 | 2.8 | 934.5 | | | | |
| 46° | 35.1 | 2.8 | 937.3 | | | | |

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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 | 22,5 | 23,6 | 23,9 | 22,2 | 23,3 | 22,5 | 23,6 | 23,9 |
| | 3H | 22,9 | 23,8 | 23,3 | 24,2 | 24,5 | 22,9 | 23,8 | 23,3 | 24,2 | 24,5 |
| | 4H | 23,3 | 24,2 | 23,7 | 24,5 | 24,9 | 23,3 | 24,2 | 23,7 | 24,5 | 24,9 |
| | 6H | 23,7 | 24,4 | 24,1 | 24,8 | 25,2 | 23,7 | 24,4 | 24,1 | 24,8 | 25,2 |
| | 8H | 23,9 | 24,5 | 24,3 | 24,9 | 25,3 | 23,9 | 24,5 | 24,3 | 24,9 | 25,3 |
| | 12H | 24,0 | 24,6 | 24,4 | 25,0 | 25,4 | 24,0 | 24,6 | 24,4 | 25,0 | 25,4 |
| 4H | 2H | 22,3 | 23,2 | 22,7 | 23,6 | 23,9 | 22,3 | 23,2 | 22,7 | 23,6 | 23,9 |
| | 3H | 23,3 | 24,0 | 23,7 | 24,4 | 24,8 | 23,3 | 24,0 | 23,7 | 24,4 | 24,8 |
| | 4H | 23,9 | 24,5 | 24,3 | 24,9 | 25,4 | 23,9 | 24,5 | 24,3 | 24,9 | 25,4 |
| | 6H | 24,3 | 24,8 | 24,8 | 25,3 | 25,8 | 24,3 | 24,8 | 24,8 | 25,3 | 25,8 |
| | 8H | 24,5 | 25,0 | 25,0 | 25,4 | 25,9 | 24,5 | 25,0 | 25,0 | 25,4 | 25,9 |
| | 12H | 24,7 | 25,1 | 25,2 | 25,6 | 26,1 | 24,7 | 25,1 | 25,2 | 25,6 | 26,1 |
| 8H | 4H | 24,1 | 24,5 | 24,5 | 25,0 | 25,5 | 24,1 | 24,5 | 24,5 | 25,0 | 25,5 |
| | 6H | 24,6 | 25,0 | 25,1 | 25,5 | 26,0 | 24,6 | 25,0 | 25,1 | 25,5 | 26,0 |
| | 8H | 24,9 | 25,2 | 25,4 | 25,7 | 26,2 | 24,9 | 25,2 | 25,4 | 25,7 | 26,2 |
| | 12H | 25,2 | 25,4 | 25,7 | 25,9 | 26,5 | 25,2 | 25,4 | 25,7 | 25,9 | 26,5 |
| 12H | 4H | 24,1 | 24,5 | 24,6 | 24,9 | 25,4 | 24,1 | 24,5 | 24,6 | 24,9 | 25,4 |
| | 6H | 24,7 | 25,0 | 25,2 | 25,5 | 26,0 | 24,7 | 25,0 | 25,2 | 25,5 | 26,0 |
| | 8H | 25,0 | 25,2 | 25,5 | 25,8 | 26,3 | 25,0 | 25,2 | 25,5 | 25,8 | 26,3 |

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

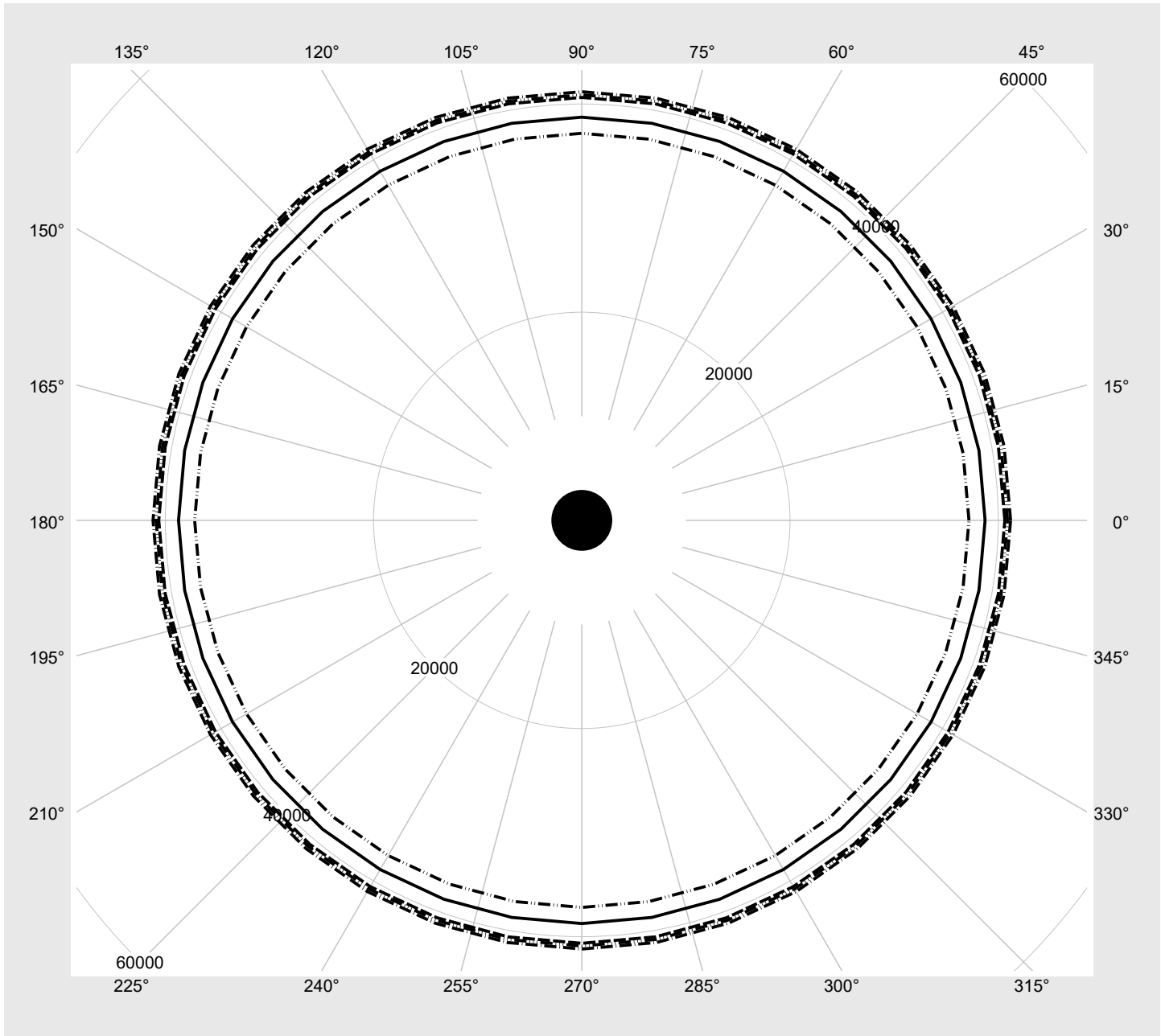
| C-Ebenen | 0° |
|----------|-----------------------------------|
| γ | Leuchtdichte in cd/m ² |
| 45° | 51989.6 |
| 50° | 48141.4 |
| 55° | 44596.2 |
| 60° | 41259.0 |
| 65° | 38735.9 |
| 70° | 40633.8 |
| 75° | 41185.8 |
| 80° | 37187.7 |
| 85° | 40893.0 |

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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 | sITeco |
|---------------------------|---------------------------|---------------|

| DIP-Stufe | Schalterstellung | | | | Lichtstrom [lm] | Systemleistung [W] |
|-----------|------------------|-----|-----|-----|--------------------|-----------------------|
| | 1 | 2 | 3 | 4 | | |
| 15 | ON | ON | ON | ON | 5190 | 41.5 |
| 14 | ON | ON | ON | OFF | 4980 | 39.4 |
| 13 | ON | ON | OFF | ON | 4780 | 37.4 |
| 12 | ON | ON | OFF | OFF | 4540 | 35.3 |
| 11 | ON | OFF | ON | ON | 4360 | 33.4 |
| 10 | ON | OFF | ON | OFF | 4130 | 31.4 |
| 9 | ON | OFF | OFF | ON | 3880 | 29.4 |
| 8 | ON | OFF | OFF | OFF | 3680 | 27.3 |
| 7 | OFF | ON | ON | ON | 3470 | 25.8 |
| 6 | OFF | ON | ON | OFF | 3220 | 23.9 |
| 5 | OFF | ON | OFF | ON | 2990 | 21.8 |
| 4 | OFF | ON | OFF | OFF | 2740 | 19.9 |
| 3 | OFF | OFF | ON | ON | 2470 | 17.7 |
| 2 | OFF | OFF | ON | OFF | 2210 | 15.9 |
| 1 | OFF | OFF | OFF | ON | 1860 | 13.8 |
| 0 | OFF | OFF | OFF | OFF | 1600 | 11.9 |