

Lichttechnischer Prüfbefund

Familie
Spot 21 Modario®

Bestell-Nr.: 51SM14DB11B2C
EAN: 4069025531421

LP-Nummer
59886_16



Ausführung Reflektor, Abdeckung, PC, rotationssymmetrisch, breit strahlend

Bestückung LED 3000 K | CRI ≥ 90

Betriebsgerät EVG-DALI-Multilumen

Einstellung Werkseinstellung: DIP-Stufe=10

Bemessungswerte Nettolichtstrom = 4010 lm
Systemleistung = 30.9 W
Lichtausbeute = 129.8 lm/W

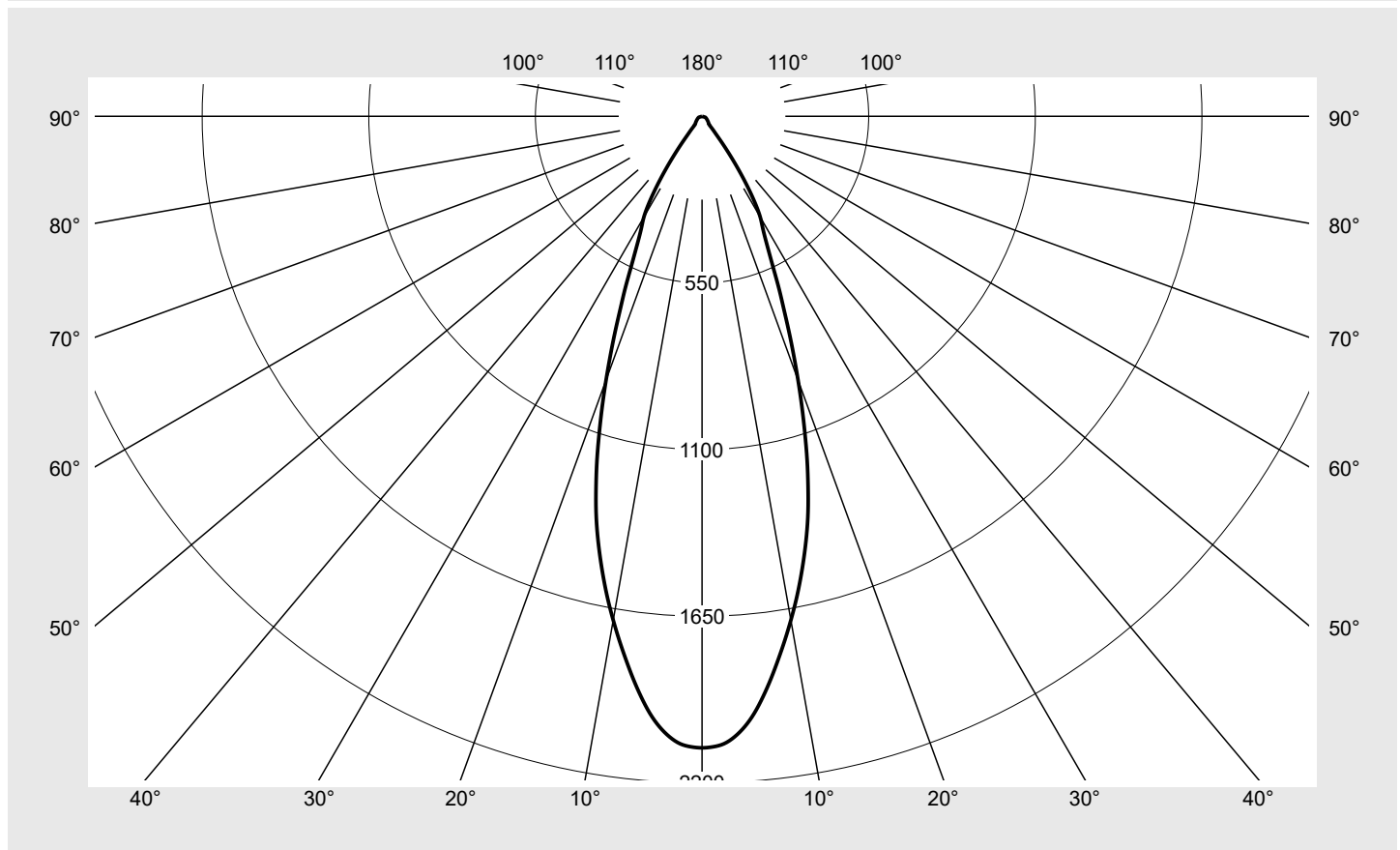
Seriendokumentation
21.05.2026

sITeco

Lichtstärke in cd/klm

C180-0

Imax: 2084 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=93 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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| | | |
|------------------------------------|--|-------------------------------------|
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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° | 2084.2 | 0.5 | 0.5 |
| 1° | 2081.2 | 4.0 | 4.5 |
| 2° | 2072.1 | 7.9 | 12.4 |
| 3° | 2050.8 | 11.8 | 24.2 |
| 4° | 2019.3 | 15.4 | 39.6 |
| 5° | 1977.7 | 18.9 | 58.5 |
| 6° | 1925.9 | 22.1 | 80.6 |
| 7° | 1869.1 | 25.0 | 105.6 |
| 8° | 1809.3 | 27.6 | 133.2 |
| 9° | 1749.4 | 30.0 | 163.2 |
| 10° | 1688.5 | 32.2 | 195.4 |
| 11° | 1626.6 | 34.0 | 229.4 |
| 12° | 1561.7 | 35.6 | 265.0 |
| 13° | 1494.7 | 36.9 | 301.9 |
| 14° | 1425.7 | 37.8 | 339.7 |
| 15° | 1351.6 | 38.4 | 378.1 |
| 16° | 1269.4 | 38.4 | 416.4 |
| 17° | 1186.2 | 38.0 | 454.5 |
| 18° | 1097.9 | 37.2 | 491.7 |
| 19° | 1011.8 | 36.1 | 527.8 |
| 20° | 926.4 | 34.7 | 562.5 |
| 21° | 843.7 | 33.2 | 595.7 |
| 22° | 765.0 | 31.4 | 627.1 |
| 23° | 690.3 | 29.6 | 656.7 |
| 24° | 626.6 | 27.9 | 684.6 |
| 25° | 563.1 | 26.1 | 710.7 |
| 26° | 510.4 | 24.5 | 735.3 |
| 27° | 467.8 | 23.3 | 758.6 |
| 28° | 433.7 | 22.3 | 780.9 |
| 29° | 407.7 | 21.7 | 802.6 |
| 30° | 384.1 | 21.1 | 823.6 |
| 31° | 352.2 | 19.9 | 843.5 |
| 32° | 313.7 | 18.2 | 861.7 |
| 33° | 272.0 | 16.2 | 878.0 |
| 34° | 229.5 | 14.1 | 892.1 |
| 35° | 187.4 | 11.8 | 903.9 |
| 36° | 146.9 | 9.5 | 913.3 |
| 37° | 109.3 | 7.2 | 920.5 |
| 38° | 76.0 | 5.1 | 925.7 |
| 39° | 57.5 | 4.0 | 929.6 |
| 40° | 39.2 | 2.8 | 932.4 |
| 41° | 36.2 | 2.6 | 935.0 |
| 42° | 33.7 | 2.5 | 937.5 |
| 43° | 32.3 | 2.4 | 939.9 |
| 44° | 31.1 | 2.4 | 942.3 |
| 45° | 29.8 | 2.3 | 944.6 |
| 46° | 28.8 | 2.3 | 946.8 |

| C-Ebenen | 0° | Phi-Zone | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| γ | Lichtstärke in cd/klm | Lichtstrom in lm/klm | |
| 47° | 27.8 | 2.2 | 949.1 |
| 48° | 26.8 | 2.2 | 951.3 |
| 49° | 25.9 | 2.1 | 953.4 |
| 50° | 24.9 | 2.1 | 955.5 |
| 51° | 24.0 | 2.0 | 957.5 |
| 52° | 23.1 | 2.0 | 959.5 |
| 53° | 22.3 | 2.0 | 961.5 |
| 54° | 21.5 | 1.9 | 963.4 |
| 55° | 20.8 | 1.9 | 965.3 |
| 56° | 20.0 | 1.8 | 967.1 |
| 57° | 19.4 | 1.8 | 968.9 |
| 58° | 18.7 | 1.7 | 970.6 |
| 59° | 18.1 | 1.7 | 972.3 |
| 60° | 17.5 | 1.7 | 974.0 |
| 61° | 17.0 | 1.6 | 975.6 |
| 62° | 16.4 | 1.6 | 977.2 |
| 63° | 15.9 | 1.6 | 978.8 |
| 64° | 15.4 | 1.5 | 980.3 |
| 65° | 14.9 | 1.5 | 981.8 |
| 66° | 14.4 | 1.4 | 983.2 |
| 67° | 13.9 | 1.4 | 984.6 |
| 68° | 13.4 | 1.4 | 986.0 |
| 69° | 12.9 | 1.3 | 987.3 |
| 70° | 12.4 | 1.3 | 988.6 |
| 71° | 11.9 | 1.2 | 989.8 |
| 72° | 11.4 | 1.2 | 991.0 |
| 73° | 10.9 | 1.1 | 992.1 |
| 74° | 10.4 | 1.1 | 993.2 |
| 75° | 9.7 | 1.0 | 994.3 |
| 76° | 9.0 | 1.0 | 995.2 |
| 77° | 7.5 | 0.8 | 996.0 |
| 78° | 6.3 | 0.7 | 996.7 |
| 79° | 5.7 | 0.6 | 997.3 |
| 80° | 5.0 | 0.5 | 997.9 |
| 81° | 4.4 | 0.5 | 998.3 |
| 82° | 3.8 | 0.4 | 998.7 |
| 83° | 3.2 | 0.3 | 999.1 |
| 84° | 2.6 | 0.3 | 999.4 |
| 85° | 2.1 | 0.2 | 999.6 |
| 86° | 1.6 | 0.2 | 999.8 |
| 87° | 1.1 | 0.1 | 999.9 |
| 88° | 0.7 | 0.1 | 1000.0 |
| 89° | 0.2 | 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 | 20,6 | 21,7 | 20,9 | 22,0 | 22,3 | 20,6 | 21,7 | 20,9 | 22,0 | 22,3 |
| | 3H | 21,2 | 22,2 | 21,6 | 22,5 | 22,9 | 21,2 | 22,2 | 21,6 | 22,5 | 22,9 |
| | 4H | 21,7 | 22,5 | 22,1 | 22,9 | 23,3 | 21,7 | 22,5 | 22,1 | 22,9 | 23,3 |
| | 6H | 21,9 | 22,7 | 22,3 | 23,1 | 23,5 | 21,9 | 22,7 | 22,3 | 23,1 | 23,5 |
| | 8H | 22,1 | 22,7 | 22,5 | 23,1 | 23,5 | 22,1 | 22,7 | 22,5 | 23,1 | 23,5 |
| | 12H | 22,1 | 22,7 | 22,6 | 23,1 | 23,5 | 22,1 | 22,7 | 22,6 | 23,1 | 23,5 |
| 4H | 2H | 20,7 | 21,6 | 21,1 | 21,9 | 22,3 | 20,7 | 21,6 | 21,1 | 21,9 | 22,3 |
| | 3H | 21,6 | 22,3 | 22,0 | 22,7 | 23,1 | 21,6 | 22,3 | 22,0 | 22,7 | 23,1 |
| | 4H | 22,2 | 22,8 | 22,6 | 23,2 | 23,7 | 22,2 | 22,8 | 22,6 | 23,2 | 23,7 |
| | 6H | 22,5 | 23,1 | 23,0 | 23,5 | 24,0 | 22,5 | 23,1 | 23,0 | 23,5 | 24,0 |
| | 8H | 22,6 | 23,1 | 23,1 | 23,6 | 24,1 | 22,6 | 23,1 | 23,1 | 23,6 | 24,1 |
| | 12H | 22,7 | 23,1 | 23,2 | 23,6 | 24,1 | 22,7 | 23,1 | 23,2 | 23,6 | 24,1 |
| 8H | 4H | 22,4 | 22,8 | 22,8 | 23,3 | 23,8 | 22,4 | 22,8 | 22,8 | 23,3 | 23,8 |
| | 6H | 22,8 | 23,2 | 23,3 | 23,6 | 24,2 | 22,8 | 23,2 | 23,3 | 23,6 | 24,2 |
| | 8H | 22,9 | 23,3 | 23,4 | 23,8 | 24,3 | 22,9 | 23,3 | 23,4 | 23,8 | 24,3 |
| | 12H | 23,1 | 23,3 | 23,6 | 23,8 | 24,4 | 23,1 | 23,3 | 23,6 | 23,8 | 24,4 |
| 12H | 4H | 22,4 | 22,7 | 22,9 | 23,2 | 23,7 | 22,4 | 22,7 | 22,9 | 23,2 | 23,7 |
| | 6H | 22,8 | 23,1 | 23,3 | 23,6 | 24,1 | 22,8 | 23,1 | 23,3 | 23,6 | 24,1 |
| | 8H | 23,0 | 23,2 | 23,5 | 23,8 | 24,3 | 23,0 | 23,2 | 23,5 | 23,8 | 24,3 |

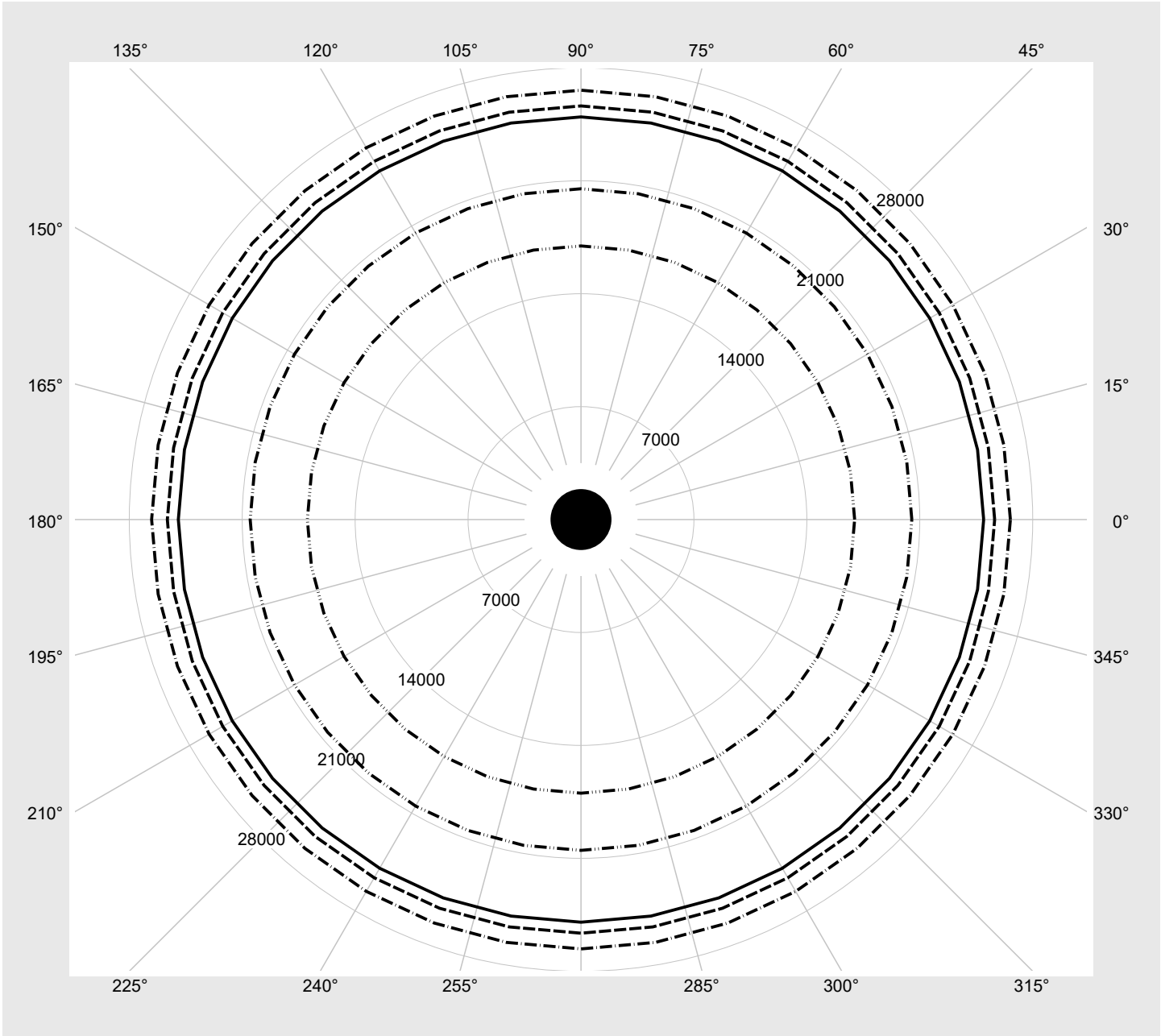
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ Lichttechnische Abmessungen in mm: D = 85

| C-Ebenen | 0° |
|----------|---------------------------------|
| γ | Leuchtdichte in cd/m^2 |
| 45° | 29784.6 |
| 50° | 27342.8 |
| 55° | 25615.4 |
| 60° | 24725.0 |
| 65° | 24959.8 |
| 70° | 25641.1 |
| 75° | 26615.6 |
| 80° | 20506.5 |
| 85° | 16962.2 |

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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 | 5080 | 41.4 |
| 14 | ON | ON | ON | OFF | 4830 | 39.2 |
| 13 | ON | ON | OFF | ON | 4630 | 37.0 |
| 12 | ON | ON | OFF | OFF | 4430 | 35.0 |
| 11 | ON | OFF | ON | ON | 4230 | 33.0 |
| 10 | ON | OFF | ON | OFF | 4010 | 30.9 |
| 9 | ON | OFF | OFF | ON | 3790 | 28.9 |
| 8 | ON | OFF | OFF | OFF | 3570 | 26.9 |
| 7 | OFF | ON | ON | ON | 3340 | 24.9 |
| 6 | OFF | ON | ON | OFF | 3110 | 22.9 |
| 5 | OFF | ON | OFF | ON | 2870 | 20.9 |
| 4 | OFF | ON | OFF | OFF | 2630 | 19.0 |
| 3 | OFF | OFF | ON | ON | 2390 | 17.2 |
| 2 | OFF | OFF | ON | OFF | 2140 | 15.3 |
| 1 | OFF | OFF | OFF | ON | 1890 | 13.5 |
| 0 | OFF | OFF | OFF | OFF | 1650 | 11.7 |