

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HN12DB4LBA
EAN: 4069025440549

LP-Nummer
59710_350



Ausführung primäre Lichtlenkung mit Linse, PMMA, Gehäuse, weiß, breit strahlend

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Einstellung AC-Betrieb

Bemessungswerte Nettolichtstrom = 26000 lm
Systemleistung = 125.4 W
Lichtausbeute = 207.3 lm/W

Seriendokumentation
18.03.2025

siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 772 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=88 N2=98 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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|--|---|-------------------------------|
| Familie Highbay 11 | Bestell-Nr.: 51HN12DB4LBA EAN: 4069025440549 | LP-Nummer 59710_350 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
| | | siteco |

| C- Ebenen | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | Phi-Zone | Summe | |
|-----------------------|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|----------|----------|--------|
| | | | | | | | | | Phi-Zone | |
| γ | | | | | | | | | | |
| Lichtstärke in cd/klm | | | | | | | | | | |
| Lichtstrom in lm/klm | | | | | | | | | | |
| 0,0° | 643.6 | 643.6 | 643.6 | 643.6 | 643.6 | 643.6 | 643.6 | 1.0 | 1.0 | 1.0 |
| 2,5° | 644.5 | 645.1 | 645.0 | 644.3 | 644.2 | 643.7 | 641.7 | 7.7 | 8.7 | 8.7 |
| 5,0° | 651.5 | 652.3 | 650.7 | 647.5 | 645.3 | 643.2 | 640.4 | 15.5 | 24.1 | 24.1 |
| 7,5° | 669.6 | 669.1 | 664.2 | 657.2 | 651.2 | 645.8 | 641.3 | 23.5 | 47.6 | 47.6 |
| 10,0° | 693.4 | 691.0 | 681.5 | 670.0 | 659.9 | 651.2 | 645.8 | 31.9 | 79.6 | 79.6 |
| 12,5° | 711.8 | 709.4 | 700.3 | 685.9 | 671.9 | 660.7 | 654.0 | 40.7 | 120.2 | 120.2 |
| 15,0° | 721.3 | 721.7 | 717.1 | 704.9 | 689.4 | 675.9 | 667.7 | 49.7 | 169.9 | 169.9 |
| 17,5° | 743.8 | 740.8 | 737.9 | 726.5 | 708.9 | 693.0 | 684.2 | 59.4 | 229.3 | 229.3 |
| 20,0° | 761.9 | 761.9 | 759.6 | 745.2 | 724.0 | 705.6 | 696.8 | 69.2 | 298.5 | 298.5 |
| 22,5° | 772.0 | 771.2 | 770.0 | 754.7 | 731.1 | 710.8 | 702.6 | 78.2 | 376.7 | 376.7 |
| 25,0° | 758.1 | 756.6 | 756.3 | 743.6 | 722.7 | 703.3 | 695.6 | 85.1 | 461.8 | 461.8 |
| 27,5° | 706.7 | 709.5 | 709.5 | 700.0 | 685.7 | 672.3 | 667.0 | 87.8 | 549.7 | 549.7 |
| 30,0° | 640.4 | 635.6 | 633.7 | 626.6 | 621.7 | 614.1 | 609.9 | 85.8 | 635.5 | 635.5 |
| 32,5° | 530.6 | 537.6 | 535.6 | 526.2 | 530.2 | 524.1 | 520.8 | 78.1 | 713.6 | 713.6 |
| 35,0° | 428.2 | 426.4 | 425.9 | 411.9 | 420.8 | 414.2 | 411.4 | 66.0 | 779.6 | 779.6 |
| 37,5° | 322.5 | 323.4 | 327.0 | 311.0 | 319.4 | 310.8 | 308.2 | 53.0 | 832.6 | 832.6 |
| 40,0° | 236.1 | 234.0 | 241.6 | 230.8 | 230.9 | 219.8 | 218.4 | 40.7 | 873.3 | 873.3 |
| 42,5° | 162.3 | 165.3 | 172.9 | 171.1 | 161.7 | 151.3 | 150.8 | 30.2 | 903.5 | 903.5 |
| 45,0° | 117.3 | 114.9 | 119.4 | 122.5 | 109.3 | 102.6 | 102.3 | 21.9 | 925.4 | 925.4 |
| 47,5° | 80.5 | 81.4 | 82.8 | 85.5 | 75.2 | 71.4 | 70.8 | 15.9 | 941.3 | 941.3 |
| 50,0° | 59.4 | 58.0 | 58.0 | 59.0 | 52.9 | 50.5 | 49.6 | 11.7 | 953.0 | 953.0 |
| 52,5° | 43.3 | 42.8 | 42.8 | 43.0 | 39.3 | 37.2 | 36.6 | 8.9 | 961.8 | 961.8 |
| 55,0° | 33.3 | 32.4 | 32.9 | 33.7 | 30.5 | 28.7 | 28.3 | 7.1 | 968.9 | 968.9 |
| 57,5° | 25.9 | 25.4 | 25.9 | 26.8 | 24.5 | 22.9 | 22.9 | 5.8 | 974.7 | 974.7 |
| 60,0° | 20.9 | 20.2 | 21.2 | 21.8 | 20.4 | 18.9 | 19.2 | 4.9 | 979.5 | 979.5 |
| 62,5° | 16.9 | 16.2 | 17.4 | 18.0 | 17.2 | 15.9 | 16.4 | 4.1 | 983.6 | 983.6 |
| 65,0° | 14.9 | 13.6 | 14.4 | 15.1 | 14.8 | 13.6 | 14.4 | 3.6 | 987.2 | 987.2 |
| 67,5° | 12.3 | 11.4 | 12.5 | 12.4 | 13.0 | 11.7 | 12.6 | 3.1 | 990.3 | 990.3 |
| 70,0° | 10.4 | 9.5 | 10.5 | 10.1 | 11.1 | 10.1 | 11.0 | 2.7 | 993.0 | 993.0 |
| 72,5° | 8.2 | 7.7 | 7.9 | 8.2 | 8.7 | 8.6 | 9.5 | 2.2 | 995.2 | 995.2 |
| 75,0° | 6.5 | 6.0 | 6.0 | 6.4 | 6.6 | 7.1 | 7.9 | 1.7 | 996.9 | 996.9 |
| 77,5° | 4.5 | 4.3 | 4.4 | 4.7 | 5.1 | 5.6 | 6.3 | 1.3 | 998.2 | 998.2 |
| 80,0° | 2.9 | 2.7 | 2.9 | 3.1 | 3.5 | 4.1 | 4.7 | 0.9 | 999.1 | 999.1 |
| 82,5° | 1.3 | 1.4 | 1.6 | 1.8 | 2.2 | 2.7 | 3.3 | 0.5 | 999.7 | 999.7 |
| 85,0° | 0.6 | 0.6 | 0.6 | 0.7 | 1.0 | 1.4 | 1.8 | 0.3 | 999.9 | 999.9 |
| 87,5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.5 | 0.1 | 1000.0 | 1000.0 |
| 90,0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 | 1000.0 |

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| UGR-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 19,4 | 20,7 | 19,8 | 21,0 | 21,3 | 19,1 | 20,4 | 19,5 | 20,7 | 21,0 |
| | 3H | 19,4 | 20,6 | 19,8 | 20,9 | 21,2 | 19,1 | 20,3 | 19,5 | 20,6 | 21,0 |
| | 4H | 19,4 | 20,5 | 19,8 | 20,8 | 21,2 | 19,2 | 20,2 | 19,6 | 20,6 | 20,9 |
| | 6H | 19,4 | 20,3 | 19,8 | 20,7 | 21,1 | 19,2 | 20,1 | 19,6 | 20,5 | 20,9 |
| | 8H | 19,5 | 20,3 | 19,9 | 20,6 | 21,1 | 19,3 | 20,1 | 19,7 | 20,5 | 20,9 |
| | 12H | 19,4 | 20,2 | 19,9 | 20,6 | 21,0 | 19,3 | 20,0 | 19,7 | 20,4 | 20,8 |
| 4H | 2H | 19,3 | 20,4 | 19,7 | 20,7 | 21,1 | 19,0 | 20,1 | 19,4 | 20,4 | 20,8 |
| | 3H | 19,4 | 20,2 | 19,8 | 20,6 | 21,0 | 19,1 | 20,0 | 19,5 | 20,4 | 20,8 |
| | 4H | 19,4 | 20,1 | 19,8 | 20,5 | 21,0 | 19,2 | 19,9 | 19,6 | 20,3 | 20,8 |
| | 6H | 19,3 | 20,0 | 19,8 | 20,4 | 20,9 | 19,2 | 19,8 | 19,7 | 20,3 | 20,7 |
| | 8H | 19,3 | 19,9 | 19,8 | 20,3 | 20,8 | 19,2 | 19,8 | 19,7 | 20,2 | 20,7 |
| | 12H | 19,3 | 19,8 | 19,8 | 20,3 | 20,8 | 19,3 | 19,7 | 19,7 | 20,2 | 20,7 |
| 8H | 4H | 19,3 | 19,9 | 19,8 | 20,3 | 20,8 | 19,1 | 19,7 | 19,6 | 20,1 | 20,6 |
| | 6H | 19,3 | 19,7 | 19,8 | 20,2 | 20,7 | 19,1 | 19,6 | 19,6 | 20,1 | 20,6 |
| | 8H | 19,2 | 19,6 | 19,7 | 20,1 | 20,7 | 19,2 | 19,6 | 19,7 | 20,1 | 20,6 |
| | 12H | 19,2 | 19,5 | 19,7 | 20,0 | 20,6 | 19,2 | 19,5 | 19,7 | 20,0 | 20,6 |
| 12H | 4H | 19,3 | 19,8 | 19,8 | 20,2 | 20,7 | 19,1 | 19,6 | 19,6 | 20,0 | 20,5 |
| | 6H | 19,3 | 19,6 | 19,8 | 20,1 | 20,7 | 19,1 | 19,5 | 19,7 | 20,0 | 20,5 |
| | 8H | 19,2 | 19,5 | 19,8 | 20,1 | 20,6 | 19,2 | 19,5 | 19,7 | 20,0 | 20,5 |

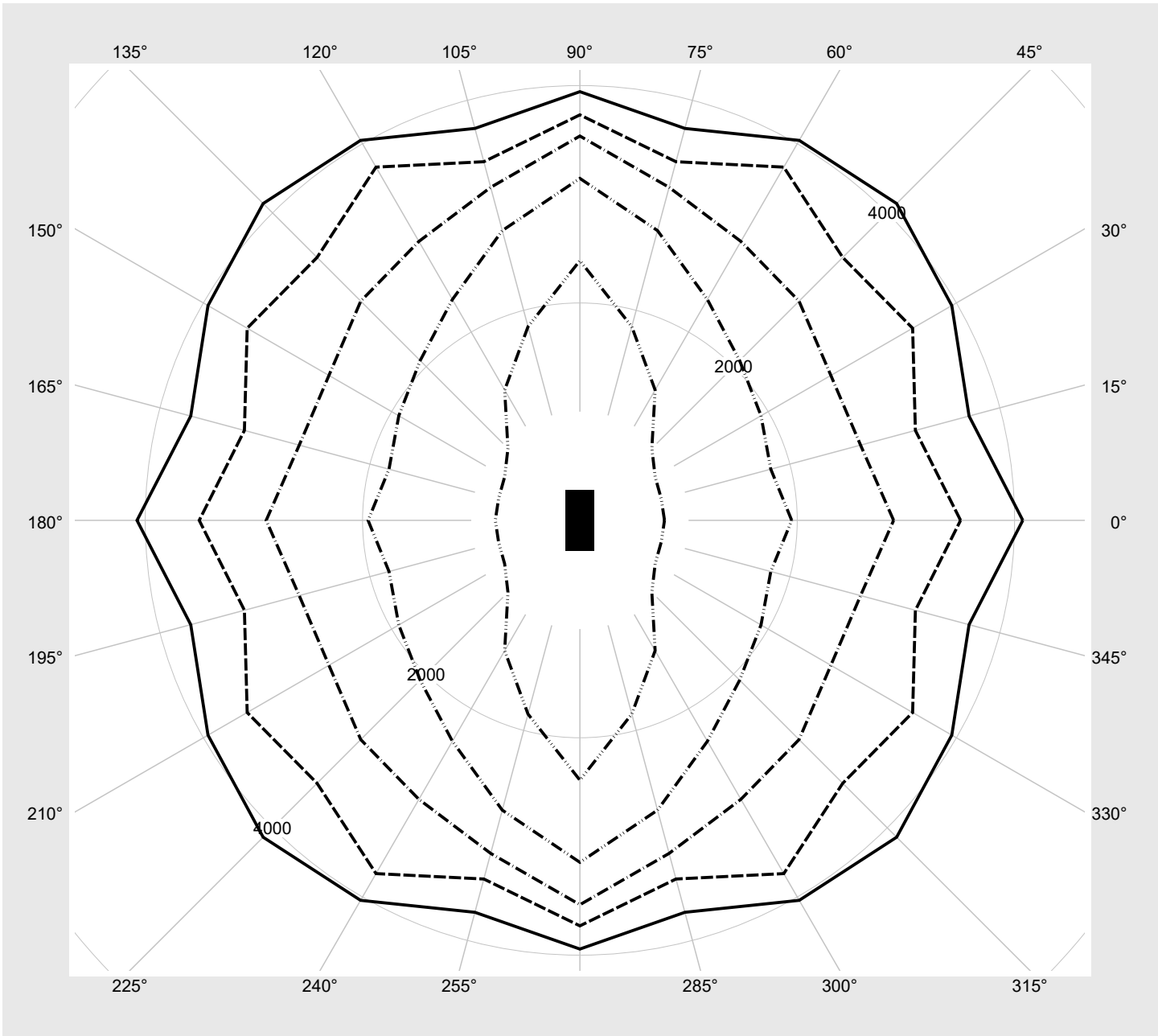
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| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 852 B = 264 |
|--|--|

| C-Ebenen | γ | Leuchtdichte in cd/m ² | | | | | | | |
|----------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| 45,0° | | 19179.4 | 18780.1 | 19521.6 | 20022.0 | 17862.3 | 16771.0 | 16721.6 | |
| 50,0° | | 10686.0 | 10433.4 | 10422.4 | 10608.5 | 9519.5 | 9076.6 | 8920.8 | |
| 55,0° | | 6715.6 | 6536.0 | 6629.3 | 6781.5 | 6151.7 | 5782.7 | 5713.2 | |
| 60,0° | | 4830.2 | 4662.8 | 4899.3 | 5046.3 | 4724.7 | 4375.4 | 4431.1 | |
| 65,0° | | 4075.7 | 3707.5 | 3951.7 | 4122.1 | 4036.5 | 3732.9 | 3943.8 | |
| 70,0° | | 3503.1 | 3196.2 | 3535.5 | 3420.6 | 3752.5 | 3415.9 | 3730.5 | |
| 75,0° | | 2886.9 | 2673.9 | 2666.7 | 2852.1 | 2963.3 | 3171.9 | 3535.9 | |
| 80,0° | | 1949.1 | 1818.6 | 1924.5 | 2078.9 | 2346.5 | 2759.9 | 3146.0 | |
| 85,0° | | 778.5 | 774.5 | 799.7 | 936.4 | 1384.6 | 1844.8 | 2389.9 | |

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



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

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 26000 | 125.4 |
| 95 | 241 | 252 | 24724 | 118.7 |
| 90 | 228 | 250 | 23439 | 112.2 |
| 85 | 214 | 248 | 22054 | 105.2 |
| 80 | 201 | 245 | 20755 | 98.6 |
| 75 | 188 | 243 | 19459 | 92.2 |
| 70 | 175 | 240 | 18155 | 85.7 |
| 65 | 163 | 238 | 16943 | 79.9 |
| 60 | 150 | 235 | 15629 | 73.4 |
| 55 | 137 | 231 | 14297 | 66.9 |
| 50 | 124 | 228 | 12968 | 60.7 |
| 45 | 112 | 224 | 11732 | 54.7 |
| 40 | 99 | 219 | 10381 | 48.4 |
| 35 | 87 | 215 | 9132 | 42.7 |
| 30 | 74 | 209 | 7766 | 36.5 |
| 25 | 62 | 202 | 6501 | 30.8 |
| 20 | 50 | 194 | 5232 | 25.1 |
| 15 | 38 | 184 | 3949 | 19.5 |
| 10 | 25 | 169 | 2558 | 13.3 |
| 5 | 13 | 145 | 1260 | 7.4 |
| 2 | 6 | 117 | 502 | 4.0 |