

Lichttechnischer Prüfbefund

Familie
Highbay 21

Bestell-Nr.: 52HN11DB6LDA
EAN: 4069025445292

LP-Nummer
59724_282



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

Bestückung LED 6500 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Einstellung DC Betrieb (Zentral- / Gruppenakku) Initiales Notlichtlevel

Bemessungswerte Nettolichtstrom = 4100 lm
Systemleistung = 22.6 W
Lichtausbeute = 181.4 lm/W

Seriendokumentation
24.04.2025

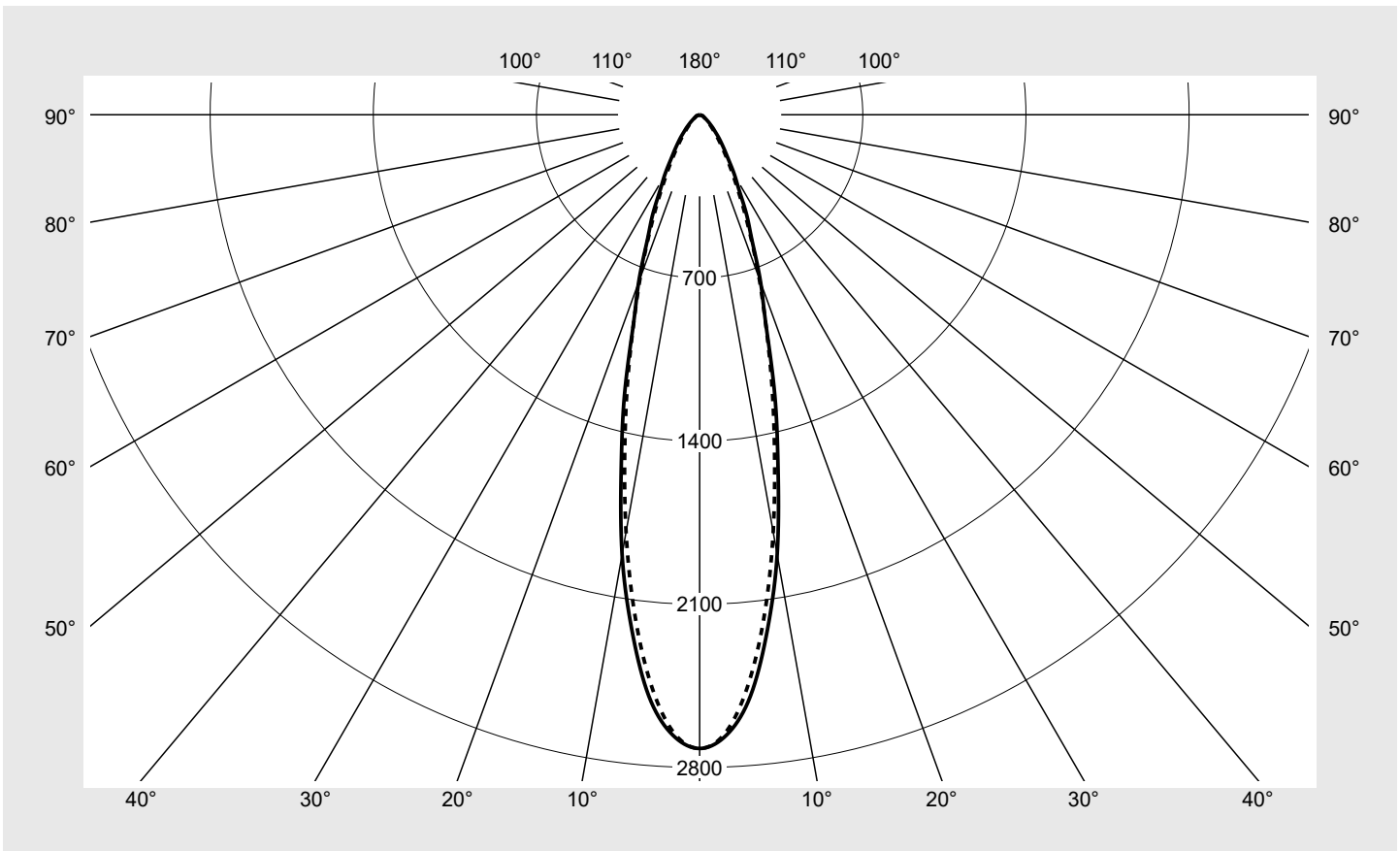
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 2719 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=89 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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| | | |
|--|---|-------------------------------|
| Familie Highbay 21 | Bestell-Nr.: 52HN11DB6LDA EAN: 4069025445292 | LP-Nummer 59724_282 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
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| C- Ebenen | 0,0° 180,0° | 7,5° | 15,0° | 22,5° | 30,0° | 37,5° | 45,0° | |
|--------------|----------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
| | | 172,5° 187,5° 352,5° | 165,0° 195,0° 345,0° | 157,5° 202,5° 337,5° | 150,0° 210,0° 330,0° | 142,5° 217,5° 322,5° | 135,0° 225,0° 315,0° | |
| γ | | Lichtstärke in cd/klm | | | | | | |
| 0,0° | 2718.5 | 2718.5 | 2718.5 | 2718.5 | 2718.5 | 2718.5 | 2718.5 | |
| 2,5° | 2662.8 | 2671.1 | 2671.1 | 2670.6 | 2667.6 | 2663.3 | 2662.4 | |
| 5,0° | 2502.8 | 2490.9 | 2498.0 | 2494.5 | 2487.6 | 2479.1 | 2473.3 | |
| 7,5° | 2228.4 | 2233.8 | 2227.9 | 2223.2 | 2214.7 | 2203.4 | 2194.2 | |
| 10,0° | 1915.8 | 1894.8 | 1902.8 | 1897.9 | 1890.8 | 1880.8 | 1870.9 | |
| 12,5° | 1554.6 | 1560.7 | 1554.3 | 1552.6 | 1548.0 | 1540.2 | 1531.7 | |
| 15,0° | 1246.2 | 1237.0 | 1237.4 | 1238.4 | 1237.7 | 1233.9 | 1229.0 | |
| 17,5° | 947.1 | 964.7 | 959.6 | 960.0 | 960.5 | 959.5 | 958.4 | |
| 20,0° | 765.0 | 752.2 | 754.6 | 751.6 | 749.0 | 747.8 | 747.5 | |
| 22,5° | 591.2 | 598.6 | 590.3 | 583.2 | 577.5 | 573.8 | 572.1 | |
| 25,0° | 481.4 | 472.8 | 470.4 | 460.9 | 451.8 | 445.8 | 443.1 | |
| 27,5° | 370.5 | 376.3 | 371.1 | 363.9 | 355.1 | 347.9 | 344.8 | |
| 30,0° | 301.2 | 297.9 | 295.0 | 290.6 | 284.7 | 279.0 | 275.2 | |
| 32,5° | 234.8 | 237.8 | 234.9 | 232.8 | 229.2 | 225.3 | 220.4 | |
| 35,0° | 189.2 | 188.5 | 187.7 | 186.9 | 184.4 | 180.6 | 175.3 | |
| 37,5° | 154.0 | 153.7 | 151.7 | 151.0 | 148.4 | 144.9 | 141.0 | |
| 40,0° | 125.7 | 123.3 | 123.0 | 121.9 | 119.1 | 115.8 | 113.2 | |
| 42,5° | 99.2 | 100.3 | 99.3 | 98.6 | 95.9 | 92.9 | 90.7 | |
| 45,0° | 81.4 | 79.6 | 79.7 | 79.0 | 77.2 | 74.6 | 72.7 | |
| 47,5° | 64.2 | 64.9 | 64.5 | 64.0 | 62.8 | 60.9 | 59.5 | |
| 50,0° | 52.5 | 51.6 | 51.8 | 51.7 | 51.0 | 49.9 | 49.1 | |
| 52,5° | 41.7 | 41.9 | 41.8 | 42.1 | 41.9 | 41.4 | 40.9 | |
| 55,0° | 33.9 | 33.5 | 34.1 | 34.8 | 35.0 | 35.0 | 34.7 | |
| 57,5° | 27.1 | 27.4 | 28.1 | 29.2 | 29.7 | 29.7 | 29.6 | |
| 60,0° | 22.3 | 22.3 | 23.0 | 24.6 | 25.8 | 25.8 | 25.5 | |
| 62,5° | 19.0 | 19.2 | 19.6 | 20.7 | 22.4 | 22.3 | 22.0 | |
| 65,0° | 17.0 | 16.8 | 17.2 | 18.3 | 19.8 | 19.1 | 19.1 | |
| 67,5° | 14.7 | 14.8 | 14.9 | 16.1 | 17.2 | 16.3 | 16.1 | |
| 70,0° | 12.8 | 12.5 | 12.6 | 13.8 | 14.3 | 13.8 | 13.9 | |
| 72,5° | 11.3 | 11.1 | 10.9 | 11.6 | 11.4 | 11.2 | 11.7 | |
| 75,0° | 9.7 | 9.3 | 8.9 | 9.6 | 9.3 | 9.1 | 9.3 | |
| 77,5° | 7.4 | 7.4 | 7.1 | 7.5 | 7.1 | 6.8 | 7.1 | |
| 80,0° | 4.9 | 4.7 | 4.8 | 4.8 | 4.5 | 4.5 | 4.8 | |
| 82,5° | 2.2 | 2.3 | 2.3 | 2.4 | 2.4 | 2.5 | 2.7 | |
| 85,0° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 1.0 | |
| 87,5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | |

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| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
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| C- Ebenen | 52,5° | 60,0° | 67,5° | 75,0° | 82,5° | 90,0° | Phi-Zone | Summe Phi-Zone |
|--------------|-----------------------|--------|--------|--------|--------|--------|----------------------|-------------------|
| | 127,5° | 120,0° | 112,5° | 105,0° | 97,5° | | | |
| | 232,5° | 240,0° | 247,5° | 255,0° | 262,5° | | | |
| | 307,5° | 300,0° | 292,5° | 285,0° | 277,5° | 270,0° | | |
| γ | Lichtstärke in cd/klm | | | | | | Lichtstrom in lm/klm | |
| 0,0° | 2718.5 | 2718.5 | 2718.5 | 2718.5 | 2718.5 | 2718.5 | 4.1 | 4.1 |
| 2,5° | 2661.4 | 2660.0 | 2657.7 | 2657.0 | 2651.0 | 2647.2 | 31.8 | 35.9 |
| 5,0° | 2468.0 | 2461.9 | 2456.3 | 2452.9 | 2444.7 | 2440.4 | 59.1 | 95.0 |
| 7,5° | 2185.5 | 2176.0 | 2168.0 | 2162.0 | 2152.6 | 2148.3 | 78.5 | 173.5 |
| 10,0° | 1860.3 | 1847.8 | 1837.7 | 1831.0 | 1822.1 | 1817.6 | 88.9 | 262.4 |
| 12,5° | 1522.0 | 1510.4 | 1500.7 | 1495.5 | 1488.9 | 1485.2 | 90.6 | 353.0 |
| 15,0° | 1223.0 | 1215.3 | 1207.9 | 1204.2 | 1200.8 | 1197.6 | 86.8 | 439.8 |
| 17,5° | 955.3 | 949.4 | 945.6 | 944.9 | 945.8 | 944.0 | 78.6 | 518.5 |
| 20,0° | 745.4 | 741.8 | 741.4 | 743.7 | 748.0 | 747.7 | 70.2 | 588.6 |
| 22,5° | 571.4 | 571.2 | 573.5 | 575.9 | 579.7 | 580.1 | 60.8 | 649.4 |
| 25,0° | 443.2 | 444.5 | 446.3 | 448.3 | 449.2 | 448.8 | 52.5 | 701.9 |
| 27,5° | 344.0 | 344.5 | 345.1 | 346.1 | 344.9 | 343.6 | 44.7 | 746.7 |
| 30,0° | 273.7 | 273.8 | 273.9 | 272.4 | 270.2 | 268.2 | 38.5 | 785.2 |
| 32,5° | 217.7 | 217.2 | 215.9 | 213.7 | 211.0 | 209.4 | 32.9 | 818.1 |
| 35,0° | 172.5 | 170.5 | 168.2 | 166.4 | 165.0 | 164.5 | 27.8 | 845.9 |
| 37,5° | 138.1 | 135.6 | 133.3 | 132.0 | 130.7 | 130.3 | 23.7 | 869.5 |
| 40,0° | 110.2 | 108.1 | 106.1 | 104.8 | 103.7 | 103.1 | 20.0 | 889.6 |
| 42,5° | 88.5 | 86.8 | 85.0 | 83.9 | 83.2 | 82.7 | 16.9 | 906.5 |
| 45,0° | 71.2 | 69.8 | 68.4 | 67.3 | 66.9 | 66.6 | 14.2 | 920.7 |
| 47,5° | 58.5 | 57.3 | 56.0 | 55.1 | 54.8 | 54.6 | 12.1 | 932.8 |
| 50,0° | 48.3 | 47.1 | 46.0 | 45.5 | 45.1 | 44.8 | 10.3 | 943.0 |
| 52,5° | 40.2 | 39.3 | 38.3 | 37.7 | 37.1 | 36.8 | 8.7 | 951.8 |
| 55,0° | 34.1 | 33.4 | 32.5 | 31.7 | 31.0 | 30.7 | 7.5 | 959.3 |
| 57,5° | 29.3 | 29.0 | 28.2 | 27.0 | 26.3 | 26.1 | 6.6 | 965.9 |
| 60,0° | 25.7 | 25.8 | 24.8 | 23.5 | 22.8 | 22.6 | 5.8 | 971.6 |
| 62,5° | 22.4 | 22.9 | 21.8 | 20.7 | 20.1 | 19.9 | 5.1 | 976.8 |
| 65,0° | 19.6 | 20.2 | 19.7 | 18.4 | 17.9 | 17.8 | 4.6 | 981.4 |
| 67,5° | 16.7 | 17.6 | 17.8 | 16.4 | 16.0 | 16.0 | 4.1 | 985.5 |
| 70,0° | 14.1 | 15.0 | 15.6 | 14.4 | 14.4 | 14.6 | 3.6 | 989.1 |
| 72,5° | 11.7 | 12.4 | 13.4 | 12.9 | 13.2 | 13.4 | 3.1 | 992.3 |
| 75,0° | 9.5 | 10.4 | 12.0 | 11.4 | 11.8 | 11.9 | 2.7 | 995.0 |
| 77,5° | 7.2 | 8.1 | 9.6 | 9.6 | 10.0 | 10.2 | 2.1 | 997.1 |
| 80,0° | 5.1 | 5.7 | 7.0 | 7.5 | 7.6 | 8.0 | 1.5 | 998.6 |
| 82,5° | 3.0 | 3.6 | 4.5 | 5.0 | 5.3 | 5.6 | 0.9 | 999.5 |
| 85,0° | 1.2 | 1.7 | 2.3 | 2.7 | 3.1 | 3.3 | 0.4 | 999.9 |
| 87,5° | 0.4 | 0.4 | 0.5 | 0.6 | 0.8 | 0.9 | 0.1 | 1000.1 |

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| UGR-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 9,7 | 10,8 | 10,1 | 11,1 | 11,5 | 9,2 | 10,3 | 9,5 | 10,6 | 10,9 |
| | 3H | 10,1 | 11,1 | 10,5 | 11,4 | 11,8 | 9,8 | 10,8 | 10,2 | 11,1 | 11,5 |
| | 4H | 10,3 | 11,3 | 10,7 | 11,6 | 12,0 | 10,2 | 11,1 | 10,6 | 11,5 | 11,9 |
| | 6H | 10,5 | 11,3 | 10,9 | 11,7 | 12,1 | 10,6 | 11,4 | 11,1 | 11,8 | 12,2 |
| | 8H | 10,6 | 11,3 | 11,0 | 11,7 | 12,1 | 10,9 | 11,5 | 11,3 | 11,9 | 12,3 |
| | 12H | 10,6 | 11,2 | 11,0 | 11,6 | 12,0 | 10,9 | 11,6 | 11,4 | 11,9 | 12,4 |
| 4H | 2H | 9,9 | 10,8 | 10,3 | 11,1 | 11,5 | 9,4 | 10,3 | 9,8 | 10,6 | 11,0 |
| | 3H | 10,5 | 11,2 | 10,9 | 11,6 | 12,0 | 10,2 | 11,0 | 10,7 | 11,4 | 11,8 |
| | 4H | 10,8 | 11,4 | 11,2 | 11,8 | 12,3 | 10,8 | 11,4 | 11,2 | 11,9 | 12,3 |
| | 6H | 11,0 | 11,6 | 11,5 | 12,0 | 12,5 | 11,3 | 11,9 | 11,8 | 12,3 | 12,8 |
| | 8H | 11,0 | 11,5 | 11,5 | 12,0 | 12,5 | 11,5 | 12,0 | 12,0 | 12,5 | 12,9 |
| | 12H | 11,0 | 11,4 | 11,5 | 11,9 | 12,4 | 11,7 | 12,1 | 12,1 | 12,5 | 13,0 |
| 8H | 4H | 10,9 | 11,4 | 11,3 | 11,8 | 12,3 | 10,9 | 11,4 | 11,4 | 11,8 | 12,3 |
| | 6H | 11,1 | 11,5 | 11,6 | 12,0 | 12,5 | 11,5 | 11,9 | 12,0 | 12,4 | 12,9 |
| | 8H | 11,2 | 11,5 | 11,7 | 12,0 | 12,5 | 11,7 | 12,1 | 12,2 | 12,6 | 13,1 |
| | 12H | 11,1 | 11,4 | 11,7 | 11,9 | 12,5 | 11,9 | 12,2 | 12,4 | 12,7 | 13,2 |
| 12H | 4H | 10,9 | 11,3 | 11,4 | 11,7 | 12,2 | 10,9 | 11,3 | 11,4 | 11,7 | 12,2 |
| | 6H | 11,1 | 11,5 | 11,7 | 12,0 | 12,5 | 11,5 | 11,8 | 12,0 | 12,3 | 12,8 |
| | 8H | 11,2 | 11,4 | 11,7 | 12,0 | 12,5 | 11,7 | 12,0 | 12,2 | 12,5 | 13,1 |

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

Lichttechnische Abmessungen in mm: **L = 852** **B = 264**

| C- Ebenen | γ | 10,0° | 20,0° | 30,0° | 40,0° | 50,0° | 60,0° | 70,0° | 80,0° | 90,0° | |
|-----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 170,0° | 160,0° | 150,0° | 140,0° | 130,0° | 120,0° | 110,0° | 100,0° | 90,0° | |
| | | 190,0° | 200,0° | 210,0° | 220,0° | 230,0° | 240,0° | 250,0° | 260,0° | 270,0° | |
| | | 180,0° | 350,0° | 340,0° | 330,0° | 320,0° | 310,0° | 300,0° | 290,0° | 280,0° | |
| | 45,0° | 2098.2 | 2048.3 | 2045.5 | 1990.4 | 1904.7 | 1847.9 | 1800.3 | 1752.5 | 1727.7 | 1716.3 |
| | 50,0° | 1487.4 | 1462.5 | 1469.0 | 1446.0 | 1407.0 | 1379.6 | 1335.8 | 1297.7 | 1281.8 | 1269.6 |
| | 55,0° | 1077.4 | 1067.2 | 1099.6 | 1113.8 | 1108.9 | 1089.4 | 1062.3 | 1024.5 | 990.0 | 977.0 |
| | 60,0° | 814.0 | 819.2 | 878.0 | 942.3 | 936.4 | 934.6 | 941.1 | 890.9 | 838.3 | 824.8 |
| | 65,0° | 734.9 | 728.8 | 770.1 | 852.1 | 821.5 | 836.1 | 871.9 | 834.9 | 778.8 | 769.6 |
| | 70,0° | 681.5 | 666.7 | 720.0 | 760.5 | 733.5 | 743.1 | 799.9 | 820.0 | 766.1 | 776.8 |
| | 75,0° | 681.2 | 644.7 | 667.9 | 655.7 | 640.0 | 661.9 | 729.7 | 851.1 | 825.9 | 838.8 |
| | 80,0° | 514.3 | 494.8 | 508.7 | 476.9 | 481.2 | 516.9 | 602.0 | 763.5 | 789.1 | 835.8 |
| | 85,0° | 169.0 | 164.7 | 168.4 | 170.9 | 188.9 | 229.2 | 350.5 | 505.3 | 622.6 | 693.7 |

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

