

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 21

**Bestell-Nr.:** 52HN11DB6QDA  
**EAN:** 4069025445322

**LP-Nummer**  
59724\_238



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

**Bestückung** LED 6500 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Einstellung** AC-Betrieb

**Bemessungswerte** Nettolichtstrom = 36840 lm  
Systemleistung = 197.7 W  
Lichtausbeute = 186.4 lm/W

**Seriendokumentation**  
24.04.2025

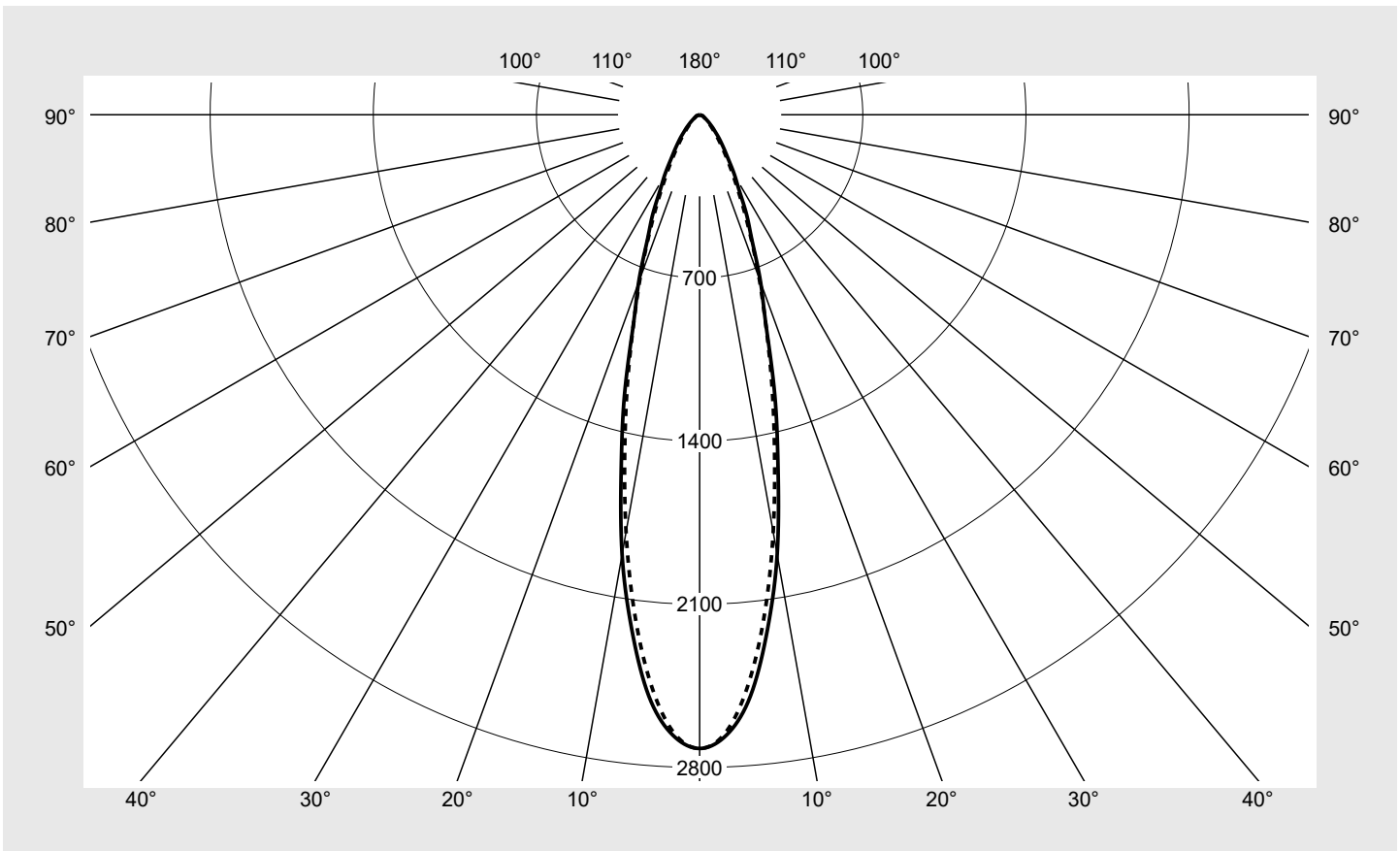
siteco

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**

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

**Messbedingungen**

DIN EN 13032 und DIN 5032

## Lichttechnischer Prüfbefund

|  |   |                               |
|--|---|-------------------------------|
| <b>Familie</b><br>Highbay 21           | <b>Bestell-Nr.: 52HN11DB6QDA</b><br><b>EAN: 4069025445322</b> | <b>LP-Nummer</b><br>59724_238 |
| <b>Wertetabelle Lichtstärkemessung</b> |   | <b>Maximale Lichtstärke</b>   |
|  |   | <b>siteco</b>                 |

| C-<br>Ebenen | 0,0°<br>180,0° | 7,5°                  | 15,0°  | 22,5°  | 30,0°  | 37,5°  | 45,0°  |
|--------------|----------------|-----------------------|--------|--------|--------|--------|--------|
|              |                | 172,5°                | 165,0° | 157,5° | 150,0° | 142,5° | 135,0° |
|              |                | 187,5°                | 195,0° | 202,5° | 210,0° | 217,5° | 225,0° |
|              |                | 352,5°                | 345,0° | 337,5° | 330,0° | 322,5° | 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    |

## Lichttechnischer Prüfbefund

|  |   |                               |
|--|---|-------------------------------|
| <b>Familie</b><br>Highbay 21           | <b>Bestell-Nr.: 52HN11DB6QDA</b><br><b>EAN: 4069025445322</b> | <b>LP-Nummer</b><br>59724_238 |
| <b>Wertetabelle Lichtstärkemessung</b> |   | <b>Maximale Lichtstärke</b>   |
|  |   | <b>sITeco</b>                 |

| C-<br>Ebenen | 52,5°                 | 60,0°  | 67,5°  | 75,0°  | 82,5°  | 90,0°  | Phi-Zone             | Summe<br>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            |

## Lichttechnischer Prüfbefund

|                              |   |                               |
|------------------------------|---|-------------------------------|
| <b>Familie</b><br>Highbay 21 | <b>Bestell-Nr.: 52HN11DB6QDA</b><br><b>EAN: 4069025445322</b> | <b>LP-Nummer</b><br>59724_238 |
|------------------------------|---|-------------------------------|

| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 17,3                                | 18,5 | 17,7 | 18,8 | 19,1 | 16,8                                  | 17,9 | 17,1 | 18,2 | 18,5 |
|                 | 3H  | 17,8                                | 18,7 | 18,1 | 19,1 | 19,4 | 17,4                                  | 18,4 | 17,8 | 18,8 | 19,1 |
|                 | 4H  | 18,0                                | 18,9 | 18,4 | 19,2 | 19,6 | 17,8                                  | 18,7 | 18,2 | 19,1 | 19,5 |
|                 | 6H  | 18,2                                | 18,9 | 18,6 | 19,3 | 19,7 | 18,3                                  | 19,1 | 18,7 | 19,4 | 19,8 |
|                 | 8H  | 18,2                                | 18,9 | 18,7 | 19,3 | 19,7 | 18,5                                  | 19,2 | 18,9 | 19,5 | 20,0 |
|                 | 12H | 18,2                                | 18,8 | 18,6 | 19,2 | 19,6 | 18,6                                  | 19,2 | 19,0 | 19,6 | 20,0 |
| 4H              | 2H  | 17,5                                | 18,4 | 17,9 | 18,8 | 19,1 | 17,0                                  | 17,9 | 17,4 | 18,3 | 18,7 |
|                 | 3H  | 18,1                                | 18,8 | 18,5 | 19,2 | 19,6 | 17,9                                  | 18,6 | 18,3 | 19,0 | 19,4 |
|                 | 4H  | 18,4                                | 19,1 | 18,8 | 19,5 | 19,9 | 18,4                                  | 19,1 | 18,9 | 19,5 | 19,9 |
|                 | 6H  | 18,6                                | 19,2 | 19,1 | 19,6 | 20,1 | 18,9                                  | 19,5 | 19,4 | 19,9 | 20,4 |
|                 | 8H  | 18,7                                | 19,1 | 19,1 | 19,6 | 20,1 | 19,1                                  | 19,6 | 19,6 | 20,1 | 20,6 |
|                 | 12H | 18,7                                | 19,0 | 19,1 | 19,5 | 20,0 | 19,3                                  | 19,7 | 19,8 | 20,1 | 20,7 |
| 8H              | 4H  | 18,5                                | 19,0 | 19,0 | 19,4 | 19,9 | 18,5                                  | 19,0 | 19,0 | 19,4 | 19,9 |
|                 | 6H  | 18,8                                | 19,2 | 19,3 | 19,6 | 20,2 | 19,1                                  | 19,5 | 19,6 | 20,0 | 20,5 |
|                 | 8H  | 18,8                                | 19,1 | 19,3 | 19,6 | 20,2 | 19,3                                  | 19,7 | 19,8 | 20,2 | 20,7 |
|                 | 12H | 18,8                                | 19,0 | 19,3 | 19,6 | 20,1 | 19,5                                  | 19,8 | 20,0 | 20,3 | 20,9 |
| 12H             | 4H  | 18,5                                | 18,9 | 19,0 | 19,4 | 19,9 | 18,5                                  | 18,9 | 19,0 | 19,4 | 19,9 |
|                 | 6H  | 18,8                                | 19,1 | 19,3 | 19,6 | 20,1 | 19,1                                  | 19,4 | 19,6 | 19,9 | 20,5 |
|                 | 8H  | 18,8                                | 19,1 | 19,3 | 19,6 | 20,1 | 19,3                                  | 19,6 | 19,9 | 20,1 | 20,7 |

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

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

| C- Ebenen | $\gamma$ | 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°   |         |
|           |          | 180,0°                            | 190,0°  | 200,0°  | 210,0°  | 220,0°  | 230,0°  | 240,0°  | 250,0°  | 260,0°  |         |
|           |          | 350,0°                            | 340,0°  | 330,0°  | 320,0°  | 310,0°  | 300,0°  | 290,0°  | 280,0°  | 270,0°  |         |
|           |          | Leuchtdichte in cd/m <sup>2</sup> |         |         |         |         |         |         |         |         |         |
| 45,0°     |          | 18852.7                           | 18404.4 | 18379.9 | 17884.2 | 17114.7 | 16604.4 | 16176.7 | 15747.2 | 15524.0 | 15421.3 |
| 50,0°     |          | 13364.5                           | 13141.3 | 13199.1 | 12992.5 | 12642.8 | 12396.5 | 12002.9 | 11660.1 | 11517.4 | 11407.4 |
| 55,0°     |          | 9681.1                            | 9588.8  | 9880.4  | 10008.0 | 9963.5  | 9788.5  | 9545.4  | 9205.9  | 8895.1  | 8778.4  |
| 60,0°     |          | 7314.3                            | 7360.8  | 7889.3  | 8466.7  | 8413.8  | 8397.8  | 8455.9  | 8005.4  | 7532.2  | 7411.0  |
| 65,0°     |          | 6603.1                            | 6548.1  | 6919.6  | 7656.1  | 7381.8  | 7512.3  | 7833.9  | 7501.9  | 6998.1  | 6915.1  |
| 70,0°     |          | 6123.9                            | 5990.8  | 6469.5  | 6833.6  | 6590.4  | 6676.7  | 7187.5  | 7368.2  | 6883.9  | 6979.6  |
| 75,0°     |          | 6121.3                            | 5792.9  | 6001.2  | 5891.5  | 5750.5  | 5947.7  | 6556.6  | 7647.6  | 7420.6  | 7536.9  |
| 80,0°     |          | 4620.8                            | 4445.5  | 4570.9  | 4285.0  | 4323.8  | 4644.9  | 5409.3  | 6860.6  | 7090.0  | 7509.8  |
| 85,0°     |          | 1518.4                            | 1479.6  | 1512.8  | 1535.3  | 1697.8  | 2059.6  | 3149.6  | 4540.6  | 5594.5  | 6233.4  |

**Lichttechnischer Prüfbefund**

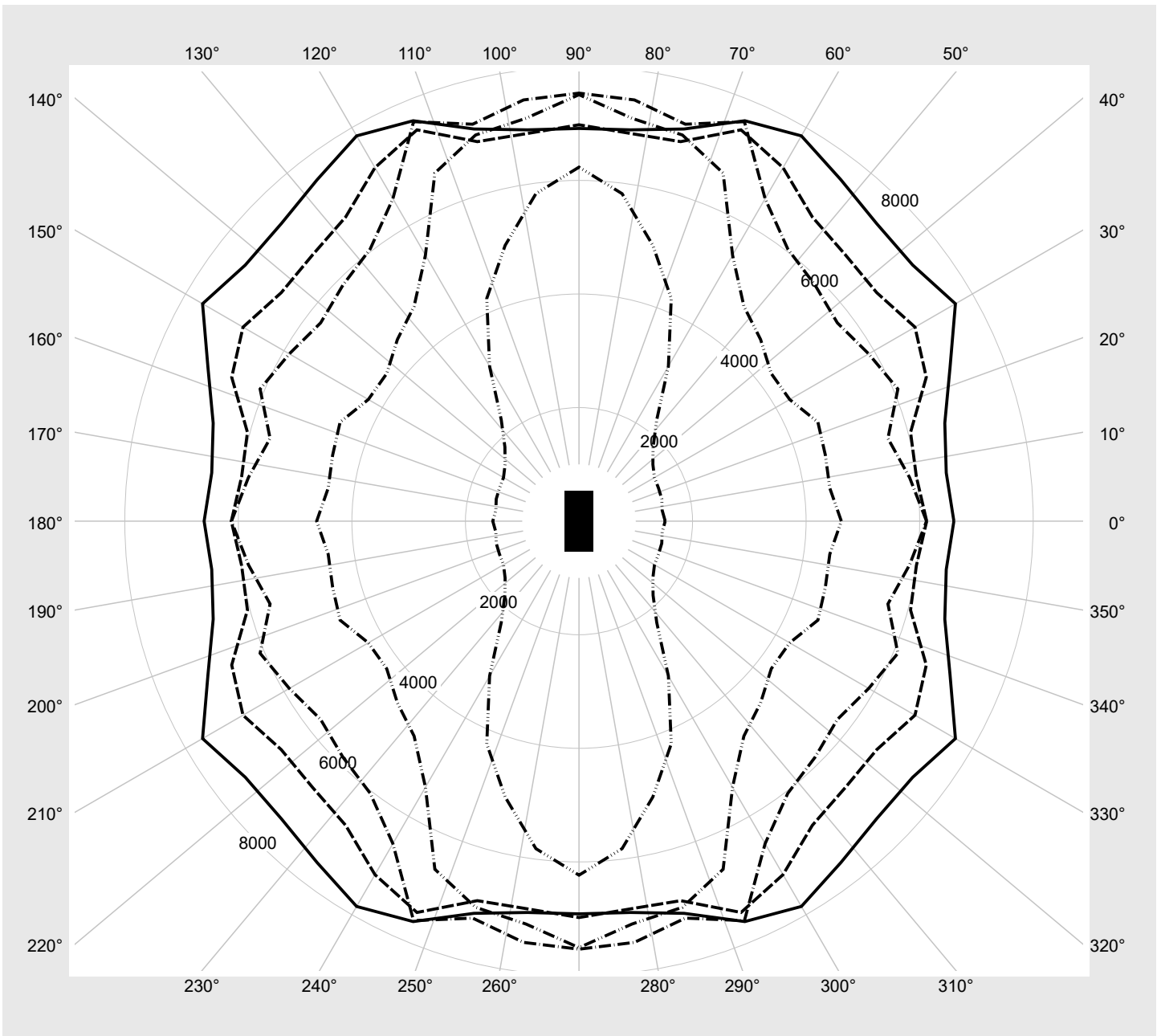
**Familie**  
Highbay 21

**Bestell-Nr.:** 52HN11DB6QDA  
**EAN:** 4069025445322

**LP-Nummer**  
59724\_238

**Leuchtdichten in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



## Lichttechnischer Prüfbefund

|                              |   |                               |
|------------------------------|---|-------------------------------|
| <b>Familie</b><br>Highbay 21 | <b>Bestell-Nr.: 52HN11DB6QDA</b><br><b>EAN: 4069025445322</b> | <b>LP-Nummer</b><br>59724_238 |
|------------------------------|---|-------------------------------|

|                           |                           |               |
|---------------------------|---------------------------|---------------|
| <b>Dimmstufen-Tabelle</b> | Umgebungstemperatur: 25°C | <b>sITeco</b> |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 36840           | 197.7              |
| 95             | 241              | 252                     | 35037           | 187.3              |
| 90             | 228              | 250                     | 33222           | 177.1              |
| 85             | 214              | 248                     | 31256           | 166.1              |
| 80             | 201              | 245                     | 29416           | 155.8              |
| 75             | 188              | 243                     | 27573           | 145.8              |
| 70             | 176              | 241                     | 25857           | 136.3              |
| 65             | 163              | 238                     | 23994           | 126.2              |
| 60             | 150              | 235                     | 22122           | 116.2              |
| 55             | 137              | 231                     | 20243           | 106.1              |
| 50             | 124              | 228                     | 18362           | 96.3               |
| 45             | 112              | 224                     | 16611           | 87.1               |
| 40             | 99               | 219                     | 14701           | 77.2               |
| 35             | 87               | 215                     | 12932           | 68.0               |
| 30             | 74               | 209                     | 11012           | 58.3               |
| 25             | 62               | 202                     | 9229            | 49.1               |
| 20             | 50               | 194                     | 7437            | 40.2               |
| 15             | 37               | 183                     | 5491            | 30.6               |
| 10             | 25               | 169                     | 3687            | 21.8               |
| 5              | 13               | 145                     | 1873            | 12.5               |
| 1              | 4                | 102                     | 512             | 5.4                |