

Lichttechnischer Prüfbefund

**Familie**  
**Highbay 11**

**Bestell-Nr.: 51HN11DB4LDA01**  
**EAN: 4069025242655**

**LP-Nummer**  
**59711\_51**



**Ausführung** primäre Lichtlenkung mit Linse, PMMA, Gehäuse, weiß, eng strahlend, mit Multisensor Node BT  
  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 26000 lm  
Systemleistung = 125.9 W  
Lichtausbeute = 206.5 lm/W

**Seriendokumentation**  
**30.01.2025**





| Klassifizierungen |                    | Leuchtenbetriebswirkungsgrade |        |
|-------------------|--------------------|-------------------------------|--------|
| DIN 5040          | A 7 0              | ηLB                           | 100,0% |
| CIE               | N1=85 N2=97 N3=100 | ϕ <sub>u</sub>                | 100,0% |
|                   | N4=100 N5=100      | ϕ <sub>o</sub>                | 0,0%   |

| Messbedingungen           |
|---------------------------|
| DIN EN 13032 und DIN 5032 |

Lichttechnischer Prüfbefund

|                                            |                                                                      |                                                   |
|--------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------|
| <div>Familie</div> <div>Highbay 11</div>   | <div>Bestell-Nr.: 51HN11DB4LDA01</div> <div>EAN: 4069025242655</div> | <div>LP-Nummer</div> <div>59711_51</div>          |
| <div>Wertetabelle Lichtstärkemessung</div> |                                                                      | <div>Maximale Lichtstärke</div> <div>siteco</div> |

| C-<br>Ebenen | 0°<br>180°            | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|----------------------|-------------------|
| γ            | Lichtstärke in cd/klm |                             |                             |                             |                             |                             |             | Lichtstrom in lm/klm |                   |
| 0,0°         | 2678.6                | 2678.6                      | 2678.6                      | 2678.6                      | 2678.6                      | 2678.6                      | 2678.6      | 4.0                  | 4.0               |
| 2,5°         | 2608.0                | 2619.4                      | 2619.4                      | 2616.5                      | 2617.6                      | 2616.2                      | 2606.1      | 31.3                 | 35.3              |
| 5,0°         | 2420.1                | 2415.7                      | 2414.1                      | 2408.4                      | 2406.6                      | 2402.3                      | 2391.7      | 57.6                 | 92.8              |
| 7,5°         | 2113.4                | 2116.1                      | 2112.3                      | 2103.0                      | 2097.6                      | 2090.5                      | 2079.6      | 75.2                 | 168.1             |
| 10,0°        | 1780.1                | 1768.7                      | 1762.7                      | 1751.6                      | 1743.6                      | 1735.2                      | 1724.7      | 83.4                 | 251.5             |
| 12,5°        | 1410.1                | 1409.3                      | 1404.7                      | 1395.9                      | 1388.1                      | 1380.5                      | 1373.1      | 82.8                 | 334.3             |
| 15,0°        | 1106.5                | 1097.8                      | 1095.0                      | 1089.4                      | 1083.1                      | 1078.4                      | 1073.9      | 77.3                 | 411.5             |
| 17,5°        | 830.1                 | 840.2                       | 835.5                       | 831.1                       | 826.6                       | 824.9                       | 824.1       | 68.5                 | 480.0             |
| 20,0°        | 671.1                 | 661.9                       | 651.8                       | 643.2                       | 639.9                       | 639.4                       | 641.0       | 60.8                 | 540.8             |
| 22,5°        | 531.9                 | 530.5                       | 514.2                       | 498.9                       | 497.0                       | 496.6                       | 496.8       | 53.4                 | 594.2             |
| 25,0°        | 450.6                 | 441.3                       | 420.6                       | 401.3                       | 399.0                       | 395.8                       | 392.4       | 47.9                 | 642.1             |
| 27,5°        | 370.8                 | 368.7                       | 351.4                       | 331.7                       | 326.8                       | 321.1                       | 316.0       | 43.1                 | 685.2             |
| 30,0°        | 320.4                 | 312.1                       | 300.8                       | 284.1                       | 278.0                       | 270.2                       | 264.7       | 39.7                 | 724.9             |
| 32,5°        | 271.0                 | 266.8                       | 259.0                       | 245.6                       | 238.0                       | 229.0                       | 224.7       | 36.5                 | 761.4             |
| 35,0°        | 235.8                 | 228.9                       | 222.7                       | 210.5                       | 201.6                       | 193.0                       | 191.7       | 33.3                 | 794.7             |
| 37,5°        | 204.4                 | 197.8                       | 191.5                       | 181.1                       | 172.0                       | 164.3                       | 162.4       | 30.3                 | 825.0             |
| 40,0°        | 176.7                 | 170.7                       | 163.1                       | 154.3                       | 146.1                       | 138.3                       | 135.6       | 27.3                 | 852.2             |
| 42,5°        | 147.6                 | 145.5                       | 138.6                       | 130.6                       | 123.2                       | 115.8                       | 113.3       | 24.2                 | 876.4             |
| 45,0°        | 126.0                 | 121.8                       | 116.3                       | 109.0                       | 102.0                       | 95.3                        | 93.2        | 21.1                 | 897.6             |
| 47,5°        | 103.2                 | 101.5                       | 97.1                        | 90.9                        | 84.6                        | 78.4                        | 76.7        | 18.3                 | 915.9             |
| 50,0°        | 85.9                  | 82.9                        | 79.4                        | 74.6                        | 69.1                        | 63.7                        | 61.9        | 15.5                 | 931.4             |
| 52,5°        | 69.0                  | 67.2                        | 64.5                        | 61.0                        | 56.2                        | 51.6                        | 49.7        | 13.0                 | 944.4             |
| 55,0°        | 55.6                  | 54.1                        | 52.2                        | 49.5                        | 45.7                        | 41.7                        | 40.0        | 10.9                 | 955.3             |
| 57,5°        | 43.6                  | 43.1                        | 41.8                        | 39.8                        | 37.0                        | 33.6                        | 32.2        | 9.0                  | 964.3             |
| 60,0°        | 33.2                  | 33.3                        | 33.9                        | 32.4                        | 30.5                        | 27.5                        | 26.1        | 7.4                  | 971.7             |
| 62,5°        | 25.9                  | 26.0                        | 27.0                        | 26.2                        | 25.1                        | 22.4                        | 21.3        | 6.1                  | 977.8             |
| 65,0°        | 21.6                  | 21.2                        | 21.7                        | 21.3                        | 20.9                        | 18.8                        | 17.7        | 5.1                  | 982.9             |
| 67,5°        | 17.0                  | 17.1                        | 17.8                        | 17.0                        | 17.3                        | 15.6                        | 14.8        | 4.3                  | 987.2             |
| 70,0°        | 13.5                  | 13.4                        | 14.4                        | 13.6                        | 14.1                        | 13.0                        | 12.4        | 3.5                  | 990.7             |
| 72,5°        | 11.0                  | 10.8                        | 10.9                        | 10.9                        | 11.0                        | 10.7                        | 10.6        | 2.8                  | 993.5             |
| 75,0°        | 9.0                   | 8.4                         | 8.4                         | 8.3                         | 8.6                         | 9.0                         | 8.9         | 2.3                  | 995.8             |
| 77,5°        | 6.6                   | 6.4                         | 6.2                         | 6.2                         | 6.6                         | 7.3                         | 7.4         | 1.8                  | 997.5             |
| 80,0°        | 4.4                   | 4.2                         | 4.1                         | 4.2                         | 4.7                         | 5.7                         | 5.8         | 1.3                  | 998.8             |
| 82,5°        | 2.0                   | 2.1                         | 2.2                         | 2.4                         | 3.0                         | 3.9                         | 4.1         | 0.8                  | 999.6             |
| 85,0°        | 0.8                   | 0.8                         | 0.8                         | 1.0                         | 1.5                         | 2.2                         | 2.4         | 0.4                  | 999.9             |
| 87,5°        | 0.3                   | 0.3                         | 0.3                         | 0.3                         | 0.3                         | 0.4                         | 0.5         | 0.1                  | 1000.0            |
| 90,0°        | 0.0                   | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                  | 1000.0            |

Lichttechnischer Prüfbefund

|                       |     |                                                   |      |      |      |      |                                       |      |                       |      |
|-----------------------|-----|---------------------------------------------------|------|------|------|------|---------------------------------------|------|-----------------------|------|
| Familie<br>Highbay 11 |     | Bestell-Nr.: 51HN11DB4LDA01<br>EAN: 4069025242655 |      |      |      |      |                                       |      | LP-Nummer<br>59711_51 |      |
| UGR-Tabelle           |     | Standardraum                                      |      |      |      |      |                                       |      | siteco                |      |
| Reflexionsgrad Decke  | 0,7 | 0,7                                               | 0,5  | 0,5  | 0,3  | 0,7  | 0,7                                   | 0,5  | 0,5                   | 0,3  |
| Reflexionsgrad Wände  | 0,5 | 0,3                                               | 0,5  | 0,3  | 0,3  | 0,5  | 0,3                                   | 0,5  | 0,3                   | 0,3  |
| Reflexionsgrad Boden  | 0,2 | 0,2                                               | 0,2  | 0,2  | 0,2  | 0,2  | 0,2                                   | 0,2  | 0,2                   | 0,2  |
| Raumabmessungen       |     | Blickrichtung quer zur Leuchte (C0)               |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |                       |      |
| x                     | y   |                                                   |      |      |      |      |                                       |      |                       |      |
| 2H                    | 2H  | 18,4                                              | 19,6 | 18,8 | 19,9 | 20,2 | 17,2                                  | 18,4 | 17,6                  | 18,7 |
|                       | 3H  | 18,6                                              | 19,7 | 19,0 | 20,0 | 20,4 | 17,5                                  | 18,5 | 17,9                  | 18,9 |
|                       | 4H  | 18,7                                              | 19,7 | 19,1 | 20,0 | 20,4 | 17,6                                  | 18,6 | 18,0                  | 18,9 |
|                       | 6H  | 18,8                                              | 19,6 | 19,2 | 20,0 | 20,4 | 17,8                                  | 18,6 | 18,2                  | 19,0 |
|                       | 8H  | 18,8                                              | 19,5 | 19,2 | 19,9 | 20,3 | 17,9                                  | 18,6 | 18,3                  | 19,0 |
|                       | 12H | 18,8                                              | 19,4 | 19,2 | 19,8 | 20,3 | 17,9                                  | 18,6 | 18,3                  | 19,0 |
| 4H                    | 2H  | 18,5                                              | 19,4 | 18,9 | 19,8 | 20,1 | 17,4                                  | 18,3 | 17,8                  | 18,7 |
|                       | 3H  | 18,8                                              | 19,6 | 19,2 | 20,0 | 20,4 | 17,8                                  | 18,6 | 18,2                  | 19,0 |
|                       | 4H  | 18,9                                              | 19,6 | 19,3 | 20,0 | 20,4 | 18,0                                  | 18,7 | 18,4                  | 19,1 |
|                       | 6H  | 19,0                                              | 19,5 | 19,4 | 20,0 | 20,5 | 18,2                                  | 18,8 | 18,7                  | 19,2 |
|                       | 8H  | 19,0                                              | 19,5 | 19,4 | 19,9 | 20,4 | 18,3                                  | 18,8 | 18,8                  | 19,2 |
|                       | 12H | 18,9                                              | 19,4 | 19,4 | 19,8 | 20,3 | 18,3                                  | 18,8 | 18,8                  | 19,2 |
| 8H                    | 4H  | 18,9                                              | 19,4 | 19,4 | 19,8 | 20,3 | 18,0                                  | 18,5 | 18,5                  | 19,0 |
|                       | 6H  | 19,0                                              | 19,4 | 19,5 | 19,9 | 20,4 | 18,3                                  | 18,7 | 18,8                  | 19,1 |
|                       | 8H  | 18,9                                              | 19,3 | 19,5 | 19,8 | 20,3 | 18,3                                  | 18,7 | 18,9                  | 19,2 |
|                       | 12H | 18,9                                              | 19,2 | 19,4 | 19,7 | 20,3 | 18,4                                  | 18,7 | 18,9                  | 19,2 |
| 12H                   | 4H  | 18,9                                              | 19,3 | 19,4 | 19,8 | 20,3 | 18,0                                  | 18,4 | 18,5                  | 18,9 |
|                       | 6H  | 18,9                                              | 19,3 | 19,5 | 19,8 | 20,3 | 18,2                                  | 18,6 | 18,8                  | 19,1 |
|                       | 8H  | 18,9                                              | 19,2 | 19,5 | 19,7 | 20,3 | 18,3                                  | 18,6 | 18,9                  | 19,1 |

| Leuchtdichten-Tabelle |                       | Max. für $\gamma \geq 65^\circ$ |                             | Lichttechnische<br>Abmessungen in mm: |                             | L = 852<br>B = 264          |             |
|-----------------------|-----------------------|---------------------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|-------------|
| C-<br>Ebenen          | 0°<br>180°            | 15°<br>165°<br>195°<br>345°     | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315°           | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° |
| $\gamma$              | Leuchtdichte in cd/m² |                                 |                             |                                       |                             |                             |             |
| 45,0°                 | 20595.6               | 19908.0                         | 19011.2                     | 17822.1                               | 16674.5                     | 15583.7                     | 15234.8     |
| 50,0°                 | 15439.9               | 14902.3                         | 14271.1                     | 13423.8                               | 12417.3                     | 11447.6                     | 11123.6     |
| 55,0°                 | 11203.2               | 10899.9                         | 10522.3                     | 9975.7                                | 9207.3                      | 8404.2                      | 8066.4      |
| 60,0°                 | 7686.7                | 7695.0                          | 7838.1                      | 7488.5                                | 7043.3                      | 6354.6                      | 6037.4      |
| 65,0°                 | 5901.6                | 5802.1                          | 5933.6                      | 5837.6                                | 5714.3                      | 5135.2                      | 4854.1      |
| 70,0°                 | 4572.4                | 4517.3                          | 4852.9                      | 4582.9                                | 4755.9                      | 4378.4                      | 4184.4      |
| 75,0°                 | 4008.4                | 3761.8                          | 3770.3                      | 3719.4                                | 3837.3                      | 4001.2                      | 3994.1      |
| 80,0°                 | 2924.3                | 2815.8                          | 2723.9                      | 2773.2                                | 3098.7                      | 3763.0                      | 3839.6      |
| 85,0°                 | 1082.2                | 1069.0                          | 1118.1                      | 1263.9                                | 1940.3                      | 2856.8                      | 3237.4      |

Lichttechnischer Prüfbefund

|                                     |                                                                 |                                     |
|-------------------------------------|-----------------------------------------------------------------|-------------------------------------|
| <b>Familie</b><br><b>Highbay 11</b> | <b>Bestell-Nr.: 51HN11DB4LDA01</b><br><b>EAN: 4069025242655</b> | <b>LP-Nummer</b><br><b>59711_51</b> |
|-------------------------------------|-----------------------------------------------------------------|-------------------------------------|

**Leuchtdichten in cd/m²**

γ 65°

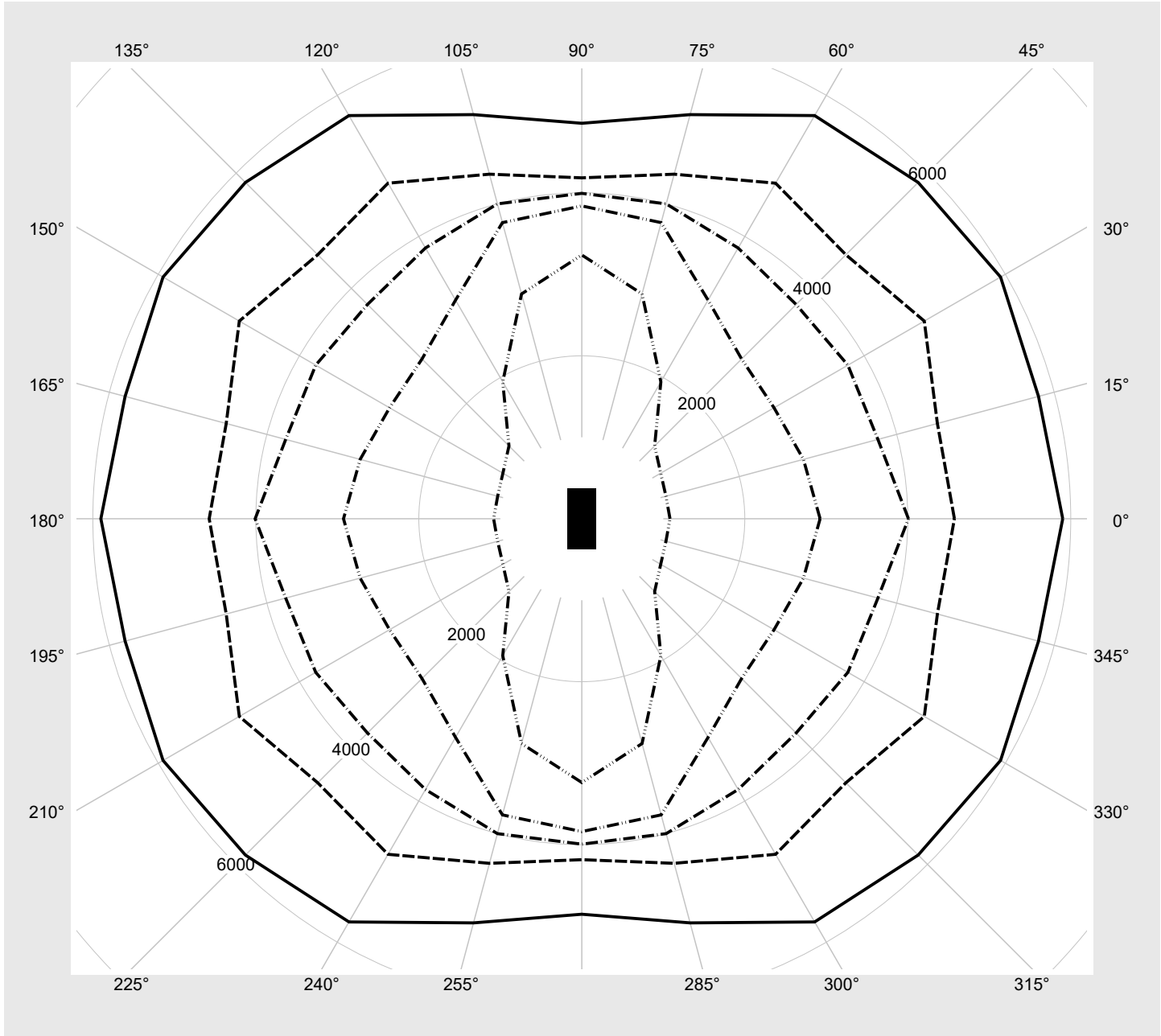
γ 70°

γ 75°

γ 80°

γ 85°

siteco



# Lichttechnischer Prüfbefund

|                                                     |                                                                 |                                                                                     |
|-----------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Familie</b><br><b>Highbay 11</b>                 | <b>Bestell-Nr.: 51HN11DB4LDA01</b><br><b>EAN: 4069025242655</b> | <b>LP-Nummer</b><br><b>59711_51</b>                                                 |
| <b>Dimmstufen-Tabelle</b> Umgebungstemperatur: 25°C |                                                                 |  |

| Lichtstrom<br>[%] | Dimmstufe<br>linear | Dimmstufe<br>logarithmisch | Lichtstrom<br>[lm] | Systemleistung<br>[W] |
|-------------------|---------------------|----------------------------|--------------------|-----------------------|
| 100               | 254                 | 254                        | 26000              | 125.9                 |
| 95                | 241                 | 252                        | 24724              | 119.2                 |
| 90                | 228                 | 250                        | 23439              | 112.7                 |
| 85                | 214                 | 248                        | 22054              | 105.7                 |
| 80                | 201                 | 245                        | 20755              | 99.1                  |
| 75                | 188                 | 243                        | 19459              | 92.7                  |
| 70                | 175                 | 240                        | 18155              | 86.2                  |
| 65                | 163                 | 238                        | 16943              | 80.4                  |
| 60                | 150                 | 235                        | 15629              | 73.9                  |
| 55                | 137                 | 231                        | 14297              | 67.4                  |
| 50                | 124                 | 228                        | 12968              | 61.2                  |
| 45                | 112                 | 224                        | 11732              | 55.2                  |
| 40                | 99                  | 219                        | 10381              | 48.9                  |
| 35                | 87                  | 215                        | 9132               | 43.2                  |
| 30                | 74                  | 209                        | 7766               | 37.0                  |
| 25                | 62                  | 202                        | 6501               | 31.3                  |
| 20                | 50                  | 194                        | 5232               | 25.6                  |
| 15                | 38                  | 184                        | 3949               | 20.0                  |
| 10                | 25                  | 169                        | 2558               | 13.8                  |
| 5                 | 13                  | 145                        | 1260               | 7.9                   |
| 2                 | 6                   | 117                        | 502                | 4.5                   |