

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HN11DA5KDA  
**EAN:** 4069025424136

**LP-Nummer**  
59711\_406



**Ausführung** primäre Lichtlenkung mit Linse, PMMA, Gehäuse, weiß, eng strahlend  
**Bestückung** LED 5000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Einstellung** AC-Betrieb  
**Bemessungswerte** Nettolichtstrom = 22910 lm  
Systemleistung = 117.2 W  
Lichtausbeute = 195.5 lm/W

**Seriendokumentation**  
10.04.2025

siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 2679 cd/klm



**Klassifizierungen**

DIN 5040 A 7 0  
CIE N1=85 N2=97 N3=100  
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 11           | <b>Bestell-Nr.: 51HN11DA5KDA</b><br><b>EAN: 4069025424136</b> | <b>LP-Nummer</b><br>59711_406 |
| <b>Wertetabelle Lichtstärkemessung</b> |   | <b>Maximale Lichtstärke</b>   |
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| C-<br>Ebenen          | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-Zone | Summe<br>Phi-Zone |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------|-------------------|
|                       |            | 165°<br>195°<br>345° | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |          |                   |
| 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            |

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|                              |   |                               |
|------------------------------|---|-------------------------------|
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|------------------------------|---|-------------------------------|

| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 20,4                                | 21,5 | 20,7 | 21,9 | 22,2 | 19,2                                  | 20,4 | 19,5 | 20,7 | 21,0 |
|                 | 3H  | 20,6                                | 21,6 | 21,0 | 22,0 | 22,3 | 19,5                                  | 20,5 | 19,8 | 20,8 | 21,2 |
|                 | 4H  | 20,7                                | 21,6 | 21,1 | 22,0 | 22,4 | 19,6                                  | 20,5 | 20,0 | 20,9 | 21,3 |
|                 | 6H  | 20,7                                | 21,6 | 21,1 | 21,9 | 22,3 | 19,7                                  | 20,6 | 20,2 | 21,0 | 21,4 |
|                 | 8H  | 20,8                                | 21,5 | 21,2 | 21,9 | 22,3 | 19,9                                  | 20,6 | 20,3 | 21,0 | 21,4 |
|                 | 12H | 20,7                                | 21,4 | 21,2 | 21,8 | 22,2 | 19,9                                  | 20,5 | 20,3 | 20,9 | 21,4 |
| 4H              | 2H  | 20,4                                | 21,4 | 20,8 | 21,7 | 22,1 | 19,4                                  | 20,3 | 19,8 | 20,7 | 21,0 |
|                 | 3H  | 20,7                                | 21,5 | 21,2 | 21,9 | 22,3 | 19,8                                  | 20,6 | 20,2 | 20,9 | 21,4 |
|                 | 4H  | 20,9                                | 21,6 | 21,3 | 22,0 | 22,4 | 20,0                                  | 20,7 | 20,4 | 21,1 | 21,5 |
|                 | 6H  | 20,9                                | 21,5 | 21,4 | 22,0 | 22,4 | 20,2                                  | 20,7 | 20,6 | 21,2 | 21,7 |
|                 | 8H  | 20,9                                | 21,4 | 21,4 | 21,9 | 22,4 | 20,2                                  | 20,8 | 20,7 | 21,2 | 21,7 |
|                 | 12H | 20,9                                | 21,3 | 21,4 | 21,8 | 22,3 | 20,3                                  | 20,7 | 20,8 | 21,2 | 21,7 |
| 8H              | 4H  | 20,8                                | 21,4 | 21,3 | 21,8 | 22,3 | 20,0                                  | 20,5 | 20,5 | 21,0 | 21,4 |
|                 | 6H  | 20,9                                | 21,3 | 21,4 | 21,8 | 22,3 | 20,2                                  | 20,6 | 20,7 | 21,1 | 21,6 |
|                 | 8H  | 20,9                                | 21,3 | 21,4 | 21,8 | 22,3 | 20,3                                  | 20,7 | 20,8 | 21,2 | 21,7 |
|                 | 12H | 20,9                                | 21,2 | 21,4 | 21,7 | 22,2 | 20,4                                  | 20,7 | 20,9 | 21,2 | 21,7 |
| 12H             | 4H  | 20,8                                | 21,3 | 21,3 | 21,7 | 22,2 | 20,0                                  | 20,4 | 20,5 | 20,9 | 21,4 |
|                 | 6H  | 20,9                                | 21,3 | 21,4 | 21,7 | 22,3 | 20,2                                  | 20,5 | 20,7 | 21,0 | 21,6 |
|                 | 8H  | 20,9                                | 21,2 | 21,4 | 21,7 | 22,2 | 20,3                                  | 20,6 | 20,8 | 21,1 | 21,7 |

|  |  |
|--|--|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 426<br>B = 264 |
|--|--|

| C-Ebenen | $\gamma$ | Leuchtdichte in cd/m <sup>2</sup> |                             |                             |                             |                             |                             |             |  |
|----------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
|          |          | 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° |  |
| 45,0°    |          | 36295.7                           | 35084.0                     | 33503.6                     | 31408.0                     | 29385.6                     | 27463.2                     | 26848.4     |  |
| 50,0°    |          | 27209.8                           | 26262.5                     | 25150.1                     | 23656.8                     | 21883.0                     | 20174.2                     | 19603.2     |  |
| 55,0°    |          | 19743.5                           | 19209.0                     | 18543.5                     | 17580.3                     | 16226.1                     | 14810.8                     | 14215.5     |  |
| 60,0°    |          | 13546.3                           | 13561.0                     | 13813.1                     | 13197.1                     | 12412.4                     | 11198.7                     | 10639.8     |  |
| 65,0°    |          | 10400.5                           | 10225.0                     | 10456.9                     | 10287.7                     | 10070.3                     | 9049.9                      | 8554.4      |  |
| 70,0°    |          | 8058.0                            | 7960.9                      | 8552.3                      | 8076.4                      | 8381.4                      | 7716.1                      | 7374.2      |  |
| 75,0°    |          | 7064.0                            | 6629.5                      | 6644.5                      | 6554.7                      | 6762.5                      | 7051.4                      | 7038.8      |  |
| 80,0°    |          | 5153.5                            | 4962.3                      | 4800.4                      | 4887.2                      | 5460.9                      | 6631.6                      | 6766.5      |  |
| 85,0°    |          | 1907.2                            | 1883.9                      | 1970.3                      | 2227.5                      | 3419.5                      | 5034.6                      | 5705.4      |  |

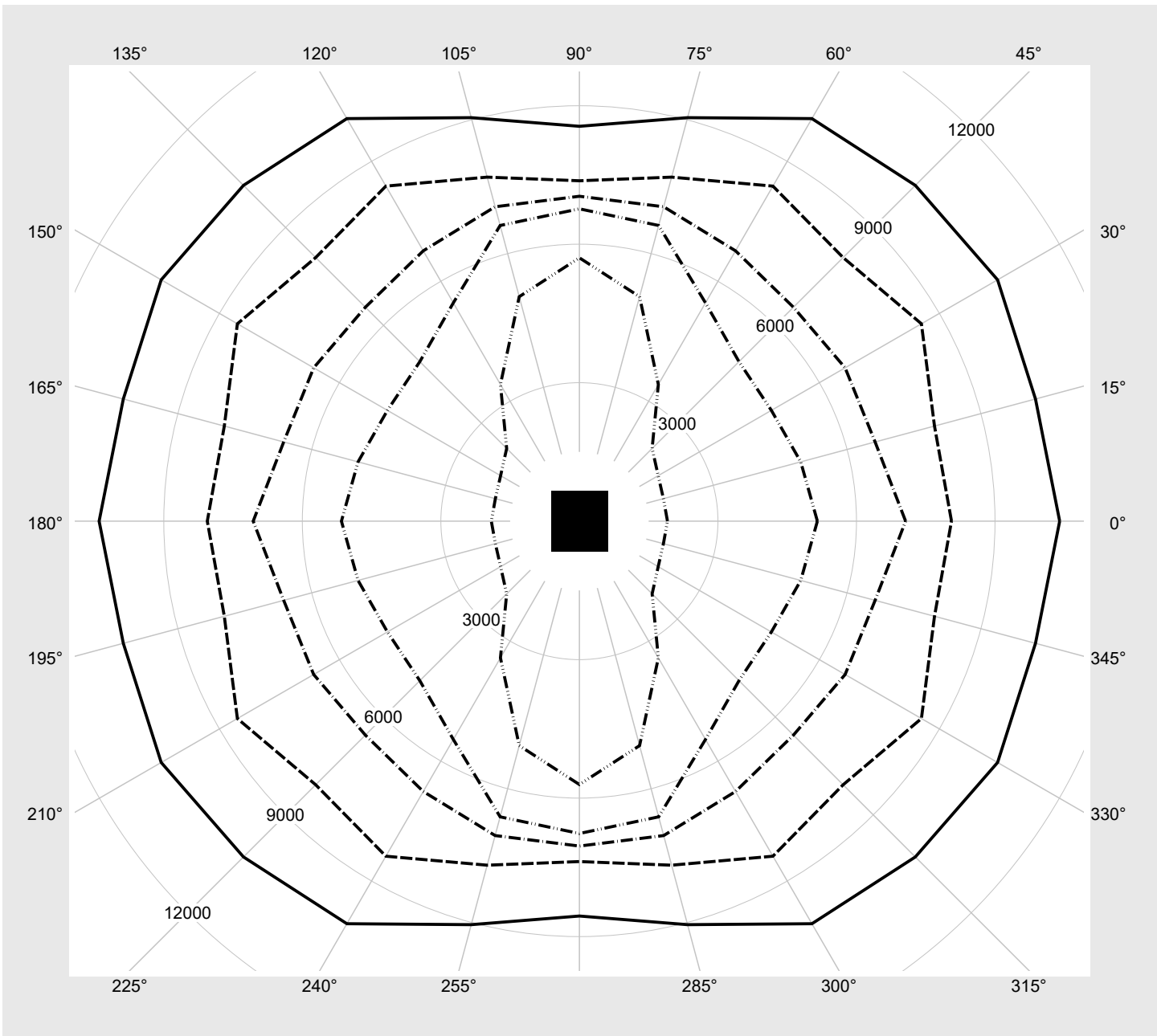
**Lichttechnischer Prüfbefund**

|                                     |   |                                      |
|-------------------------------------|---|--------------------------------------|
| <b>Familie</b><br><b>Highbay 11</b> | <b>Bestell-Nr.: 51HN11DA5KDA</b><br><b>EAN: 4069025424136</b> | <b>LP-Nummer</b><br><b>59711_406</b> |
|-------------------------------------|---|--------------------------------------|

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

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

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|                              |   |                                      |
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|------------------------------|---|--------------------------------------|

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

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 22910           | 117.2              |
| 95             | 240              | 252                     | 21730           | 110.5              |
| 90             | 227              | 250                     | 20629           | 104.4              |
| 85             | 213              | 248                     | 19431           | 97.8               |
| 80             | 200              | 245                     | 18314           | 91.6               |
| 75             | 187              | 243                     | 17185           | 85.6               |
| 70             | 174              | 240                     | 16054           | 79.5               |
| 65             | 161              | 237                     | 14910           | 73.5               |
| 60             | 148              | 234                     | 13760           | 67.6               |
| 55             | 135              | 231                     | 12600           | 61.6               |
| 50             | 122              | 227                     | 11433           | 55.6               |
| 45             | 110              | 223                     | 10349           | 50.1               |
| 40             | 97               | 219                     | 9159            | 44.3               |
| 35             | 85               | 214                     | 8055            | 38.9               |
| 30             | 72               | 208                     | 6844            | 33.1               |
| 25             | 60               | 201                     | 5720            | 27.8               |
| 20             | 48               | 193                     | 4586            | 22.6               |
| 15             | 36               | 182                     | 3435            | 17.4               |
| 10             | 24               | 168                     | 2279            | 12.0               |
| 5              | 12               | 142                     | 1106            | 6.5                |
| 2              | 6                | 117                     | 517             | 3.8                |