

Lichttechnischer Prüfbefund

Familie

Highbay 11

Bestell-Nr.: 51HN31DB4RDA

EAN: 4069025256454

LP-Nummer

59711\_222

Ausführung

primäre Lichtlenkung mit Linse, PMMA, Gehäuse, schwarz, eng strahlend

Bestückung

LED 4000 K | CRI ≥ 80

Betriebsgerät

EVG-DALI

Einstellung

DC Betrieb (Zentral- / Gruppenakku) Initiales Notlichtlevel

Bemessungswerte

Nettolichtstrom = 6720 lm

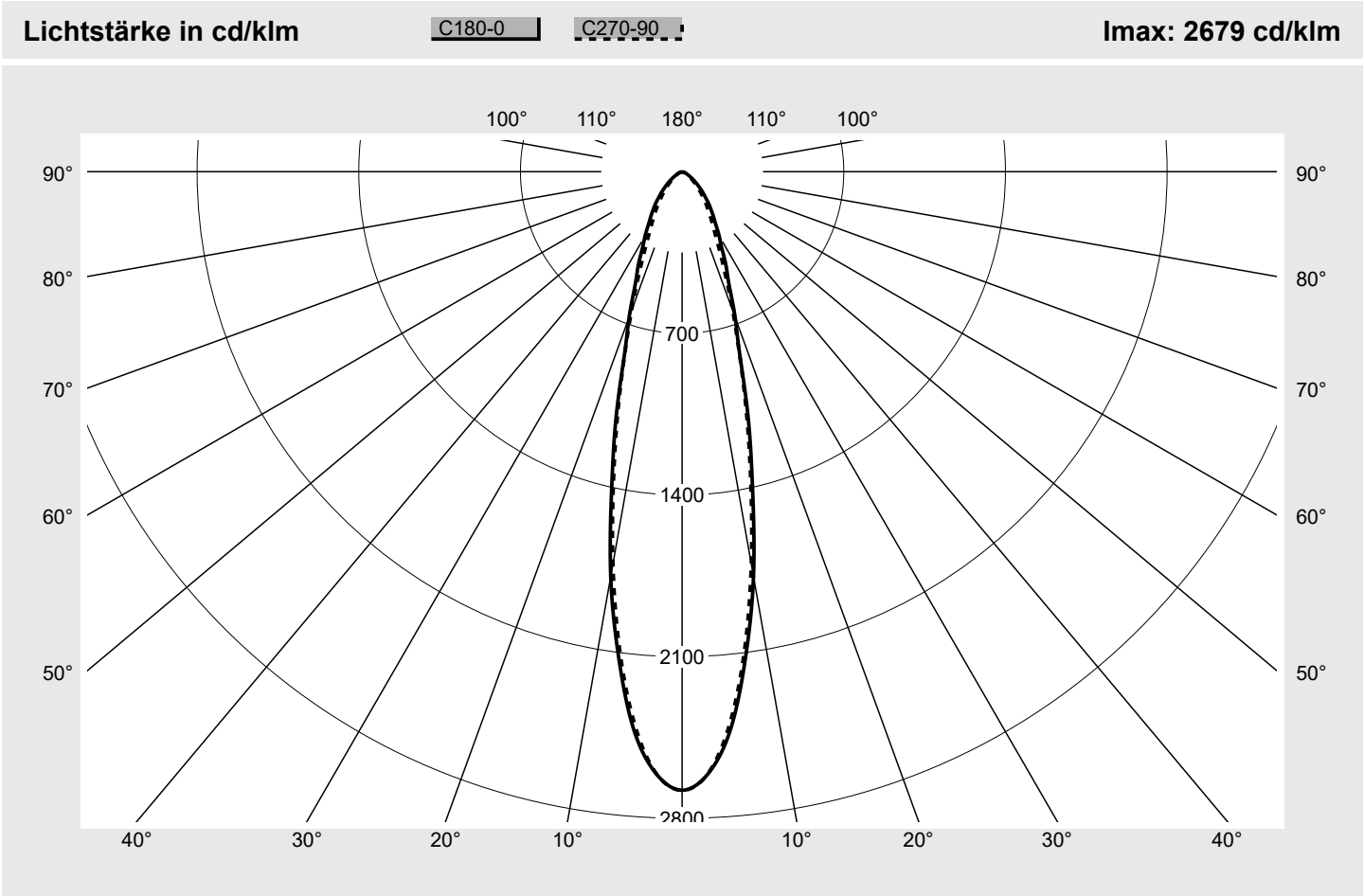
Systemleistung = 32.8 W

Lichtausbeute = 204.9 lm/W

Seriedokumentation

14.02.2025

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| Klassifizierungen |                    | Leuchtenbetriebswirkungsgrade |        |
|-------------------|--------------------|-------------------------------|--------|
| DIN 5040          | A 7 0              | $\eta_{LB}$                   | 100,0% |
| CIE               | N1=85 N2=97 N3=100 | $\phi_u$                      | 100,0% |
|                   | N4=100 N5=100      | $\phi_o$                      | 0,0%   |

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

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|                                 |                                                 |                        |
|---------------------------------|-------------------------------------------------|------------------------|
| Familie<br>Highbay 11           | Bestell-Nr.: 51HN31DB4RDA<br>EAN: 4069025256454 | LP-Nummer<br>59711_222 |
| Wertetabelle Lichtstärkemessung |                                                 | Maximale Lichtstärke   |

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| 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            |

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|                       |     |                                     |                                                 |      |      |      |                                       |      |                        |      |      |
|-----------------------|-----|-------------------------------------|-------------------------------------------------|------|------|------|---------------------------------------|------|------------------------|------|------|
| Familie<br>Highbay 11 |     |                                     | Bestell-Nr.: 51HN31DB4RDA<br>EAN: 4069025256454 |      |      |      |                                       |      | LP-Nummer<br>59711_222 |      |      |
| 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  | 13,7                                | 14,9                                            | 14,1 | 15,2 | 15,5 | 12,5                                  | 13,7 | 12,9                   | 14,0 | 14,3 |
|                       | 3H  | 13,9                                | 15,0                                            | 14,3 | 15,3 | 15,7 | 12,8                                  | 13,8 | 13,2                   | 14,2 | 14,5 |
|                       | 4H  | 14,0                                | 15,0                                            | 14,4 | 15,3 | 15,7 | 12,9                                  | 13,9 | 13,3                   | 14,2 | 14,6 |
|                       | 6H  | 14,1                                | 14,9                                            | 14,5 | 15,3 | 15,7 | 13,1                                  | 13,9 | 13,5                   | 14,3 | 14,7 |
|                       | 8H  | 14,1                                | 14,8                                            | 14,5 | 15,2 | 15,6 | 13,2                                  | 13,9 | 13,6                   | 14,3 | 14,7 |
|                       | 12H | 14,1                                | 14,7                                            | 14,5 | 15,1 | 15,6 | 13,2                                  | 13,9 | 13,6                   | 14,3 | 14,7 |
| 4H                    | 2H  | 13,8                                | 14,7                                            | 14,2 | 15,1 | 15,4 | 12,7                                  | 13,6 | 13,1                   | 14,0 | 14,4 |
|                       | 3H  | 14,1                                | 14,9                                            | 14,5 | 15,2 | 15,7 | 13,1                                  | 13,9 | 13,5                   | 14,3 | 14,7 |
|                       | 4H  | 14,2                                | 14,9                                            | 14,6 | 15,3 | 15,7 | 13,3                                  | 14,0 | 13,7                   | 14,4 | 14,8 |
|                       | 6H  | 14,3                                | 14,8                                            | 14,7 | 15,3 | 15,8 | 13,5                                  | 14,1 | 14,0                   | 14,5 | 15,0 |
|                       | 8H  | 14,3                                | 14,8                                            | 14,7 | 15,2 | 15,7 | 13,6                                  | 14,1 | 14,1                   | 14,5 | 15,0 |
|                       | 12H | 14,2                                | 14,7                                            | 14,7 | 15,1 | 15,6 | 13,6                                  | 14,1 | 14,1                   | 14,5 | 15,0 |
| 8H                    | 4H  | 14,2                                | 14,7                                            | 14,7 | 15,1 | 15,6 | 13,3                                  | 13,8 | 13,8                   | 14,3 | 14,8 |
|                       | 6H  | 14,3                                | 14,7                                            | 14,8 | 15,2 | 15,7 | 13,6                                  | 14,0 | 14,1                   | 14,4 | 15,0 |
|                       | 8H  | 14,2                                | 14,6                                            | 14,8 | 15,1 | 15,6 | 13,6                                  | 14,0 | 14,2                   | 14,5 | 15,0 |
|                       | 12H | 14,2                                | 14,5                                            | 14,7 | 15,0 | 15,6 | 13,7                                  | 14,0 | 14,2                   | 14,5 | 15,1 |
| 12H                   | 4H  | 14,2                                | 14,6                                            | 14,7 | 15,1 | 15,6 | 13,3                                  | 13,7 | 13,8                   | 14,2 | 14,7 |
|                       | 6H  | 14,2                                | 14,6                                            | 14,8 | 15,1 | 15,6 | 13,5                                  | 13,9 | 14,1                   | 14,4 | 14,9 |
|                       | 8H  | 14,2                                | 14,5                                            | 14,7 | 15,0 | 15,6 | 13,6                                  | 13,9 | 14,2                   | 14,4 | 15,0 |

| 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°                 | 5323.2                | 5145.5                          | 4913.7                      | 4606.3                                | 4309.7                      | 4027.8                      | 3937.6      |
| 50,0°                 | 3990.6                | 3851.7                          | 3688.5                      | 3469.5                                | 3209.4                      | 2958.8                      | 2875.0      |
| 55,0°                 | 2895.6                | 2817.2                          | 2719.6                      | 2578.3                                | 2379.7                      | 2172.2                      | 2084.9      |
| 60,0°                 | 1986.7                | 1988.9                          | 2025.8                      | 1935.5                                | 1820.4                      | 1642.4                      | 1560.4      |
| 65,0°                 | 1525.3                | 1499.6                          | 1533.6                      | 1508.8                                | 1476.9                      | 1327.3                      | 1254.6      |
| 70,0°                 | 1181.8                | 1167.6                          | 1254.3                      | 1184.5                                | 1229.2                      | 1131.6                      | 1081.5      |
| 75,0°                 | 1036.0                | 972.3                           | 974.5                       | 961.3                                 | 991.8                       | 1034.2                      | 1032.3      |
| 80,0°                 | 755.8                 | 727.8                           | 704.0                       | 716.8                                 | 800.9                       | 972.6                       | 992.4       |
| 85,0°                 | 279.7                 | 276.3                           | 289.0                       | 326.7                                 | 501.5                       | 738.4                       | 836.8       |

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**Familie**  
**Highbay 11**

**Bestell-Nr.: 51HN31DB4RDA**  
**EAN: 4069025256454**

**LP-Nummer**  
**59711\_222**

**Leuchtdichten in cd/m²**

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

sit

eco

