

## Lichttechnischer Prüfbefund

**Familie**  
**Highbay 11**

**Bestell-Nr.: 51HN12DA4HBA**  
**EAN: 4069025440389**

**LP-Nummer**  
**59710\_354**

**Seriendokumentation**  
**18.03.2025**



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

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Einstellung** DC Betrieb (Zentral- / Gruppenakku) Initiales Notlichtlevel

**Bemessungswerte** Nettolichtstrom = 2890 lm  
Systemleistung = 14.5 W  
Lichtausbeute = 199.3 lm/W

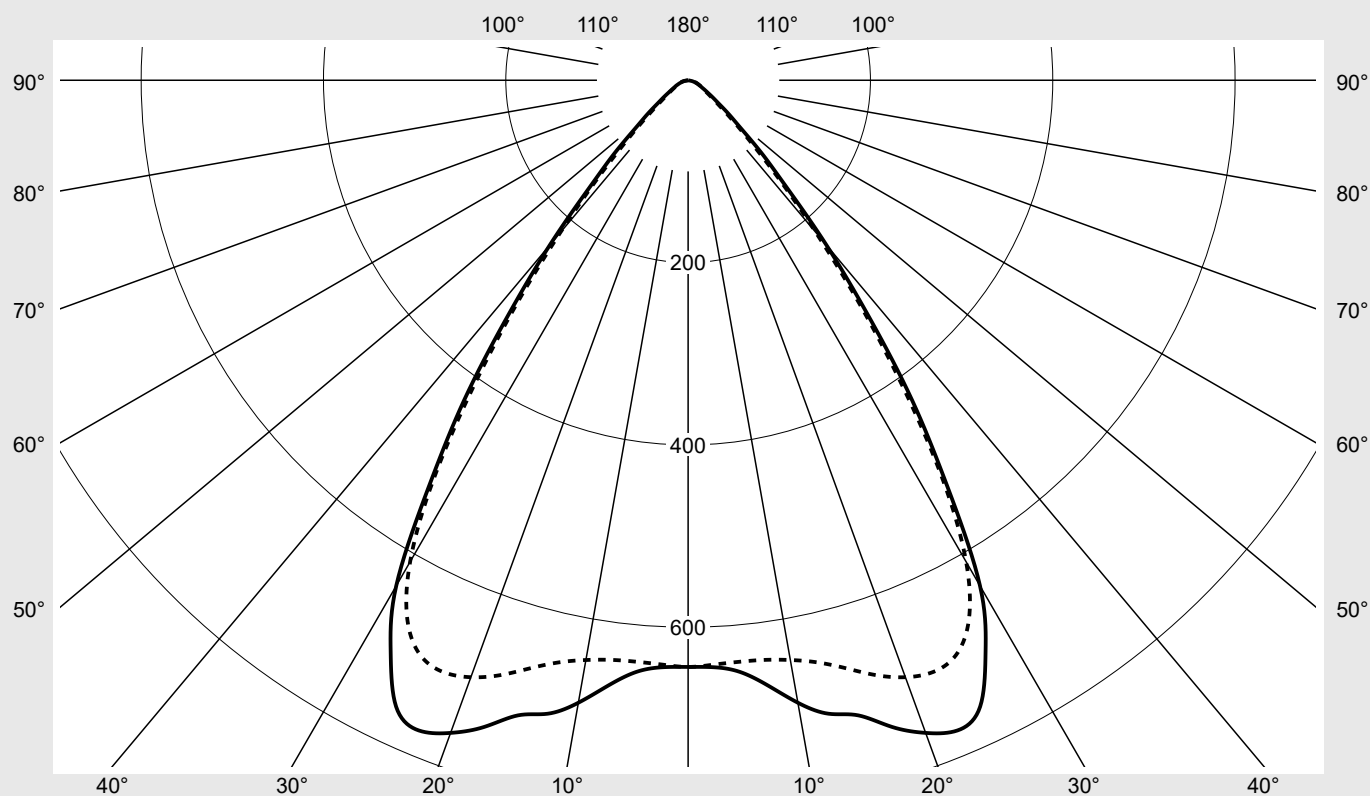
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 772 cd/klm**



### Klassifizierungen

DIN 5040 A 6 0  
CIE N1=88 N2=98 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

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|                                 |                                                 |                        |
|---------------------------------|-------------------------------------------------|------------------------|
| Familie<br>Highbay 11           | Bestell-Nr.: 51HN12DA4HBA<br>EAN: 4069025440389 | LP-Nummer<br>59710_354 |
| Wertetabelle Lichtstärkemessung |                                                 | Maximale Lichtstärke   |

sitEco

| 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°         | 643.6                 | 643.6                       | 643.6                       | 643.6                       | 643.6                       | 643.6                       | 643.6       | 1.0                  | 1.0               |
| 2,5°         | 644.5                 | 645.1                       | 645.0                       | 644.3                       | 644.2                       | 643.7                       | 641.7       | 7.7                  | 8.7               |
| 5,0°         | 651.5                 | 652.3                       | 650.7                       | 647.5                       | 645.3                       | 643.2                       | 640.4       | 15.5                 | 24.1              |
| 7,5°         | 669.6                 | 669.1                       | 664.2                       | 657.2                       | 651.2                       | 645.8                       | 641.3       | 23.5                 | 47.6              |
| 10,0°        | 693.4                 | 691.0                       | 681.5                       | 670.0                       | 659.9                       | 651.2                       | 645.8       | 31.9                 | 79.6              |
| 12,5°        | 711.8                 | 709.4                       | 700.3                       | 685.9                       | 671.9                       | 660.7                       | 654.0       | 40.7                 | 120.2             |
| 15,0°        | 721.3                 | 721.7                       | 717.1                       | 704.9                       | 689.4                       | 675.9                       | 667.7       | 49.7                 | 169.9             |
| 17,5°        | 743.8                 | 740.8                       | 737.9                       | 726.5                       | 708.9                       | 693.0                       | 684.2       | 59.4                 | 229.3             |
| 20,0°        | 761.9                 | 761.9                       | 759.6                       | 745.2                       | 724.0                       | 705.6                       | 696.8       | 69.2                 | 298.5             |
| 22,5°        | 772.0                 | 771.2                       | 770.0                       | 754.7                       | 731.1                       | 710.8                       | 702.6       | 78.2                 | 376.7             |
| 25,0°        | 758.1                 | 756.6                       | 756.3                       | 743.6                       | 722.7                       | 703.3                       | 695.6       | 85.1                 | 461.8             |
| 27,5°        | 706.7                 | 709.5                       | 709.5                       | 700.0                       | 685.7                       | 672.3                       | 667.0       | 87.8                 | 549.7             |
| 30,0°        | 640.4                 | 635.6                       | 633.7                       | 626.6                       | 621.7                       | 614.1                       | 609.9       | 85.8                 | 635.5             |
| 32,5°        | 530.6                 | 537.6                       | 535.6                       | 526.2                       | 530.2                       | 524.1                       | 520.8       | 78.1                 | 713.6             |
| 35,0°        | 428.2                 | 426.4                       | 425.9                       | 411.9                       | 420.8                       | 414.2                       | 411.4       | 66.0                 | 779.6             |
| 37,5°        | 322.5                 | 323.4                       | 327.0                       | 311.0                       | 319.4                       | 310.8                       | 308.2       | 53.0                 | 832.6             |
| 40,0°        | 236.1                 | 234.0                       | 241.6                       | 230.8                       | 230.9                       | 219.8                       | 218.4       | 40.7                 | 873.3             |
| 42,5°        | 162.3                 | 165.3                       | 172.9                       | 171.1                       | 161.7                       | 151.3                       | 150.8       | 30.2                 | 903.5             |
| 45,0°        | 117.3                 | 114.9                       | 119.4                       | 122.5                       | 109.3                       | 102.6                       | 102.3       | 21.9                 | 925.4             |
| 47,5°        | 80.5                  | 81.4                        | 82.8                        | 85.5                        | 75.2                        | 71.4                        | 70.8        | 15.9                 | 941.3             |
| 50,0°        | 59.4                  | 58.0                        | 58.0                        | 59.0                        | 52.9                        | 50.5                        | 49.6        | 11.7                 | 953.0             |
| 52,5°        | 43.3                  | 42.8                        | 42.8                        | 43.0                        | 39.3                        | 37.2                        | 36.6        | 8.9                  | 961.8             |
| 55,0°        | 33.3                  | 32.4                        | 32.9                        | 33.7                        | 30.5                        | 28.7                        | 28.3        | 7.1                  | 968.9             |
| 57,5°        | 25.9                  | 25.4                        | 25.9                        | 26.8                        | 24.5                        | 22.9                        | 22.9        | 5.8                  | 974.7             |
| 60,0°        | 20.9                  | 20.2                        | 21.2                        | 21.8                        | 20.4                        | 18.9                        | 19.2        | 4.9                  | 979.5             |
| 62,5°        | 16.9                  | 16.2                        | 17.4                        | 18.0                        | 17.2                        | 15.9                        | 16.4        | 4.1                  | 983.6             |
| 65,0°        | 14.9                  | 13.6                        | 14.4                        | 15.1                        | 14.8                        | 13.6                        | 14.4        | 3.6                  | 987.2             |
| 67,5°        | 12.3                  | 11.4                        | 12.5                        | 12.4                        | 13.0                        | 11.7                        | 12.6        | 3.1                  | 990.3             |
| 70,0°        | 10.4                  | 9.5                         | 10.5                        | 10.1                        | 11.1                        | 10.1                        | 11.0        | 2.7                  | 993.0             |
| 72,5°        | 8.2                   | 7.7                         | 7.9                         | 8.2                         | 8.7                         | 8.6                         | 9.5         | 2.2                  | 995.2             |
| 75,0°        | 6.5                   | 6.0                         | 6.0                         | 6.4                         | 6.6                         | 7.1                         | 7.9         | 1.7                  | 996.9             |
| 77,5°        | 4.5                   | 4.3                         | 4.4                         | 4.7                         | 5.1                         | 5.6                         | 6.3         | 1.3                  | 998.2             |
| 80,0°        | 2.9                   | 2.7                         | 2.9                         | 3.1                         | 3.5                         | 4.1                         | 4.7         | 0.9                  | 999.1             |
| 82,5°        | 1.3                   | 1.4                         | 1.6                         | 1.8                         | 2.2                         | 2.7                         | 3.3         | 0.5                  | 999.7             |
| 85,0°        | 0.6                   | 0.6                         | 0.6                         | 0.7                         | 1.0                         | 1.4                         | 1.8         | 0.3                  | 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.: 51HN12DA4HBA<br>EAN: 4069025440389 |      |      |      |                                       |      | LP-Nummer<br>59710_354 |      |      |
| 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  | 14,2                                | 15,5                                            | 14,6 | 15,8 | 16,1 | 13,9                                  | 15,2 | 14,3                   | 15,5 | 15,8 |
|                       | 3H  | 14,2                                | 15,3                                            | 14,6 | 15,7 | 16,0 | 13,9                                  | 15,1 | 14,3                   | 15,4 | 15,7 |
|                       | 4H  | 14,2                                | 15,2                                            | 14,6 | 15,6 | 16,0 | 13,9                                  | 15,0 | 14,3                   | 15,3 | 15,7 |
|                       | 6H  | 14,2                                | 15,1                                            | 14,6 | 15,5 | 15,9 | 14,0                                  | 14,9 | 14,4                   | 15,3 | 15,7 |
|                       | 8H  | 14,2                                | 15,0                                            | 14,7 | 15,4 | 15,8 | 14,1                                  | 14,9 | 14,5                   | 15,2 | 15,7 |
|                       | 12H | 14,2                                | 14,9                                            | 14,6 | 15,3 | 15,8 | 14,1                                  | 14,8 | 14,5                   | 15,2 | 15,6 |
| 4H                    | 2H  | 14,1                                | 15,1                                            | 14,5 | 15,5 | 15,9 | 13,8                                  | 14,8 | 14,2                   | 15,2 | 15,6 |
|                       | 3H  | 14,1                                | 15,0                                            | 14,6 | 15,4 | 15,8 | 13,9                                  | 14,7 | 14,3                   | 15,1 | 15,5 |
|                       | 4H  | 14,1                                | 14,9                                            | 14,6 | 15,3 | 15,7 | 13,9                                  | 14,7 | 14,4                   | 15,1 | 15,5 |
|                       | 6H  | 14,1                                | 14,8                                            | 14,6 | 15,2 | 15,7 | 14,0                                  | 14,6 | 14,4                   | 15,1 | 15,5 |
|                       | 8H  | 14,1                                | 14,7                                            | 14,6 | 15,1 | 15,6 | 14,0                                  | 14,6 | 14,5                   | 15,0 | 15,5 |
|                       | 12H | 14,1                                | 14,6                                            | 14,6 | 15,0 | 15,5 | 14,0                                  | 14,5 | 14,5                   | 15,0 | 15,5 |
| 8H                    | 4H  | 14,1                                | 14,6                                            | 14,5 | 15,1 | 15,6 | 13,9                                  | 14,4 | 14,3                   | 14,9 | 15,4 |
|                       | 6H  | 14,0                                | 14,5                                            | 14,5 | 15,0 | 15,5 | 13,9                                  | 14,4 | 14,4                   | 14,9 | 15,4 |
|                       | 8H  | 14,0                                | 14,4                                            | 14,5 | 14,9 | 15,4 | 13,9                                  | 14,3 | 14,4                   | 14,8 | 15,4 |
|                       | 12H | 14,0                                | 14,3                                            | 14,5 | 14,8 | 15,4 | 14,0                                  | 14,3 | 14,5                   | 14,8 | 15,3 |
| 12H                   | 4H  | 14,1                                | 14,5                                            | 14,6 | 15,0 | 15,5 | 13,9                                  | 14,3 | 14,4                   | 14,8 | 15,3 |
|                       | 6H  | 14,0                                | 14,4                                            | 14,6 | 14,9 | 15,4 | 13,9                                  | 14,3 | 14,4                   | 14,8 | 15,3 |
|                       | 8H  | 14,0                                | 14,3                                            | 14,5 | 14,8 | 15,4 | 13,9                                  | 14,2 | 14,5                   | 14,8 | 15,3 |

| Leuchtdichten-Tabelle |                       | Max. für $\gamma \geq 65^\circ$ |                             | Lichttechnische Abmessungen in mm: |                             | L = 426<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°                 | 4263.7                | 4175.0                          | 4339.8                      | 4451.0                             | 3970.9                      | 3728.3                      | 3717.3      |
| 50,0°                 | 2375.6                | 2319.4                          | 2317.0                      | 2358.4                             | 2116.3                      | 2017.8                      | 1983.2      |
| 55,0°                 | 1492.9                | 1453.0                          | 1473.7                      | 1507.6                             | 1367.6                      | 1285.5                      | 1270.1      |
| 60,0°                 | 1073.8                | 1036.6                          | 1089.1                      | 1121.8                             | 1050.3                      | 972.7                       | 985.1       |
| 65,0°                 | 906.0                 | 824.2                           | 878.5                       | 916.4                              | 897.4                       | 829.9                       | 876.7       |
| 70,0°                 | 778.8                 | 710.5                           | 786.0                       | 760.4                              | 834.2                       | 759.4                       | 829.3       |
| 75,0°                 | 641.8                 | 594.4                           | 592.8                       | 634.0                              | 658.8                       | 705.1                       | 786.0       |
| 80,0°                 | 433.3                 | 404.3                           | 427.8                       | 462.2                              | 521.6                       | 613.5                       | 699.4       |
| 85,0°                 | 173.1                 | 172.2                           | 177.8                       | 208.2                              | 307.8                       | 410.1                       | 531.3       |

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|                                                                                                                                 |                                                               |                                      |  |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------|--|
| <b>Familie</b><br><b>Highbay 11</b>                                                                                             | <b>Bestell-Nr.: 51HN12DA4HBA</b><br><b>EAN: 4069025440389</b> | <b>LP-Nummer</b><br><b>59710_354</b> |  |
| <b>Leuchtdichten in cd/m²</b> <div> <div>γ 65°</div> <div>γ 70°</div> <div>γ 75°</div> <div>γ 80°</div> <div>γ 85°</div> </div> |                                                               |                                      |  |

