

Lichttechnischer Prüfbefund

Familie

Highbay 21

Bestell-Nr.: 52HN12DA4FLA03

EAN: 4069025421586

LP-Nummer

59723\_187

Ausführung

primäre Lichtlenkung mit Linse, PMMA, Gehäuse, weiß, für Licross® Schiene, breit strahlend, mit Multisensor DALI

Bestückung

LED 4000 K | CRI ≥ 80

Betriebsgerät

EVG-DALI

Bemessungswerte

Nettolichtstrom = 14000 lm

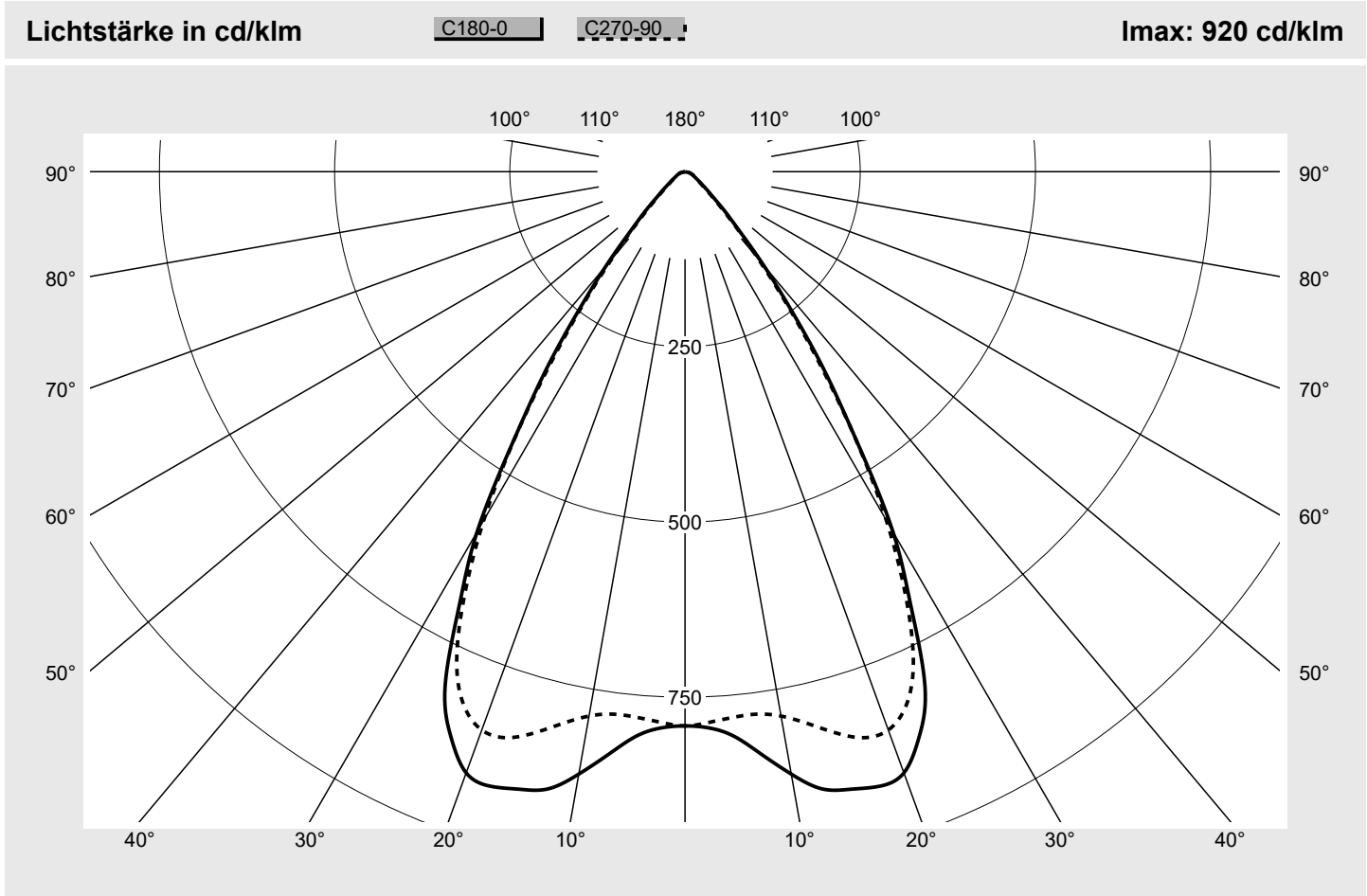
Systemleistung = 72.1 W

Lichtausbeute = 194.2 lm/W

Seriedokumentation

20.03.2025

siteco



| Klassifizierungen |                    | Leuchtenbetriebswirkungsgrade |        |
|-------------------|--------------------|-------------------------------|--------|
| DIN 5040          | A 7 0              | $\eta_{LB}$                   | 100,0% |
| CIE               | N1=90 N2=98 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 21           | Bestell-Nr.: 52HN12DA4FLA03<br>EAN: 4069025421586 | LP-Nummer<br>59723_187 |
| Wertetabelle Lichtstärkemessung | Maximale Lichtstärke                              | siteco                 |

| C-<br>Ebenen | 0,0°<br>180,0°        | 7,5°<br>172,5°<br>187,5°<br>352,5° | 15,0°<br>165,0°<br>195,0°<br>345,0° | 22,5°<br>157,5°<br>202,5°<br>337,5° | 30,0°<br>150,0°<br>210,0°<br>330,0° | 37,5°<br>142,5°<br>217,5°<br>322,5° | 45,0°<br>135,0°<br>225,0°<br>315,0° |
|--------------|-----------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| γ            | Lichtstärke in cd/klm |                                    |                                     |                                     |                                     |                                     |                                     |
| 0,0°         | 791.0                 | 791.0                              | 791.0                               | 791.0                               | 791.0                               | 791.0                               | 791.0                               |
| 2,5°         | 794.7                 | 794.4                              | 795.0                               | 795.0                               | 794.2                               | 792.8                               | 792.0                               |
| 5,0°         | 809.1                 | 811.4                              | 809.6                               | 807.9                               | 804.8                               | 800.8                               | 797.1                               |
| 7,5°         | 839.0                 | 837.9                              | 835.9                               | 831.3                               | 824.9                               | 817.3                               | 810.1                               |
| 10,0°        | 873.0                 | 873.9                              | 866.7                               | 857.6                               | 846.5                               | 834.6                               | 825.0                               |
| 12,5°        | 902.2                 | 899.8                              | 892.6                               | 881.8                               | 868.2                               | 853.9                               | 842.5                               |
| 15,0°        | 912.4                 | 911.0                              | 905.2                               | 895.6                               | 883.1                               | 869.5                               | 858.7                               |
| 17,5°        | 919.8                 | 918.2                              | 913.1                               | 904.4                               | 892.7                               | 879.7                               | 870.3                               |
| 20,0°        | 913.1                 | 910.4                              | 906.8                               | 900.7                               | 891.6                               | 880.0                               | 870.9                               |
| 22,5°        | 873.0                 | 875.7                              | 872.3                               | 868.8                               | 863.2                               | 854.7                               | 847.2                               |
| 25,0°        | 810.1                 | 803.4                              | 805.6                               | 804.0                               | 800.6                               | 794.9                               | 789.9                               |
| 27,5°        | 697.5                 | 704.9                              | 702.5                               | 701.8                               | 699.9                               | 697.0                               | 693.3                               |
| 30,0°        | 593.2                 | 587.4                              | 585.8                               | 584.9                               | 582.5                               | 580.2                               | 578.9                               |
| 32,5°        | 456.1                 | 464.3                              | 462.1                               | 462.0                               | 458.3                               | 454.5                               | 453.6                               |
| 35,0°        | 347.7                 | 343.4                              | 342.9                               | 343.5                               | 340.5                               | 335.4                               | 333.2                               |
| 37,5°        | 248.6                 | 249.1                              | 246.7                               | 247.3                               | 245.8                               | 241.7                               | 237.9                               |
| 40,0°        | 174.7                 | 169.8                              | 171.0                               | 172.0                               | 172.0                               | 169.5                               | 166.1                               |
| 42,5°        | 115.9                 | 118.7                              | 117.3                               | 118.1                               | 118.9                               | 118.2                               | 116.5                               |
| 45,0°        | 82.2                  | 79.8                               | 80.4                                | 81.1                                | 81.3                                | 81.6                                | 80.9                                |
| 47,5°        | 56.5                  | 57.6                               | 57.2                                | 57.7                                | 57.6                                | 57.9                                | 57.5                                |
| 50,0°        | 42.4                  | 41.3                               | 41.7                                | 42.1                                | 42.1                                | 42.1                                | 42.0                                |
| 52,5°        | 32.0                  | 31.8                               | 31.7                                | 32.2                                | 32.5                                | 32.7                                | 32.7                                |
| 55,0°        | 25.6                  | 24.9                               | 25.0                                | 25.6                                | 26.1                                | 26.6                                | 26.9                                |
| 57,5°        | 20.6                  | 20.3                               | 20.3                                | 20.8                                | 21.4                                | 22.1                                | 22.4                                |
| 60,0°        | 17.2                  | 16.8                               | 16.6                                | 17.2                                | 18.2                                | 18.6                                | 18.9                                |
| 62,5°        | 14.5                  | 14.3                               | 13.9                                | 14.3                                | 15.3                                | 15.8                                | 16.0                                |
| 65,0°        | 13.1                  | 12.5                               | 12.0                                | 12.2                                | 13.0                                | 13.5                                | 13.7                                |
| 67,5°        | 11.1                  | 10.9                               | 10.3                                | 10.4                                | 11.4                                | 11.4                                | 11.5                                |
| 70,0°        | 9.4                   | 9.0                                | 8.7                                 | 8.7                                 | 9.6                                 | 9.3                                 | 9.5                                 |
| 72,5°        | 7.6                   | 7.5                                | 7.3                                 | 7.2                                 | 7.3                                 | 7.4                                 | 7.8                                 |
| 75,0°        | 5.9                   | 5.7                                | 5.6                                 | 5.7                                 | 5.6                                 | 5.7                                 | 6.1                                 |
| 77,5°        | 4.1                   | 4.1                                | 4.1                                 | 4.2                                 | 4.1                                 | 4.2                                 | 4.5                                 |
| 80,0°        | 2.6                   | 2.5                                | 2.5                                 | 2.7                                 | 2.7                                 | 2.8                                 | 2.9                                 |
| 82,5°        | 1.1                   | 1.2                                | 1.2                                 | 1.3                                 | 1.5                                 | 1.5                                 | 1.7                                 |
| 85,0°        | 0.5                   | 0.5                                | 0.5                                 | 0.5                                 | 0.5                                 | 0.5                                 | 0.6                                 |
| 87,5°        | 0.2                   | 0.3                                | 0.3                                 | 0.3                                 | 0.3                                 | 0.3                                 | 0.3                                 |

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|                                 |                                                   |                        |
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| Wertetabelle Lichtstärkemessung | Maximale Lichtstärke                              | siteco                 |

| C-<br>Ebenen | 52,5°<br>127,5°<br>232,5°<br>307,5° | 60,0°<br>120,0°<br>240,0°<br>300,0° | 67,5°<br>112,5°<br>247,5°<br>292,5° | 75,0°<br>105,0°<br>255,0°<br>285,0° | 82,5°<br>97,5°<br>262,5°<br>277,5° | 90,0°<br>270,0° | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-----------------|----------------------|-------------------|
| γ            | Lichtstärke in cd/klm               |                                     |                                     |                                     |                                    |                 | Lichtstrom in lm/klm |                   |
| 0,0°         | 791.0                               | 791.0                               | 791.0                               | 791.0                               | 791.0                              | 791.0           | 1.2                  | 1.2               |
| 2,5°         | 791.3                               | 790.7                               | 790.0                               | 789.4                               | 788.0                              | 786.7           | 9.5                  | 10.7              |
| 5,0°         | 794.2                               | 790.9                               | 788.1                               | 786.0                               | 783.2                              | 781.9           | 19.1                 | 29.7              |
| 7,5°         | 803.7                               | 797.3                               | 791.2                               | 786.8                               | 782.5                              | 780.9           | 29.0                 | 58.7              |
| 10,0°        | 816.7                               | 808.7                               | 801.4                               | 796.1                               | 791.2                              | 788.9           | 39.5                 | 98.2              |
| 12,5°        | 833.0                               | 825.3                               | 818.6                               | 813.6                               | 808.7                              | 806.6           | 50.4                 | 148.6             |
| 15,0°        | 850.7                               | 844.9                               | 836.9                               | 832.9                               | 831.6                              | 829.0           | 61.4                 | 210.0             |
| 17,5°        | 864.2                               | 859.8                               | 856.6                               | 853.6                               | 849.6                              | 847.0           | 72.4                 | 282.5             |
| 20,0°        | 864.8                               | 860.1                               | 856.9                               | 853.9                               | 850.4                              | 848.0           | 82.3                 | 364.7             |
| 22,5°        | 841.4                               | 836.7                               | 833.2                               | 829.7                               | 826.8                              | 824.5           | 89.2                 | 453.9             |
| 25,0°        | 786.0                               | 782.5                               | 779.1                               | 775.6                               | 772.9                              | 771.0           | 91.6                 | 545.4             |
| 27,5°        | 691.2                               | 689.6                               | 687.4                               | 684.8                               | 682.7                              | 681.4           | 87.8                 | 633.3             |
| 30,0°        | 578.6                               | 579.1                               | 578.3                               | 576.4                               | 575.3                              | 574.3           | 79.6                 | 712.9             |
| 32,5°        | 454.5                               | 456.7                               | 457.0                               | 455.4                               | 454.6                              | 454.3           | 67.4                 | 780.2             |
| 35,0°        | 335.0                               | 337.7                               | 338.0                               | 336.6                               | 336.0                              | 336.2           | 53.3                 | 833.5             |
| 37,5°        | 239.3                               | 241.4                               | 241.0                               | 239.6                               | 239.1                              | 239.2           | 40.5                 | 874.0             |
| 40,0°        | 166.2                               | 166.4                               | 164.7                               | 163.3                               | 162.9                              | 163.0           | 29.6                 | 903.6             |
| 42,5°        | 115.3                               | 113.5                               | 111.1                               | 110.0                               | 109.8                              | 109.7           | 21.3                 | 924.9             |
| 45,0°        | 79.0                                | 76.9                                | 75.1                                | 74.3                                | 74.0                               | 73.9            | 15.2                 | 940.1             |
| 47,5°        | 56.0                                | 54.4                                | 53.1                                | 52.3                                | 51.9                               | 51.7            | 11.2                 | 951.3             |
| 50,0°        | 40.9                                | 39.8                                | 38.8                                | 38.0                                | 37.5                               | 37.4            | 8.5                  | 959.8             |
| 52,5°        | 31.8                                | 30.8                                | 29.9                                | 29.1                                | 28.8                               | 28.7            | 6.8                  | 966.6             |
| 55,0°        | 25.9                                | 25.0                                | 24.2                                | 23.4                                | 23.2                               | 23.3            | 5.6                  | 972.3             |
| 57,5°        | 21.7                                | 20.8                                | 20.1                                | 19.5                                | 19.4                               | 19.6            | 4.8                  | 977.0             |
| 60,0°        | 18.6                                | 18.0                                | 17.1                                | 16.6                                | 16.8                               | 17.1            | 4.2                  | 981.2             |
| 62,5°        | 16.0                                | 15.6                                | 14.7                                | 14.4                                | 14.7                               | 15.1            | 3.6                  | 984.8             |
| 65,0°        | 14.0                                | 13.6                                | 12.8                                | 12.7                                | 13.1                               | 13.5            | 3.2                  | 988.1             |
| 67,5°        | 12.0                                | 12.1                                | 11.2                                | 11.1                                | 11.6                               | 12.1            | 2.9                  | 991.0             |
| 70,0°        | 9.8                                 | 10.4                                | 9.7                                 | 9.7                                 | 10.2                               | 10.6            | 2.5                  | 993.4             |
| 72,5°        | 7.8                                 | 8.3                                 | 8.3                                 | 8.3                                 | 8.8                                | 9.1             | 2.1                  | 995.5             |
| 75,0°        | 6.2                                 | 6.3                                 | 6.8                                 | 6.9                                 | 7.3                                | 7.6             | 1.6                  | 997.1             |
| 77,5°        | 4.6                                 | 4.9                                 | 5.3                                 | 5.5                                 | 5.8                                | 6.0             | 1.3                  | 998.4             |
| 80,0°        | 3.1                                 | 3.4                                 | 3.7                                 | 4.0                                 | 4.2                                | 4.4             | 0.9                  | 999.2             |
| 82,5°        | 1.8                                 | 2.1                                 | 2.4                                 | 2.6                                 | 2.8                                | 2.9             | 0.5                  | 999.7             |
| 85,0°        | 0.7                                 | 1.0                                 | 1.2                                 | 1.3                                 | 1.6                                | 1.6             | 0.2                  | 1000.0            |
| 87,5°        | 0.3                                 | 0.3                                 | 0.3                                 | 0.3                                 | 0.4                                | 0.4             | 0.1                  | 1000.0            |

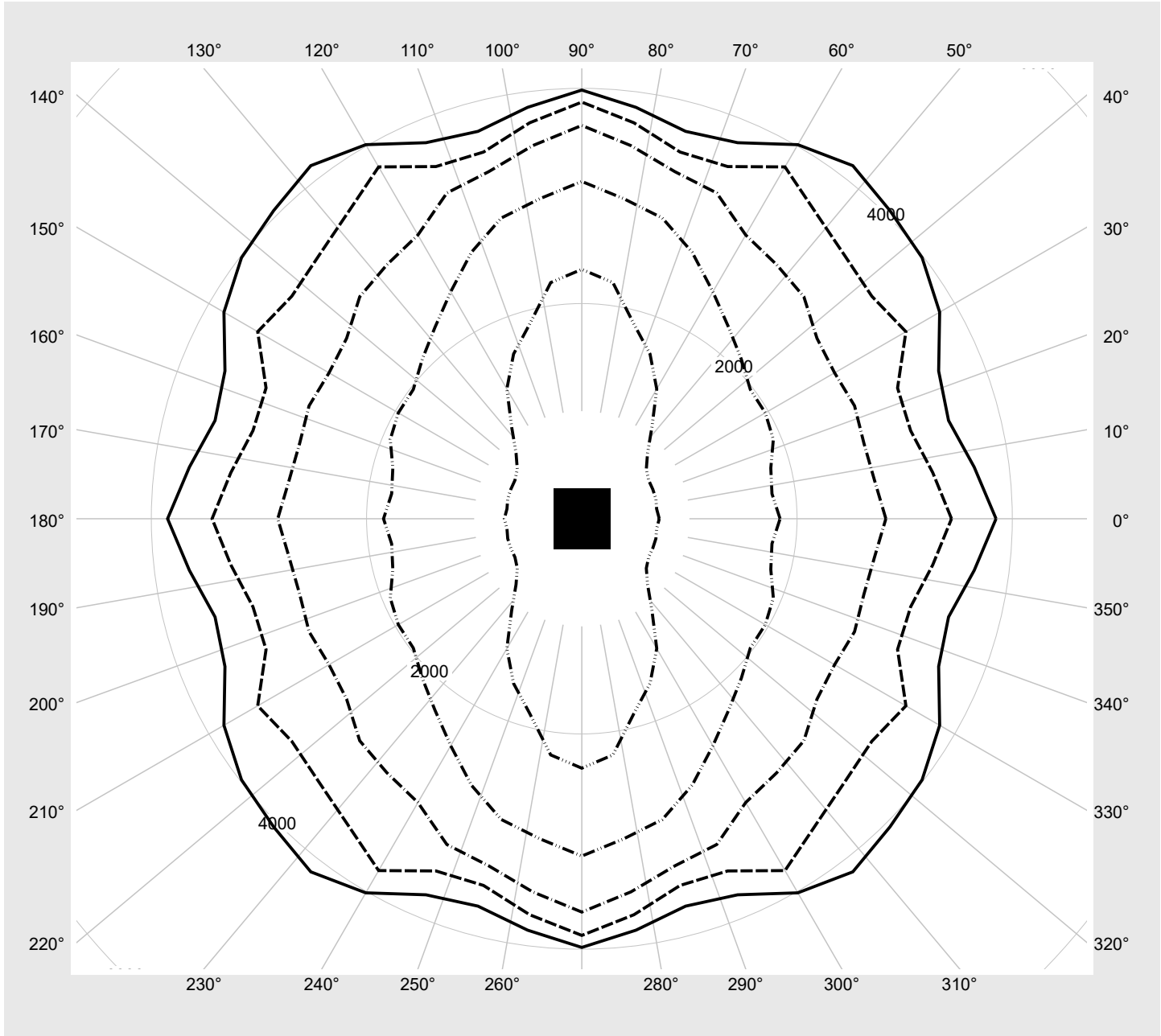
Lichttechnischer Prüfbefund

|                       |     |                                     |                                                   |      |      |      |                                       |      |                        |      |      |
|-----------------------|-----|-------------------------------------|---------------------------------------------------|------|------|------|---------------------------------------|------|------------------------|------|------|
| Familie<br>Highbay 21 |     |                                     | Bestell-Nr.: 52HN12DA4FLA03<br>EAN: 4069025421586 |      |      |      |                                       |      | LP-Nummer<br>59723_187 |      |      |
| 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  | 18,1                                | 19,4                                              | 18,5 | 19,7 | 20,0 | 17,9                                  | 19,2 | 18,3                   | 19,5 | 19,8 |
|                       | 3H  | 18,2                                | 19,2                                              | 18,5 | 19,6 | 19,9 | 18,0                                  | 19,1 | 18,4                   | 19,4 | 19,8 |
|                       | 4H  | 18,2                                | 19,2                                              | 18,6 | 19,5 | 19,9 | 18,1                                  | 19,1 | 18,5                   | 19,4 | 19,8 |
|                       | 6H  | 18,1                                | 19,0                                              | 18,6 | 19,4 | 19,8 | 18,1                                  | 19,0 | 18,5                   | 19,4 | 19,8 |
|                       | 8H  | 18,2                                | 19,0                                              | 18,7 | 19,4 | 19,8 | 18,2                                  | 19,0 | 18,7                   | 19,4 | 19,8 |
|                       | 12H | 18,2                                | 18,9                                              | 18,6 | 19,3 | 19,7 | 18,2                                  | 18,9 | 18,7                   | 19,3 | 19,7 |
| 4H                    | 2H  | 18,0                                | 19,0                                              | 18,4 | 19,4 | 19,7 | 17,9                                  | 18,8 | 18,2                   | 19,2 | 19,6 |
|                       | 3H  | 18,1                                | 18,9                                              | 18,5 | 19,3 | 19,7 | 18,0                                  | 18,8 | 18,4                   | 19,2 | 19,6 |
|                       | 4H  | 18,1                                | 18,9                                              | 18,6 | 19,3 | 19,7 | 18,1                                  | 18,8 | 18,5                   | 19,2 | 19,7 |
|                       | 6H  | 18,1                                | 18,7                                              | 18,6 | 19,2 | 19,7 | 18,2                                  | 18,8 | 18,6                   | 19,2 | 19,7 |
|                       | 8H  | 18,1                                | 18,7                                              | 18,6 | 19,1 | 19,6 | 18,2                                  | 18,7 | 18,7                   | 19,2 | 19,7 |
|                       | 12H | 18,1                                | 18,6                                              | 18,6 | 19,0 | 19,5 | 18,3                                  | 18,7 | 18,8                   | 19,1 | 19,6 |
| 8H                    | 4H  | 18,1                                | 18,6                                              | 18,6 | 19,1 | 19,6 | 18,0                                  | 18,6 | 18,5                   | 19,0 | 19,5 |
|                       | 6H  | 18,1                                | 18,5                                              | 18,6 | 19,0 | 19,5 | 18,1                                  | 18,6 | 18,6                   | 19,1 | 19,6 |
|                       | 8H  | 18,0                                | 18,4                                              | 18,6 | 18,9 | 19,5 | 18,2                                  | 18,6 | 18,7                   | 19,1 | 19,6 |
|                       | 12H | 18,0                                | 18,3                                              | 18,6 | 18,8 | 19,4 | 18,2                                  | 18,5 | 18,7                   | 19,0 | 19,6 |
| 12H                   | 4H  | 18,1                                | 18,5                                              | 18,6 | 19,0 | 19,5 | 18,1                                  | 18,5 | 18,6                   | 19,0 | 19,5 |
|                       | 6H  | 18,1                                | 18,4                                              | 18,6 | 18,9 | 19,5 | 18,2                                  | 18,5 | 18,7                   | 19,0 | 19,5 |
|                       | 8H  | 18,1                                | 18,3                                              | 18,6 | 18,9 | 19,4 | 18,2                                  | 18,5 | 18,7                   | 19,0 | 19,5 |

| Leuchtdichten-Tabelle |                       | Max. für $\gamma \geq 65^\circ$     |                                     | Lichttechnische Abmessungen in mm:  |                                     | L = 426<br>B = 264                  |                                     |                                     |                                     |                 |
|-----------------------|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------------|
| C-<br>Ebenen          | 0,0°<br>180,0°        | 10,0°<br>170,0°<br>190,0°<br>350,0° | 20,0°<br>160,0°<br>200,0°<br>340,0° | 30,0°<br>150,0°<br>210,0°<br>330,0° | 40,0°<br>140,0°<br>220,0°<br>320,0° | 50,0°<br>130,0°<br>230,0°<br>310,0° | 60,0°<br>120,0°<br>240,0°<br>300,0° | 70,0°<br>110,0°<br>250,0°<br>290,0° | 80,0°<br>100,0°<br>260,0°<br>280,0° | 90,0°<br>270,0° |
| $\gamma$              | Leuchtdichte in cd/m² |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                 |
| 45,0°                 | 14476.2               | 14028.1                             | 14239.0                             | 14318.1                             | 14347.6                             | 14028.5                             | 13530.1                             | 13159.9                             | 13037.9                             | 13002.0         |
| 50,0°                 | 8212.1                | 7985.8                              | 8135.3                              | 8154.0                              | 8152.9                              | 7998.3                              | 7711.1                              | 7454.8                              | 7292.0                              | 7234.9          |
| 55,0°                 | 5559.9                | 5397.2                              | 5517.3                              | 5658.2                              | 5810.2                              | 5698.9                              | 5416.9                              | 5190.6                              | 5049.2                              | 5066.4          |
| 60,0°                 | 4277.5                | 4154.2                              | 4224.2                              | 4522.3                              | 4664.4                              | 4656.7                              | 4485.9                              | 4211.2                              | 4162.2                              | 4249.4          |
| 65,0°                 | 3848.9                | 3625.2                              | 3547.5                              | 3839.5                              | 4016.1                              | 4130.7                              | 4014.5                              | 3744.9                              | 3813.7                              | 3984.1          |
| 70,0°                 | 3435.5                | 3244.6                              | 3139.3                              | 3477.3                              | 3401.2                              | 3528.9                              | 3775.8                              | 3513.7                              | 3653.1                              | 3872.3          |
| 75,0°                 | 2825.2                | 2727.3                              | 2739.9                              | 2712.2                              | 2795.6                              | 2954.8                              | 3045.5                              | 3316.6                              | 3445.0                              | 3655.4          |
| 80,0°                 | 1842.4                | 1783.4                              | 1897.5                              | 1968.5                              | 2001.4                              | 2187.7                              | 2435.9                              | 2754.9                              | 2960.8                              | 3134.9          |
| 85,0°                 | 719.9                 | 701.8                               | 713.5                               | 717.0                               | 784.0                               | 988.2                               | 1392.6                              | 1734.1                              | 2126.4                              | 2318.1          |

Lichttechnischer Prüfbefund

|                                                                                                                                 |                                                                 |                                      |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|
| <b>Familie</b><br><b>Highbay 21</b>                                                                                             | <b>Bestell-Nr.: 52HN12DA4FLA03</b><br><b>EAN: 4069025421586</b> | <b>LP-Nummer</b><br><b>59723_187</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> |                                                                 |                                      |  |



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

siteco

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 14000           | 72.1               |
| 95             | 241              | 252                     | 13303           | 68.3               |
| 90             | 228              | 250                     | 12606           | 64.7               |
| 85             | 215              | 248                     | 11901           | 61.0               |
| 80             | 202              | 246                     | 11197           | 57.4               |
| 75             | 189              | 243                     | 10494           | 53.5               |
| 70             | 176              | 241                     | 9782            | 49.9               |
| 65             | 164              | 238                     | 9126            | 46.6               |
| 60             | 151              | 235                     | 8413            | 42.9               |
| 55             | 138              | 232                     | 7695            | 39.3               |
| 50             | 125              | 228                     | 6976            | 35.7               |
| 45             | 113              | 224                     | 6313            | 32.4               |
| 40             | 100              | 220                     | 5591            | 28.8               |
| 35             | 88               | 215                     | 4919            | 25.5               |
| 30             | 75               | 209                     | 4192            | 22.0               |
| 25             | 63               | 203                     | 3520            | 18.7               |
| 20             | 50               | 194                     | 2785            | 15.1               |
| 15             | 38               | 184                     | 2109            | 11.9               |
| 10             | 25               | 169                     | 1374            | 8.4                |
| 5              | 13               | 145                     | 690             | 4.9                |
| 2              | 5                | 110                     | 235             | 2.5                |