

Lichttechnischer Prüfbefund

Familie
Highbay 21

Bestell-Nr.: 52HN12DA4LDA
EAN: 4069025256737

LP-Nummer
59723_10



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

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Einstellung AC-Betrieb

Bemessungswerte Nettolichtstrom = 26500 lm
Systemleistung = 142.6 W
Lichtausbeute = 185.8 lm/W

Seriendokumentation
24.02.2025

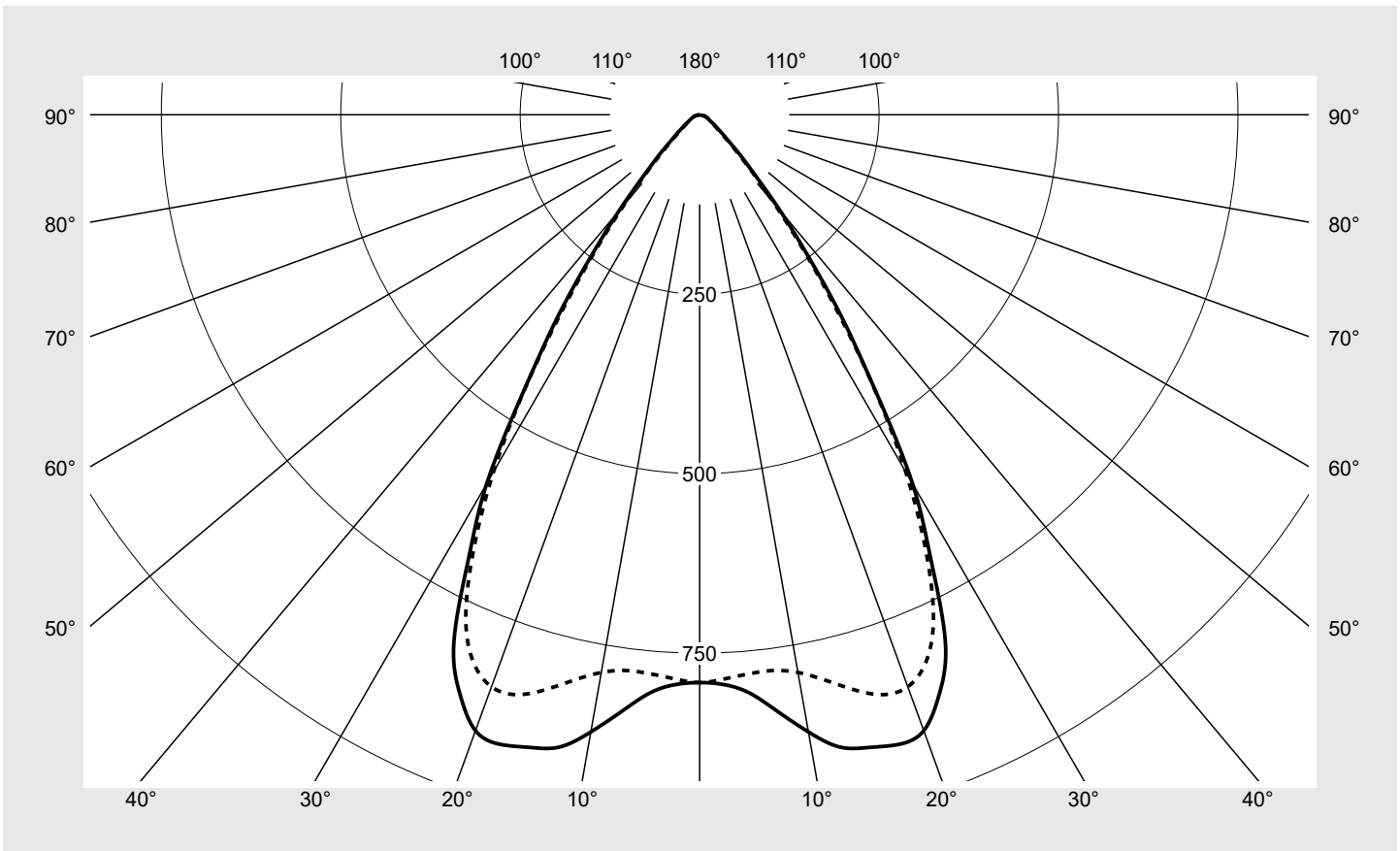
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 920 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=90 N2=98 N3=100
N4=100 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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| | | |
|--|---|------------------------------|
| Familie Highbay 21 | Bestell-Nr.: 52HN12DA4LDA EAN: 4069025256737 | LP-Nummer 59723_10 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
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| C- Ebenen | 0,0° 180,0° | 7,5° 172,5° 187,5° 352,5° | 15,0° 165,0° 195,0° 345,0° | 22,5° 157,5° 202,5° 337,5° | 30,0° 150,0° 210,0° 330,0° | 37,5° 142,5° 217,5° 322,5° | 45,0° 135,0° 225,0° 315,0° |
|--------------|----------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | | Lichtstärke in cd/klm | | | | | |
| γ | | | | | | | |
| 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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| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
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| C- Ebenen | 52,5° 127,5° 232,5° 307,5° | 60,0° 120,0° 240,0° 300,0° | 67,5° 112,5° 247,5° 292,5° | 75,0° 105,0° 255,0° 285,0° | 82,5° 97,5° 262,5° 277,5° | 90,0° 270,0° | Phi-Zone | Summe 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 |

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

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

| C-Ebenen | γ | 10,0° | 20,0° | 30,0° | 40,0° | 50,0° | 60,0° | 70,0° | 80,0° | 90,0° | |
|----------|----------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 170,0° | 160,0° | 150,0° | 140,0° | 130,0° | 120,0° | 110,0° | 100,0° | 90,0° | |
| | | 190,0° | 200,0° | 210,0° | 220,0° | 230,0° | 240,0° | 250,0° | 260,0° | 270,0° | |
| | | 180,0° | 350,0° | 340,0° | 330,0° | 320,0° | 310,0° | 300,0° | 290,0° | 280,0° | |
| | | Leuchtdichte in cd/m ² | | | | | | | | | |
| 45,0° | | 27401.4 | 26553.3 | 26952.3 | 27102.1 | 27158.0 | 26553.9 | 25610.6 | 24909.8 | 24678.8 | 24610.9 |
| 50,0° | | 15544.3 | 15116.0 | 15399.0 | 15434.3 | 15432.2 | 15139.6 | 14596.0 | 14110.9 | 13802.8 | 13694.6 |
| 55,0° | | 10524.1 | 10216.2 | 10443.5 | 10710.2 | 10997.9 | 10787.2 | 10253.4 | 9825.1 | 9557.4 | 9589.9 |
| 60,0° | | 8096.8 | 7863.3 | 7995.7 | 8560.0 | 8829.0 | 8814.5 | 8491.2 | 7971.1 | 7878.5 | 8043.5 |
| 65,0° | | 7285.5 | 6862.0 | 6714.8 | 7267.7 | 7601.8 | 7818.8 | 7598.9 | 7088.5 | 7218.8 | 7541.4 |
| 70,0° | | 6502.9 | 6141.6 | 5942.3 | 6582.1 | 6438.1 | 6679.6 | 7147.1 | 6651.0 | 6914.9 | 7329.6 |
| 75,0° | | 5347.7 | 5162.4 | 5186.2 | 5133.8 | 5291.6 | 5592.9 | 5764.7 | 6277.8 | 6520.9 | 6919.1 |
| 80,0° | | 3487.3 | 3375.8 | 3591.7 | 3726.2 | 3788.3 | 4141.1 | 4610.9 | 5214.6 | 5604.3 | 5933.9 |
| 85,0° | | 1362.6 | 1328.4 | 1350.6 | 1357.2 | 1484.0 | 1870.6 | 2636.0 | 3282.4 | 4025.0 | 4387.9 |

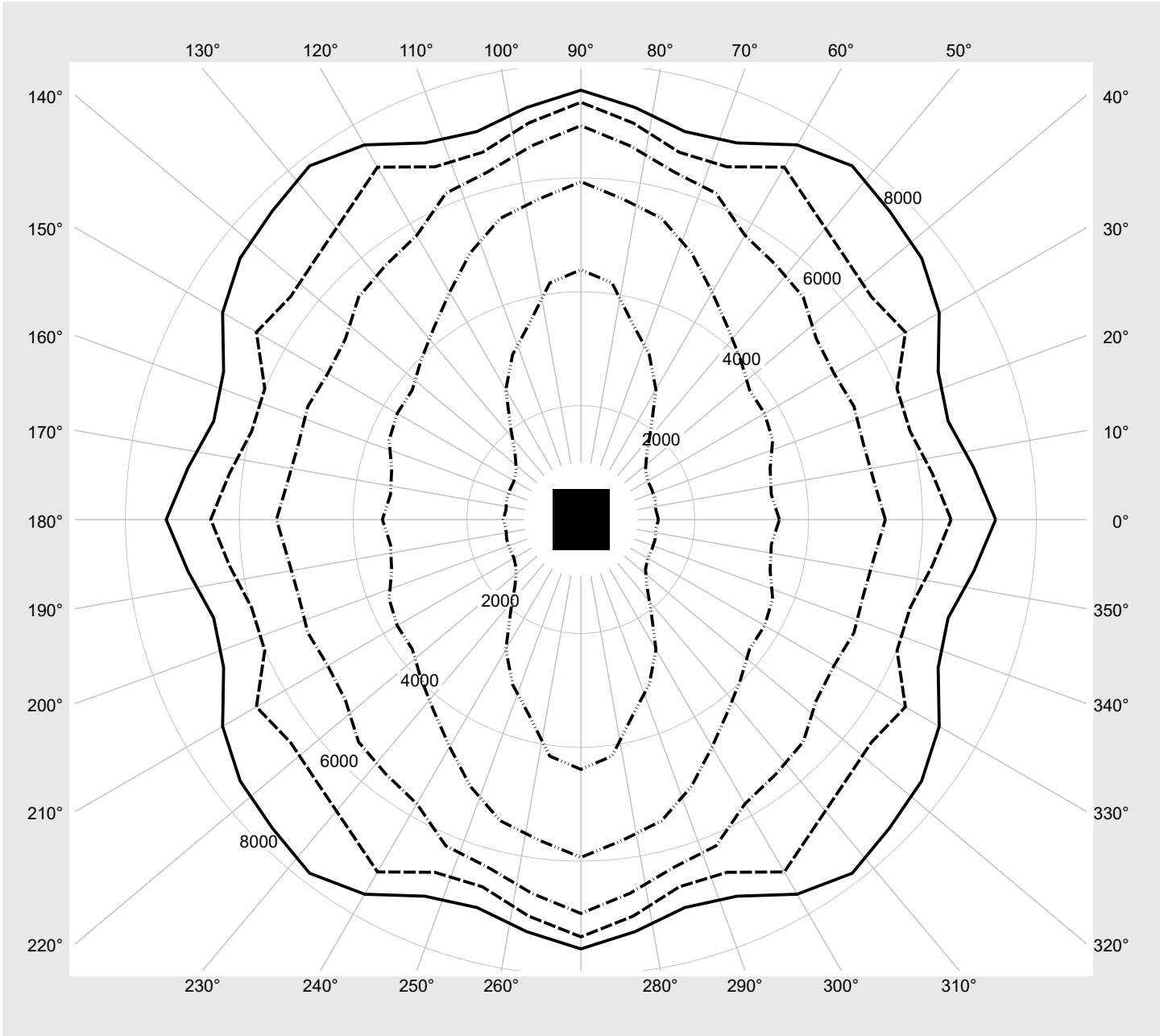
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Leuchtdichten in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| γ 65° | γ 70° | γ 75° | γ 80° | γ 85° |
|--------------|--------------|--------------|--------------|--------------|

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| Dimmstufen-Tabelle | Umgebungstemperatur: 25°C | sITeco |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 26500 | 142.6 |
| 95 | 240 | 252 | 25141 | 134.6 |
| 90 | 227 | 250 | 23858 | 127.1 |
| 85 | 214 | 248 | 22571 | 119.7 |
| 80 | 200 | 245 | 21174 | 111.7 |
| 75 | 187 | 243 | 19866 | 104.4 |
| 70 | 174 | 240 | 18545 | 97.0 |
| 65 | 161 | 237 | 17219 | 89.7 |
| 60 | 148 | 234 | 15875 | 82.5 |
| 55 | 135 | 231 | 14529 | 75.2 |
| 50 | 123 | 227 | 13272 | 68.7 |
| 45 | 110 | 223 | 11900 | 61.5 |
| 40 | 98 | 219 | 10632 | 54.7 |
| 35 | 85 | 214 | 9243 | 47.6 |
| 30 | 73 | 208 | 7956 | 41.1 |
| 25 | 61 | 202 | 6658 | 34.6 |
| 20 | 48 | 193 | 5246 | 27.6 |
| 15 | 36 | 182 | 3931 | 21.2 |
| 10 | 24 | 168 | 2613 | 14.7 |
| 5 | 12 | 142 | 1286 | 7.9 |
| 2 | 5 | 110 | 507 | 4.1 |