

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D24MCAD
EAN: 4058352341636

LP-Nummer
58922_11



Ausführung breit strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 28800 lm
Systemleistung = 162.4 W
Lichtausbeute = 177.3 lm/W

Seriendokumentation
21.05.2019

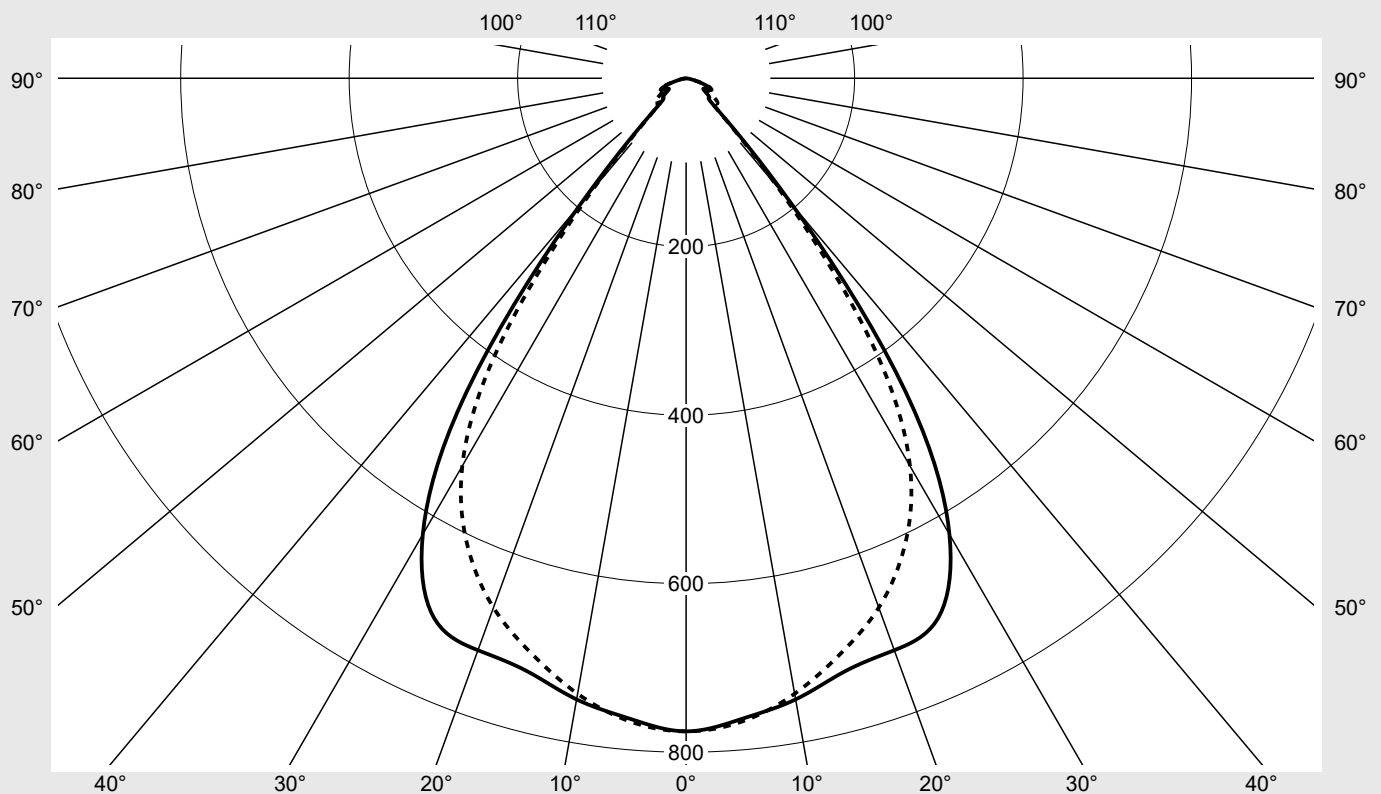
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 775 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=89 N2=96 N3=99
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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| Wertetabelle Lichtstärkemessung | Maximale Lichtstärke | sITeco |
|--|-----------------------------|---------------|

| C- Ebenen | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-Zone | Summe Phi-Zone |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Lichtstärke in cd/klm | | | | | | | | Lichtstrom in lm/klm | |
| 0° | 775.3 | 775.3 | 775.3 | 775.3 | 775.3 | 775.3 | 775.3 | 4.6 | 4.6 |
| 5° | 763.3 | 765.5 | 767.8 | 768.1 | 766.5 | 768.2 | 766.4 | 36.6 | 41.3 |
| 10° | 748.7 | 752.6 | 756.7 | 755.9 | 749.0 | 745.7 | 741.9 | 71.5 | 112.7 |
| 15° | 728.8 | 736.6 | 748.6 | 748.7 | 732.9 | 716.3 | 707.4 | 104.1 | 216.8 |
| 20° | 722.5 | 731.1 | 745.9 | 741.9 | 711.6 | 682.4 | 668.7 | 134.6 | 351.4 |
| 25° | 707.4 | 710.1 | 723.4 | 713.1 | 669.4 | 627.0 | 613.5 | 158.4 | 509.9 |
| 30° | 625.1 | 622.7 | 643.6 | 650.9 | 594.8 | 541.3 | 531.4 | 165.9 | 675.7 |
| 35° | 454.3 | 465.0 | 515.3 | 546.7 | 478.1 | 404.7 | 385.8 | 148.3 | 824.0 |
| 40° | 194.7 | 222.6 | 276.1 | 324.0 | 261.7 | 198.8 | 171.4 | 86.1 | 910.1 |
| 45° | 52.4 | 51.4 | 56.0 | 64.9 | 54.8 | 51.5 | 51.3 | 21.3 | 931.5 |
| 50° | 36.0 | 31.0 | 27.7 | 34.1 | 33.7 | 39.2 | 46.8 | 14.5 | 946.0 |
| 55° | 27.7 | 25.7 | 21.5 | 23.0 | 24.8 | 33.2 | 42.0 | 12.2 | 958.2 |
| 60° | 24.8 | 27.6 | 25.1 | 19.0 | 18.2 | 24.5 | 32.6 | 11.3 | 969.5 |
| 65° | 33.0 | 23.0 | 22.5 | 18.8 | 16.0 | 23.0 | 31.5 | 11.2 | 980.7 |
| 70° | 25.9 | 19.0 | 18.9 | 17.8 | 15.3 | 19.4 | 28.1 | 10.1 | 990.8 |
| 75° | 12.6 | 8.9 | 10.2 | 12.8 | 12.0 | 13.0 | 13.0 | 6.1 | 996.9 |
| 80° | 3.5 | 3.2 | 4.0 | 5.1 | 6.3 | 6.1 | 5.9 | 2.6 | 999.6 |
| 85° | 0.3 | 0.3 | 0.4 | 0.5 | 1.1 | 1.3 | 1.4 | 0.4 | 1000.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |

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

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| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 600 B = 320 |
|--|--|

| C-Ebenen | γ | Leuchtdichte in cd/m ² | | | | | | |
|----------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° |
| 45° | | 11110.2 | 10907.8 | 11880.5 | 13759.5 | 11629.9 | 10932.0 | 10874.7 |
| 50° | | 8401.1 | 7241.6 | 6475.2 | 7965.0 | 7871.0 | 9143.0 | 10910.0 |
| 55° | | 7239.3 | 6717.6 | 5619.2 | 6027.7 | 6475.7 | 8675.8 | 10983.5 |
| 60° | | 7439.1 | 8294.1 | 7528.2 | 5711.1 | 5454.9 | 7355.4 | 9772.5 |
| 65° | | 11718.7 | 8148.5 | 7993.7 | 6684.0 | 5664.3 | 8151.0 | 11191.0 |
| 70° | | 11375.2 | 8319.2 | 8298.6 | 7817.5 | 6719.8 | 8525.8 | 12320.3 |
| 75° | | 7290.8 | 5129.1 | 5896.4 | 7421.8 | 6952.3 | 7523.2 | 7540.0 |
| 80° | | 3023.4 | 2799.6 | 3479.4 | 4400.3 | 5457.6 | 5233.9 | 5089.6 |
| 85° | | 530.1 | 521.5 | 611.0 | 889.8 | 1903.5 | 2208.1 | 2421.5 |

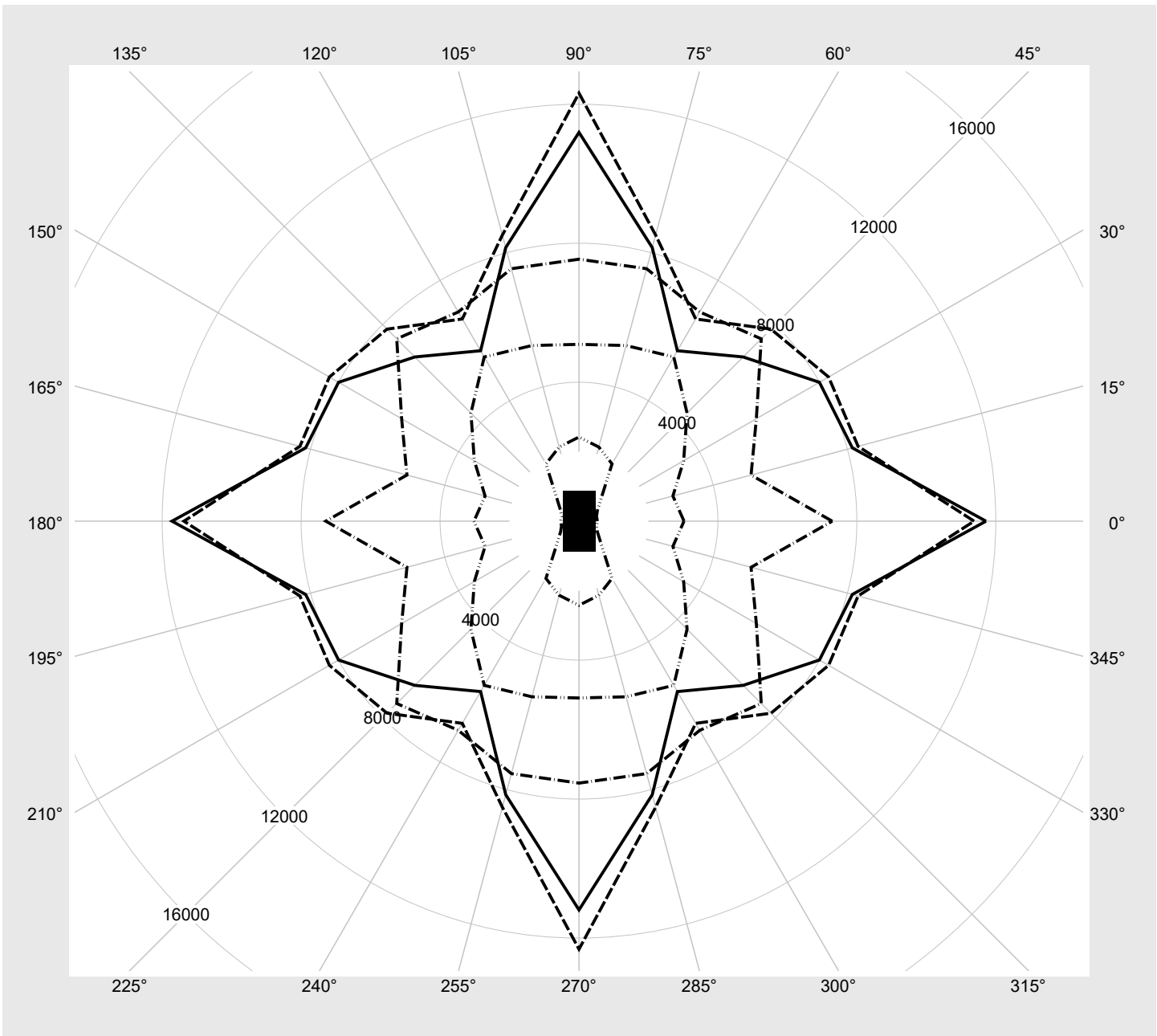
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Leuchtdichten in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| 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 | 28800 | 162.4 |
| 95 | 241 | 252 | 27360 | 153.6 |
| 90 | 227 | 250 | 25920 | 145.0 |
| 85 | 214 | 248 | 24480 | 136.6 |
| 80 | 201 | 245 | 23040 | 128.3 |
| 75 | 188 | 243 | 21600 | 120.1 |
| 70 | 175 | 240 | 20160 | 111.9 |
| 65 | 162 | 237 | 18720 | 103.9 |
| 60 | 149 | 234 | 17280 | 95.9 |
| 55 | 136 | 231 | 15840 | 88.1 |
| 50 | 124 | 228 | 14400 | 80.3 |
| 45 | 111 | 224 | 12960 | 72.7 |
| 40 | 99 | 219 | 11520 | 65.0 |
| 35 | 86 | 215 | 10080 | 57.5 |
| 30 | 74 | 209 | 8640 | 50.1 |
| 25 | 62 | 203 | 7200 | 42.6 |
| 20 | 50 | 195 | 5760 | 35.3 |
| 15 | 38 | 185 | 4320 | 28.1 |
| 10 | 26 | 170 | 2879 | 20.8 |