

Lichttechnischer Prüfbefund

Familie
Highbay 11 Xtreme

Bestell-Nr.: 51HF81DB4WMA
EAN: 4058352919958

LP-Nummer
59307_17



Ausführung eng strahlend, Einscheibensicherheitsglas (ESG), Kettenabhängung
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 76000 lm
Systemleistung = 422.2 W
Lichtausbeute = 180 lm/W

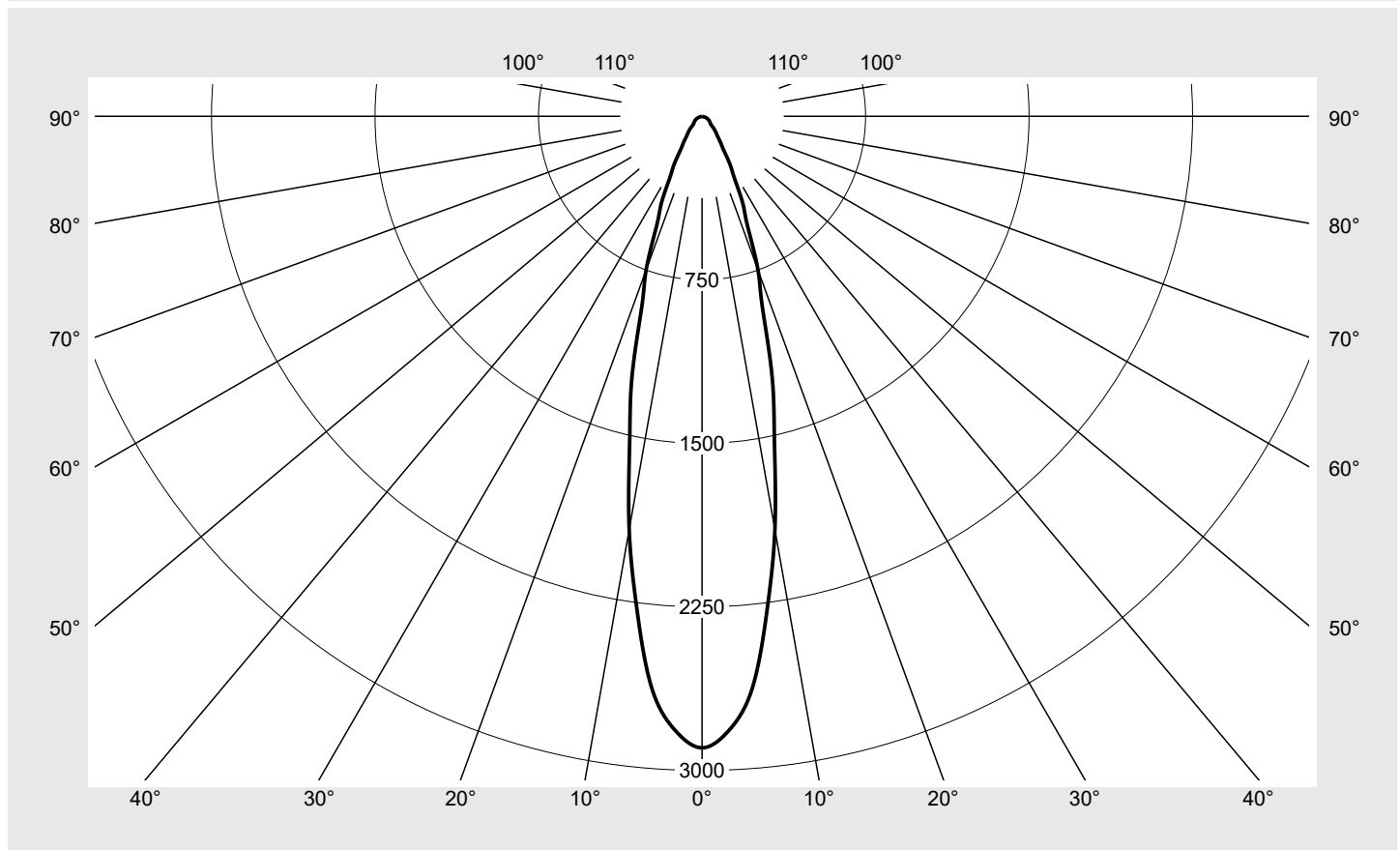
Seriendokumentation
19.10.2023

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Lichtstärke in cd/klm

C180-0

Imax: 2896 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=88 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° | Phi-Zone | Summe Phi-Zone |
|--------------|-----------------------|----------------------|-------------------|
| γ | Lichtstärke in cd/klm | Lichtstrom in lm/klm | |
| 0,0° | 2896.3 | 4.3 | 4.3 |
| 2,5° | 2819.4 | 33.7 | 38.0 |
| 5,0° | 2635.7 | 63.0 | 101.0 |
| 7,5° | 2284.5 | 81.7 | 182.8 |
| 10,0° | 1924.6 | 91.6 | 274.4 |
| 12,5° | 1534.7 | 91.1 | 365.4 |
| 15,0° | 1244.7 | 88.3 | 453.7 |
| 17,5° | 921.9 | 76.0 | 529.7 |
| 20,0° | 750.6 | 70.4 | 600.1 |
| 22,5° | 545.9 | 57.3 | 657.4 |
| 25,0° | 444.2 | 51.5 | 708.8 |
| 27,5° | 324.2 | 41.0 | 749.9 |
| 30,0° | 259.7 | 35.6 | 785.5 |
| 32,5° | 186.5 | 27.5 | 812.9 |
| 35,0° | 150.0 | 23.6 | 836.5 |
| 37,5° | 119.7 | 20.0 | 856.5 |
| 40,0° | 101.4 | 17.9 | 874.3 |
| 42,5° | 86.4 | 16.0 | 890.3 |
| 45,0° | 69.3 | 13.4 | 903.8 |
| 47,5° | 53.2 | 10.7 | 914.5 |
| 50,0° | 50.3 | 10.6 | 925.1 |
| 52,5° | 46.2 | 10.0 | 935.1 |
| 55,0° | 42.5 | 9.5 | 944.7 |
| 57,5° | 39.0 | 9.0 | 953.7 |
| 60,0° | 36.5 | 8.7 | 962.4 |
| 62,5° | 32.1 | 7.8 | 970.2 |
| 65,0° | 28.9 | 7.2 | 977.4 |
| 67,5° | 23.8 | 6.0 | 983.4 |
| 70,0° | 20.2 | 5.2 | 988.6 |
| 72,5° | 15.0 | 3.9 | 992.5 |
| 75,0° | 11.9 | 3.1 | 995.6 |
| 77,5° | 7.9 | 2.1 | 997.8 |
| 80,0° | 5.0 | 1.4 | 999.1 |
| 82,5° | 2.2 | 0.6 | 999.7 |
| 85,0° | 0.8 | 0.2 | 999.9 |
| 87,5° | 0.3 | 0.1 | 1000.0 |
| 90,0° | 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 | 22,1 | 23,3 | 22,5 | 23,6 | 23,9 | 22,1 | 23,3 | 22,5 | 23,6 | 23,9 |
| | 3H | 23,2 | 24,2 | 23,6 | 24,5 | 24,9 | 23,2 | 24,2 | 23,6 | 24,5 | 24,9 |
| | 4H | 23,5 | 24,4 | 23,9 | 24,8 | 25,1 | 23,5 | 24,4 | 23,9 | 24,8 | 25,1 |
| | 6H | 23,6 | 24,4 | 24,0 | 24,8 | 25,2 | 23,6 | 24,4 | 24,0 | 24,8 | 25,2 |
| | 8H | 23,7 | 24,4 | 24,1 | 24,8 | 25,2 | 23,7 | 24,4 | 24,1 | 24,8 | 25,2 |
| | 12H | 23,7 | 24,3 | 24,1 | 24,7 | 25,1 | 23,7 | 24,3 | 24,1 | 24,7 | 25,1 |
| 4H | 2H | 22,6 | 23,5 | 23,0 | 23,9 | 24,2 | 22,6 | 23,5 | 23,0 | 23,9 | 24,2 |
| | 3H | 23,8 | 24,5 | 24,2 | 24,9 | 25,3 | 23,8 | 24,5 | 24,2 | 24,9 | 25,3 |
| | 4H | 24,1 | 24,8 | 24,6 | 25,2 | 25,7 | 24,1 | 24,8 | 24,6 | 25,2 | 25,7 |
| | 6H | 24,3 | 24,9 | 24,8 | 25,3 | 25,8 | 24,3 | 24,9 | 24,8 | 25,3 | 25,8 |
| | 8H | 24,3 | 24,8 | 24,8 | 25,3 | 25,8 | 24,3 | 24,8 | 24,8 | 25,3 | 25,8 |
| | 12H | 24,3 | 24,7 | 24,8 | 25,2 | 25,7 | 24,3 | 24,7 | 24,8 | 25,2 | 25,7 |
| 8H | 4H | 24,3 | 24,8 | 24,7 | 25,2 | 25,7 | 24,3 | 24,8 | 24,7 | 25,2 | 25,7 |
| | 6H | 24,5 | 24,9 | 25,0 | 25,3 | 25,9 | 24,5 | 24,9 | 25,0 | 25,3 | 25,9 |
| | 8H | 24,4 | 24,8 | 24,9 | 25,3 | 25,8 | 24,4 | 24,8 | 24,9 | 25,3 | 25,8 |
| | 12H | 24,4 | 24,7 | 24,9 | 25,2 | 25,8 | 24,4 | 24,7 | 24,9 | 25,2 | 25,8 |
| 12H | 4H | 24,2 | 24,7 | 24,7 | 25,1 | 25,6 | 24,2 | 24,7 | 24,7 | 25,1 | 25,6 |
| | 6H | 24,4 | 24,8 | 24,9 | 25,3 | 25,8 | 24,4 | 24,8 | 24,9 | 25,3 | 25,8 |
| | 8H | 24,4 | 24,7 | 24,9 | 25,2 | 25,8 | 24,4 | 24,7 | 24,9 | 25,2 | 25,8 |

| | | | |
|------------------------------|---------------------------------|------------------------------------|--------------------|
| Leuchtdichten-Tabelle | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 545 B = 235 |
|------------------------------|---------------------------------|------------------------------------|--------------------|

| C-Ebenen | 0° |
|----------|-----------------------------------|
| γ | Leuchtdichte in cd/m ² |
| 45,0° | 58184.9 |
| 50,0° | 46413.3 |
| 55,0° | 43984.5 |
| 60,0° | 43338.5 |
| 65,0° | 40639.1 |
| 70,0° | 34974.0 |
| 75,0° | 27249.1 |
| 80,0° | 17168.4 |
| 85,0° | 5188.1 |

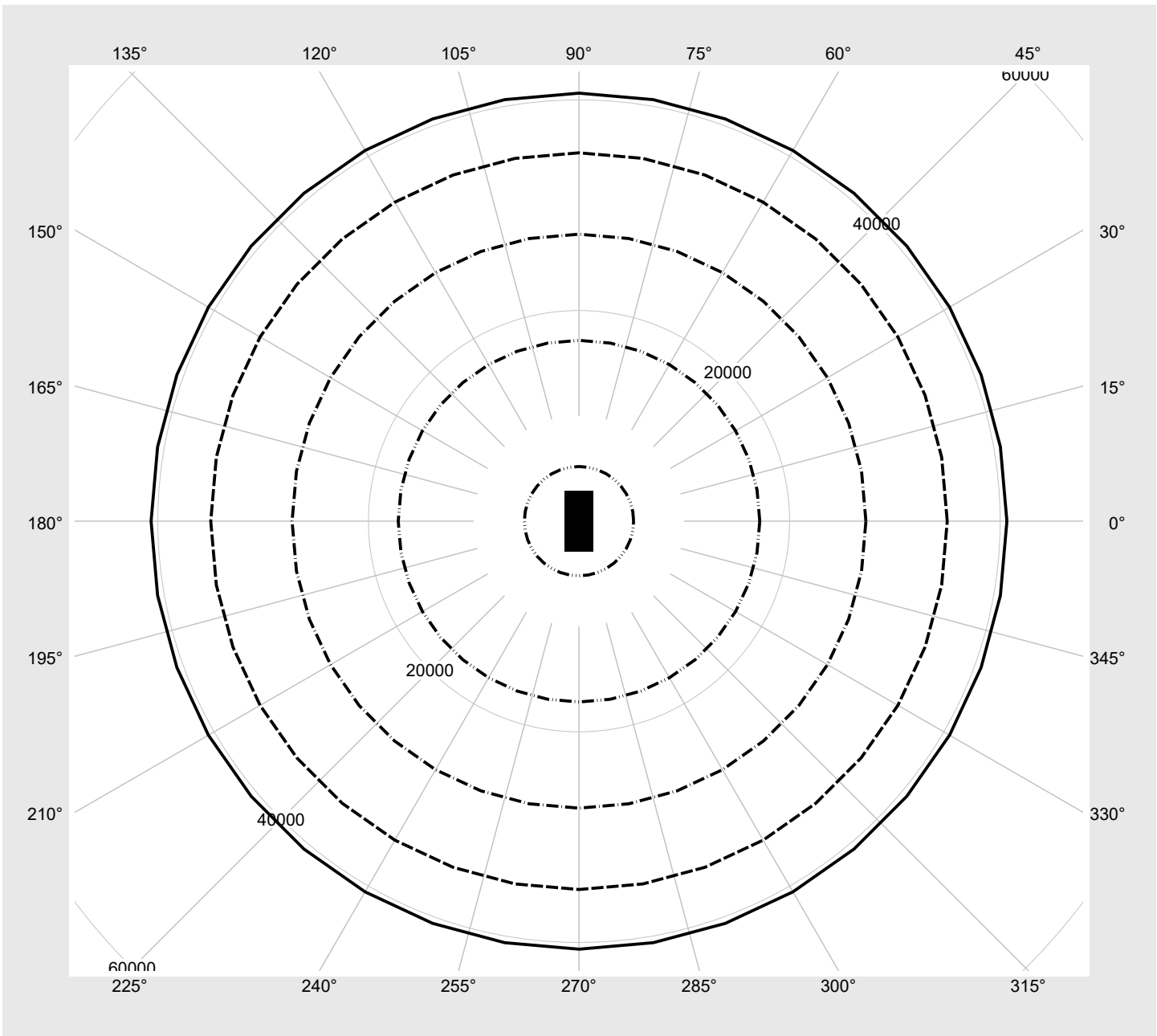
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Leuchtdichten in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| 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 | 76000 | 422.2 |
| 95 | 240 | 252 | 72184 | 397.9 |
| 90 | 226 | 250 | 68301 | 372.7 |
| 85 | 213 | 248 | 64670 | 350.5 |
| 80 | 199 | 245 | 60719 | 326.8 |
| 75 | 186 | 243 | 57050 | 304.2 |
| 70 | 173 | 240 | 53315 | 282.8 |
| 65 | 159 | 237 | 49258 | 259.5 |
| 60 | 146 | 234 | 45457 | 237.4 |
| 55 | 134 | 231 | 41922 | 217.8 |
| 50 | 121 | 227 | 38062 | 196.5 |
| 45 | 108 | 223 | 34137 | 175.9 |
| 40 | 96 | 218 | 30495 | 156.6 |
| 35 | 84 | 213 | 26772 | 137.6 |
| 30 | 71 | 207 | 22773 | 116.6 |
| 25 | 59 | 201 | 19012 | 97.0 |
| 20 | 47 | 192 | 15213 | 77.7 |
| 15 | 35 | 181 | 11372 | 58.9 |
| 10 | 23 | 166 | 7491 | 40.3 |
| 5 | 12 | 142 | 3895 | 23.2 |
| 2 | 4 | 102 | 1262 | 11.0 |

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| Dimmstufen-Tabelle | Umgebungstemperatur: 45°C |
|---------------------------|---------------------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 74320 | 418.5 |
| 95 | 240 | 252 | 70599 | 394.3 |
| 90 | 226 | 250 | 66814 | 369.4 |
| 85 | 213 | 248 | 63269 | 347.3 |
| 80 | 199 | 245 | 59412 | 323.9 |
| 75 | 186 | 243 | 55831 | 301.5 |
| 70 | 172 | 240 | 51903 | 278.8 |
| 65 | 159 | 237 | 48217 | 257.1 |
| 60 | 146 | 234 | 44501 | 235.2 |
| 55 | 133 | 230 | 40756 | 214.2 |
| 50 | 121 | 227 | 37270 | 194.7 |
| 45 | 108 | 223 | 33432 | 174.3 |
| 40 | 96 | 218 | 29868 | 155.2 |
| 35 | 83 | 213 | 25873 | 135.3 |
| 30 | 71 | 207 | 22310 | 115.5 |
| 25 | 59 | 201 | 18627 | 96.1 |
| 20 | 47 | 192 | 14906 | 77.0 |
| 15 | 35 | 181 | 11145 | 58.3 |
| 10 | 23 | 166 | 7342 | 39.9 |
| 5 | 12 | 142 | 3818 | 23.0 |
| 2 | 4 | 102 | 1237 | 10.9 |

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| Lichtstrom-Tabelle | sITeco |
|---------------------------|---------------|

| Temperatur °C | Lichtstrom lm | Systemleistung W |
|------------------|------------------|---------------------|
| 25.0 | 76000.0 | 422.2 |
| 45.0 | 74320.0 | 418.5 |