



Photometric test report

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|---|--|---|
| Family Highbay 11 | Order number: 51HN11DA4HDA EAN: 4069025230409 | LP number 59711_176 |
|  | Version | primary light control with lens, PMMA, housing, white, narrow distribution |
| | Lamps | LED 4000 K CRI ≥ 80 |
| | Controlgear | ECG-DALI |
| | Setting | DC mode (central or group accumulator) initial emergency light level |
| | Rated values | Net luminous flux = 2890 lm Power consumption = 14.5 W Luminous efficacy = 199.3 lm/W |
| | | serial documentation 14.02.2025 |
| | |  |

Luminous intensity in cd/klm
C180-0
C270-90
Imax: 2679 cd/klm



| Classifications | |
|-----------------|-------------------------------------|
| DIN 5040 | A 7 0 |
| CIE | N1=85 N2=97 N3=100 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

Measurement conditions
 DIN EN 13032 and DIN 5032

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| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | Luminous flux in lm/klm | | |
| 0,0° | 2678.6 | 2678.6 | 2678.6 | 2678.6 | 2678.6 | 2678.6 | 2678.6 | 4.0 | 4.0 |
| 2,5° | 2608.0 | 2619.4 | 2619.4 | 2616.5 | 2617.6 | 2616.2 | 2606.1 | 31.3 | 35.3 |
| 5,0° | 2420.1 | 2415.7 | 2414.1 | 2408.4 | 2406.6 | 2402.3 | 2391.7 | 57.6 | 92.8 |
| 7,5° | 2113.4 | 2116.1 | 2112.3 | 2103.0 | 2097.6 | 2090.5 | 2079.6 | 75.2 | 168.1 |
| 10,0° | 1780.1 | 1768.7 | 1762.7 | 1751.6 | 1743.6 | 1735.2 | 1724.7 | 83.4 | 251.5 |
| 12,5° | 1410.1 | 1409.3 | 1404.7 | 1395.9 | 1388.1 | 1380.5 | 1373.1 | 82.8 | 334.3 |
| 15,0° | 1106.5 | 1097.8 | 1095.0 | 1089.4 | 1083.1 | 1078.4 | 1073.9 | 77.3 | 411.5 |
| 17,5° | 830.1 | 840.2 | 835.5 | 831.1 | 826.6 | 824.9 | 824.1 | 68.5 | 480.0 |
| 20,0° | 671.1 | 661.9 | 651.8 | 643.2 | 639.9 | 639.4 | 641.0 | 60.8 | 540.8 |
| 22,5° | 531.9 | 530.5 | 514.2 | 498.9 | 497.0 | 496.6 | 496.8 | 53.4 | 594.2 |
| 25,0° | 450.6 | 441.3 | 420.6 | 401.3 | 399.0 | 395.8 | 392.4 | 47.9 | 642.1 |
| 27,5° | 370.8 | 368.7 | 351.4 | 331.7 | 326.8 | 321.1 | 316.0 | 43.1 | 685.2 |
| 30,0° | 320.4 | 312.1 | 300.8 | 284.1 | 278.0 | 270.2 | 264.7 | 39.7 | 724.9 |
| 32,5° | 271.0 | 266.8 | 259.0 | 245.6 | 238.0 | 229.0 | 224.7 | 36.5 | 761.4 |
| 35,0° | 235.8 | 228.9 | 222.7 | 210.5 | 201.6 | 193.0 | 191.7 | 33.3 | 794.7 |
| 37,5° | 204.4 | 197.8 | 191.5 | 181.1 | 172.0 | 164.3 | 162.4 | 30.3 | 825.0 |
| 40,0° | 176.7 | 170.7 | 163.1 | 154.3 | 146.1 | 138.3 | 135.6 | 27.3 | 852.2 |
| 42,5° | 147.6 | 145.5 | 138.6 | 130.6 | 123.2 | 115.8 | 113.3 | 24.2 | 876.4 |
| 45,0° | 126.0 | 121.8 | 116.3 | 109.0 | 102.0 | 95.3 | 93.2 | 21.1 | 897.6 |
| 47,5° | 103.2 | 101.5 | 97.1 | 90.9 | 84.6 | 78.4 | 76.7 | 18.3 | 915.9 |
| 50,0° | 85.9 | 82.9 | 79.4 | 74.6 | 69.1 | 63.7 | 61.9 | 15.5 | 931.4 |
| 52,5° | 69.0 | 67.2 | 64.5 | 61.0 | 56.2 | 51.6 | 49.7 | 13.0 | 944.4 |
| 55,0° | 55.6 | 54.1 | 52.2 | 49.5 | 45.7 | 41.7 | 40.0 | 10.9 | 955.3 |
| 57,5° | 43.6 | 43.1 | 41.8 | 39.8 | 37.0 | 33.6 | 32.2 | 9.0 | 964.3 |
| 60,0° | 33.2 | 33.3 | 33.9 | 32.4 | 30.5 | 27.5 | 26.1 | 7.4 | 971.7 |
| 62,5° | 25.9 | 26.0 | 27.0 | 26.2 | 25.1 | 22.4 | 21.3 | 6.1 | 977.8 |
| 65,0° | 21.6 | 21.2 | 21.7 | 21.3 | 20.9 | 18.8 | 17.7 | 5.1 | 982.9 |
| 67,5° | 17.0 | 17.1 | 17.8 | 17.0 | 17.3 | 15.6 | 14.8 | 4.3 | 987.2 |
| 70,0° | 13.5 | 13.4 | 14.4 | 13.6 | 14.1 | 13.0 | 12.4 | 3.5 | 990.7 |
| 72,5° | 11.0 | 10.8 | 10.9 | 10.9 | 11.0 | 10.7 | 10.6 | 2.8 | 993.5 |
| 75,0° | 9.0 | 8.4 | 8.4 | 8.3 | 8.6 | 9.0 | 8.9 | 2.3 | 995.8 |
| 77,5° | 6.6 | 6.4 | 6.2 | 6.2 | 6.6 | 7.3 | 7.4 | 1.8 | 997.5 |
| 80,0° | 4.4 | 4.2 | 4.1 | 4.2 | 4.7 | 5.7 | 5.8 | 1.3 | 998.8 |
| 82,5° | 2.0 | 2.1 | 2.2 | 2.4 | 3.0 | 3.9 | 4.1 | 0.8 | 999.6 |
| 85,0° | 0.8 | 0.8 | 0.8 | 1.0 | 1.5 | 2.2 | 2.4 | 0.4 | 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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|-----------|---------------|--------|--|--|--|--|--|--|--|--|
| UGR-Table | Standard room | siteco | | | | | | | | |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflection factor of ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| Reflection factor of walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| Reflection factor of floor | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | View crosswise (C0) | | | | | View endwise (C90) | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 13.2 | 14.4 | 13.5 | 14.7 | 15.0 | 12.0 | 13.2 | 12.3 | 13.5 | 13.8 |
| | 3H | 13.4 | 14.4 | 13.8 | 14.8 | 15.1 | 12.3 | 13.3 | 12.7 | 13.6 | 14.0 |
| | 4H | 13.5 | 14.4 | 13.9 | 14.8 | 15.2 | 12.4 | 13.4 | 12.8 | 13.7 | 14.1 |
| | 6H | 13.5 | 14.4 | 14.0 | 14.7 | 15.1 | 12.6 | 13.4 | 13.0 | 13.8 | 14.2 |
| | 8H | 13.6 | 14.3 | 14.0 | 14.7 | 15.1 | 12.7 | 13.4 | 13.1 | 13.8 | 14.2 |
| | 12H | 13.6 | 14.2 | 14.0 | 14.6 | 15.0 | 12.7 | 13.3 | 13.1 | 13.7 | 14.2 |
| 4H | 2H | 13.2 | 14.2 | 13.6 | 14.5 | 14.9 | 12.2 | 13.1 | 12.6 | 13.5 | 13.8 |
| | 3H | 13.6 | 14.3 | 14.0 | 14.7 | 15.1 | 12.6 | 13.4 | 13.0 | 13.8 | 14.2 |
| | 4H | 13.7 | 14.4 | 14.1 | 14.8 | 15.2 | 12.8 | 13.5 | 13.2 | 13.9 | 14.3 |
| | 6H | 13.7 | 14.3 | 14.2 | 14.8 | 15.2 | 13.0 | 13.6 | 13.4 | 14.0 | 14.5 |
| | 8H | 13.7 | 14.2 | 14.2 | 14.7 | 15.2 | 13.0 | 13.6 | 13.5 | 14.0 | 14.5 |
| | 12H | 13.7 | 14.1 | 14.2 | 14.6 | 15.1 | 13.1 | 13.5 | 13.6 | 14.0 | 14.5 |
| 8H | 4H | 13.7 | 14.2 | 14.1 | 14.6 | 15.1 | 12.8 | 13.3 | 13.3 | 13.8 | 14.2 |
| | 6H | 13.7 | 14.2 | 14.2 | 14.6 | 15.1 | 13.0 | 13.4 | 13.5 | 13.9 | 14.4 |
| | 8H | 13.7 | 14.1 | 14.2 | 14.6 | 15.1 | 13.1 | 13.5 | 13.6 | 14.0 | 14.5 |
| | 12H | 13.7 | 14.0 | 14.2 | 14.5 | 15.0 | 13.2 | 13.5 | 13.7 | 14.0 | 14.6 |
| 12H | 4H | 13.6 | 14.1 | 14.1 | 14.5 | 15.0 | 12.8 | 13.2 | 13.3 | 13.7 | 14.2 |
| | 6H | 13.7 | 14.1 | 14.2 | 14.6 | 15.1 | 13.0 | 13.4 | 13.5 | 13.8 | 14.4 |
| | 8H | 13.7 | 14.0 | 14.2 | 14.5 | 15.1 | 13.1 | 13.4 | 13.6 | 13.9 | 14.5 |

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| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 426 B = 264 |
|-----------------|---------------------------------|-------------------------------|--------------------|

| C-planes | γ | Luminance 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° | | |
| 45,0° | | 4578.6 | 4425.7 | 4226.3 | 3962.0 | 3706.9 | 3464.4 | 3386.8 | | |
| 50,0° | | 3432.4 | 3312.9 | 3172.6 | 2984.2 | 2760.5 | 2544.9 | 2472.9 | | |
| 55,0° | | 2490.6 | 2423.1 | 2339.2 | 2217.7 | 2046.8 | 1868.3 | 1793.2 | | |
| 60,0° | | 1708.8 | 1710.7 | 1742.5 | 1664.8 | 1565.8 | 1412.7 | 1342.2 | | |
| 65,0° | | 1312.0 | 1289.8 | 1319.1 | 1297.8 | 1270.3 | 1141.6 | 1079.1 | | |
| 70,0° | | 1016.5 | 1004.2 | 1078.8 | 1018.8 | 1057.3 | 973.4 | 930.2 | | |
| 75,0° | | 891.1 | 836.3 | 838.2 | 826.9 | 853.1 | 889.5 | 887.9 | | |
| 80,0° | | 650.1 | 626.0 | 605.5 | 616.5 | 688.9 | 836.6 | 853.6 | | |
| 85,0° | | 240.6 | 237.6 | 248.6 | 281.0 | 431.4 | 635.1 | 719.7 | | |

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco

