# Lichttechnischer Prüfbefund

**Familie**
## Lunis 21 M

## Bestell-Nr.: 51DB36EC12B1D
## EAN: 4069025791092

| | |
|---|---|
| **Ausführung** | Einbauleuchte, Kombinierte Linsen und Reflektor Optik, Reflektor, schwarz, elliptisch strahlend, UGR≤22 |
| **Bestückung** | LED 3000 K \| CRI ≥ 90 |
| **Betriebsgerät** | EVG-DALI-Multilumen |
| **Einstellung** | Werkseinstellung: DIP-Stufe=3 |
| **Bemessungswerte** | Nettolichtstrom = 1410 lm<br>Systemleistung = 12.2 W<br>Lichtausbeute = 115.6 lm/W |

**LP-Nummer**
**60051_8**

**Seriendokumentation**
**15.04.2026**

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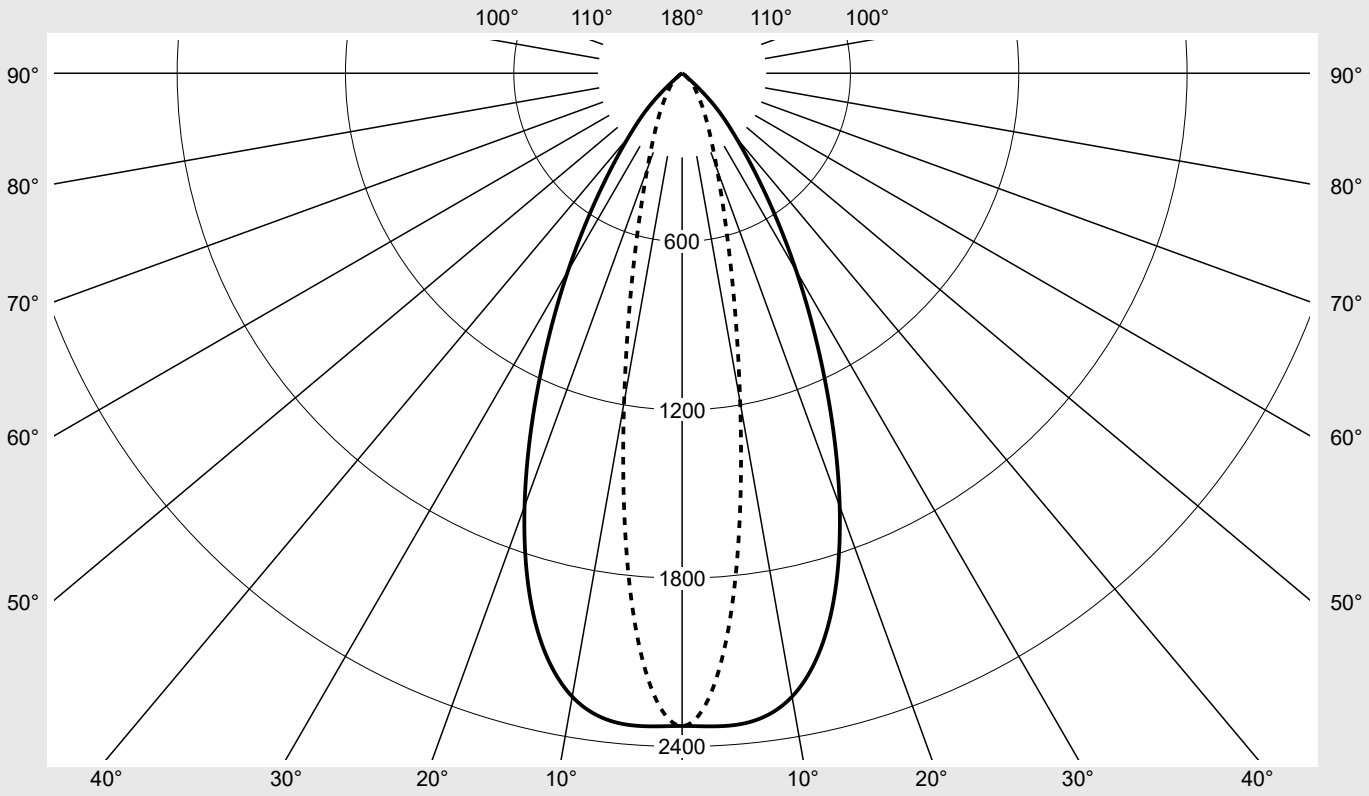
## Lichtstärke in cd/klm

C180-0 C270-90

**Imax: 2330 cd/klm**




| Klassifizierungen | |
|---|---|
| DIN 5040 | A 7 0 |
| CIE | N1=94 N2=100 N3=100 N4=100 N5=100 |

| Leuchtenbetriebswirkungsgrade | |
|---|---|
| $\eta_{LB}$ | 100,0% |
| $\phi_u$ | 100,0% |
| $\phi_o$ | 0,0% |

**Messbedingungen**

DIN EN 13032 und DIN 5032

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## Wertetabelle Lichtstärkemessung

Maximale Lichtstärke

| C-Ebenen | 0° | 15° 345° | 30° 330° | 45° 315° | 60° 300° | 75° 285° | 90° 270° |
|---|---|---|---|---|---|---|---|
| γ | | | | Lichtstärke in cd/klm | | | |
| 0° | 2326.7 | 2326.7 | 2326.7 | 2326.7 | 2326.7 | 2326.7 | 2326.7 |
| 5° | 2329.9 | 2304.3 | 2235.3 | 2139.2 | 2038.4 | 1981.0 | 1955.9 |
| 10° | 2256.4 | 2156.1 | 1924.4 | 1647.6 | 1399.8 | 1250.2 | 1191.6 |
| 15° | 2024.4 | 1853.4 | 1476.1 | 1084.0 | 813.0 | 677.6 | 637.9 |
| 20° | 1642.2 | 1440.8 | 1013.5 | 656.5 | 464.0 | 384.9 | 363.4 |
| 25° | 1203.0 | 1016.4 | 647.6 | 388.4 | 277.5 | 238.4 | 228.8 |
| 30° | 813.8 | 674.7 | 411.8 | 243.9 | 177.4 | 157.3 | 153.4 |
| 35° | 504.8 | 420.5 | 253.1 | 151.7 | 114.8 | 104.9 | 102.3 |
| 40° | 297.7 | 249.2 | 152.6 | 95.4 | 77.6 | 72.4 | 71.1 |
| 45° | 161.4 | 137.9 | 88.7 | 60.6 | 52.5 | 50.0 | 50.1 |
| 50° | 36.9 | 34.8 | 30.7 | 27.4 | 26.0 | 26.0 | 26.0 |
| 55° | 13.5 | 13.4 | 13.1 | 13.0 | 12.9 | 13.2 | 13.4 |
| 60° | 5.0 | 5.0 | 5.0 | 5.0 | 5.1 | 5.1 | 5.0 |
| 65° | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 |
| 70° | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 80° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 85° | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| C-Ebenen | 105° 255° | 120° 240° | 135° 225° | 150° 210° | 165° 195° | 180° | Phi-Zone | Summe Phi-Zone |
|---|---|---|---|---|---|---|---|---|
| γ | | | Lichtstärke in cd/klm | | | | Lichtstrom in lm/klm | |
| 0° | 2326.7 | 2326.7 | 2326.7 | 2326.7 | 2326.7 | 2326.7 | **13.9** | **13.9** |
| 5° | 1981.0 | 2038.4 | 2139.2 | 2235.3 | 2304.3 | 2329.9 | **102.2** | **116.2** |
| 10° | 1250.2 | 1399.8 | 1647.6 | 1924.4 | 2156.1 | 2256.4 | **160.3** | **276.4** |
| 15° | 677.6 | 813.0 | 1084.0 | 1476.1 | 1853.4 | 2024.4 | **171.1** | **447.5** |
| 20° | 384.9 | 464.0 | 656.5 | 1013.5 | 1440.8 | 1642.2 | **155.1** | **602.5** |
| 25° | 238.4 | 277.5 | 388.4 | 647.6 | 1016.4 | 1203.0 | **126.8** | **729.4** |
| 30° | 157.3 | 177.4 | 243.9 | 411.8 | 674.7 | 813.8 | **98.1** | **827.5** |
| 35° | 104.9 | 114.8 | 151.7 | 253.1 | 420.5 | 504.8 | **70.7** | **898.2** |
| 40° | 72.4 | 77.6 | 95.4 | 152.6 | 249.2 | 297.7 | **48.8** | **947.0** |
| 45° | 50.0 | 52.5 | 60.6 | 88.7 | 137.9 | 161.4 | **32.0** | **979.0** |
| 50° | 26.0 | 26.0 | 27.4 | 30.7 | 34.8 | 36.9 | **12.3** | **991.3** |
| 55° | 13.2 | 12.9 | 13.0 | 13.1 | 13.4 | 13.5 | **5.9** | **997.2** |
| 60° | 5.1 | 5.1 | 5.0 | 5.0 | 5.0 | 5.0 | **2.4** | **999.6** |
| 65° | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | **0.2** | **999.8** |
| 70° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | **0.1** | **999.9** |
| 75° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | **0.1** | **999.9** |
| 80° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | **0.1** | **1000.0** |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | **0.0** | **1000.0** |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | **1000.0** |

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## UGR-Tabelle

Standardraum

| 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 x | y | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| 2H | 2H | 21,6 | 22,7 | 21,9 | 23,0 | 23,3 | 14,5 | 15,6 | 14,9 | 15,9 | 16,2 |
| | 3H | 21,5 | 22,4 | 21,8 | 22,7 | 23,1 | 14,3 | 15,3 | 14,7 | 15,6 | 16,0 |
| | 4H | 21,4 | 22,2 | 21,8 | 22,6 | 22,9 | 14,2 | 15,1 | 14,6 | 15,5 | 15,8 |
| | 6H | 21,3 | 22,0 | 21,8 | 22,4 | 22,8 | 14,1 | 14,9 | 14,5 | 15,3 | 15,7 |
| | 8H | 21,3 | 21,9 | 21,8 | 22,3 | 22,7 | 14,1 | 14,9 | 14,5 | 15,2 | 15,6 |
| | 12H | 21,3 | 21,9 | 21,8 | 22,3 | 22,7 | 14,1 | 14,8 | 14,6 | 15,2 | 15,6 |
| 4H | 2H | 21,3 | 22,2 | 21,7 | 22,6 | 22,9 | 14,4 | 15,2 | 14,8 | 15,5 | 15,9 |
| | 3H | 21,1 | 21,9 | 21,6 | 22,2 | 22,7 | 14,1 | 14,8 | 14,6 | 15,2 | 15,6 |
| | 4H | 21,0 | 21,7 | 21,5 | 22,1 | 22,5 | 14,0 | 14,6 | 14,4 | 15,0 | 15,5 |
| | 6H | 21,0 | 21,5 | 21,4 | 21,9 | 22,4 | 13,9 | 14,4 | 14,4 | 14,9 | 15,3 |
| | 8H | 20,9 | 21,4 | 21,4 | 21,8 | 22,3 | 13,8 | 14,3 | 14,3 | 14,8 | 15,3 |
| | 12H | 20,9 | 21,2 | 21,4 | 21,7 | 22,2 | 13,8 | 14,2 | 14,3 | 14,7 | 15,2 |
| 8H | 4H | 20,9 | 21,4 | 21,4 | 21,8 | 22,3 | 13,9 | 14,3 | 14,4 | 14,8 | 15,3 |
| | 6H | 20,8 | 21,1 | 21,3 | 21,6 | 22,1 | 13,7 | 14,1 | 14,2 | 14,6 | 15,1 |
| | 8H | 20,7 | 21,0 | 21,2 | 21,5 | 22,1 | 13,7 | 14,0 | 14,2 | 14,5 | 15,0 |
| | 12H | 20,7 | 20,9 | 21,2 | 21,4 | 22,0 | 13,6 | 13,9 | 14,1 | 14,4 | 14,9 |
| 12H | 4H | 20,8 | 21,2 | 21,3 | 21,7 | 22,2 | 13,9 | 14,2 | 14,4 | 14,7 | 15,2 |
| | 6H | 20,7 | 21,0 | 21,2 | 21,5 | 22,1 | 13,7 | 14,0 | 14,2 | 14,5 | 15,0 |
| | 8H | 20,6 | 20,9 | 21,2 | 21,4 | 22,0 | 13,6 | 13,9 | 14,1 | 14,4 | 14,9 |

## Leuchtdichten-Tabelle

Max. für $\gamma >= 65°$

Lichttechnische Abmessungen in mm: D = 84

| C-Ebenen | 0° | 15° 345° | 30° 330° | 45° 315° | 60° 300° | 75° 285° | 90° 270° | 105° 255° | 120° 240° | 135° 225° | 150° 210° | 165° 195° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| γ | Leuchtdichte in cd/m² | | | | | | | | | | | | |
| 45° | 58068.2 | 49618.5 | 31928.7 | 21789.3 | 18876.5 | 17977.7 | 18013.7 | 17977.7 | 18876.5 | 21789.3 | 31928.7 | 49618.5 | 58068.2 |
| 50° | 14595.3 | 13764.8 | 12143.1 | 10837.7 | 10283.9 | 10283.9 | 10283.9 | 10283.9 | 10283.9 | 10837.7 | 12143.1 | 13764.8 | 14595.3 |
| 55° | 5984.0 | 5939.6 | 5806.6 | 5762.2 | 5718.3 | 5850.9 | 5939.6 | 5850.9 | 5718.3 | 5762.2 | 5806.6 | 5939.6 | 5984.0 |
| 60° | 2542.8 | 2542.8 | 2542.8 | 2542.8 | 2593.2 | 2593.2 | 2542.8 | 2593.2 | 2593.2 | 2542.8 | 2542.8 | 2542.8 | 2542.8 |
| 65° | 180.6 | 180.6 | 180.6 | 240.8 | 240.8 | 240.8 | 240.8 | 240.8 | 240.8 | 240.8 | 180.6 | 180.6 | 180.6 |
| 70° | 148.8 | 148.8 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 148.8 | 148.8 |
| 75° | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 |
| 80° | 146.5 | 146.5 | 146.5 | 146.5 | 146.5 | 146.5 | 146.5 | 146.5 | 146.5 | 146.5 | 146.5 | 146.5 | 146.5 |
| 85° | 291.9 | 291.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 291.9 | 291.9 |

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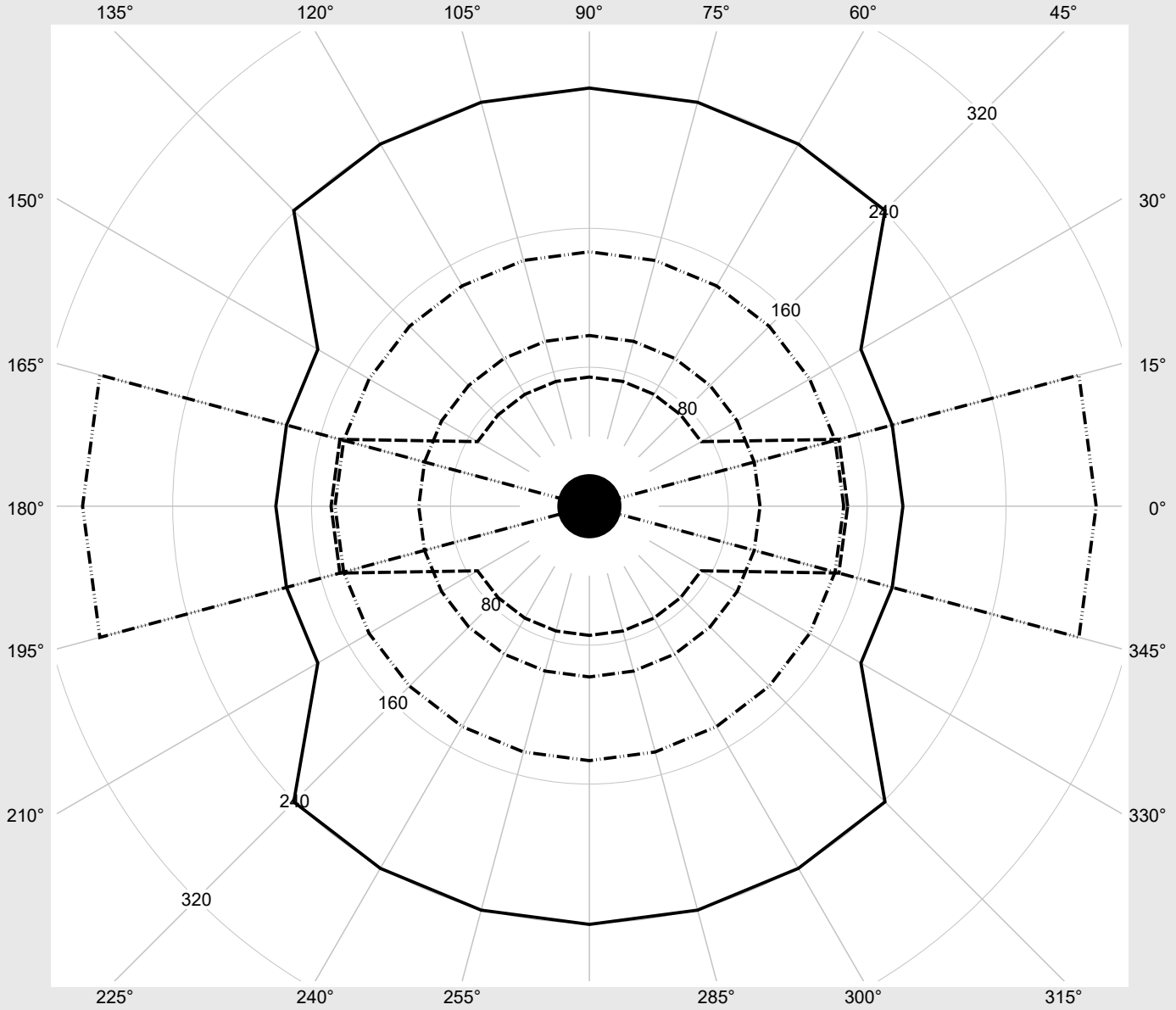
**Leuchtdichten in cd/m²** γ 65° γ 70° γ 75° γ 80° γ 85°



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### Multilumen-Tabelle

**Umgebungstemperatur: 25°C**

| DIP-Stufe | Schalterstellung 1 | 2 | 3 | Lichtstrom [lm] | Systemleistung [W] |
|---|---|---|---|---|---|
| 6 | ON | ON | OFF | 2010 | 18.4 |
| 5 | ON | OFF | ON | 1820 | 16.2 |
| 4 | ON | OFF | OFF | 1610 | 14.4 |
| 3 | OFF | ON | ON | 1410 | 12.2 |
| 2 | OFF | ON | OFF | 1190 | 10.0 |
| 1 | OFF | OFF | ON | 970 | 8.1 |
| 0 | OFF | OFF | OFF | 740 | 6.2 |