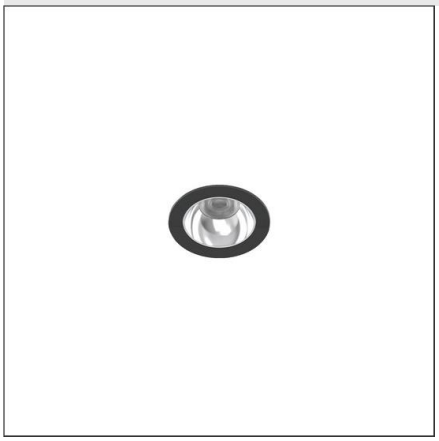
# Lichttechnischer Prüfbefund

**Familie**
## Lunis 21 M



## Bestell-Nr.: 51DB36EC11B1D
## EAN: 4069025791054

| | |
|---|---|
| **Ausführung** | Einbauleuchte, Kombinierte Linsen und Reflektor Optik, Reflektor, Alu, hochglänzend, elliptisch strahlend, UGR≤22 |
| **Bestückung** | LED 3000 K \| CRI ≥ 90 |
| **Betriebsgerät** | EVG-DALI-Multilumen |
| **Einstellung** | Werkseinstellung: DIP-Stufe=3 |
| **Bemessungswerte** | Nettolichtstrom = 1530 lm<br>Systemleistung = 12.2 W<br>Lichtausbeute = 125.4 lm/W |

**LP-Nummer**
**60048_8**

**Seriendokumentation**
**15.04.2026**

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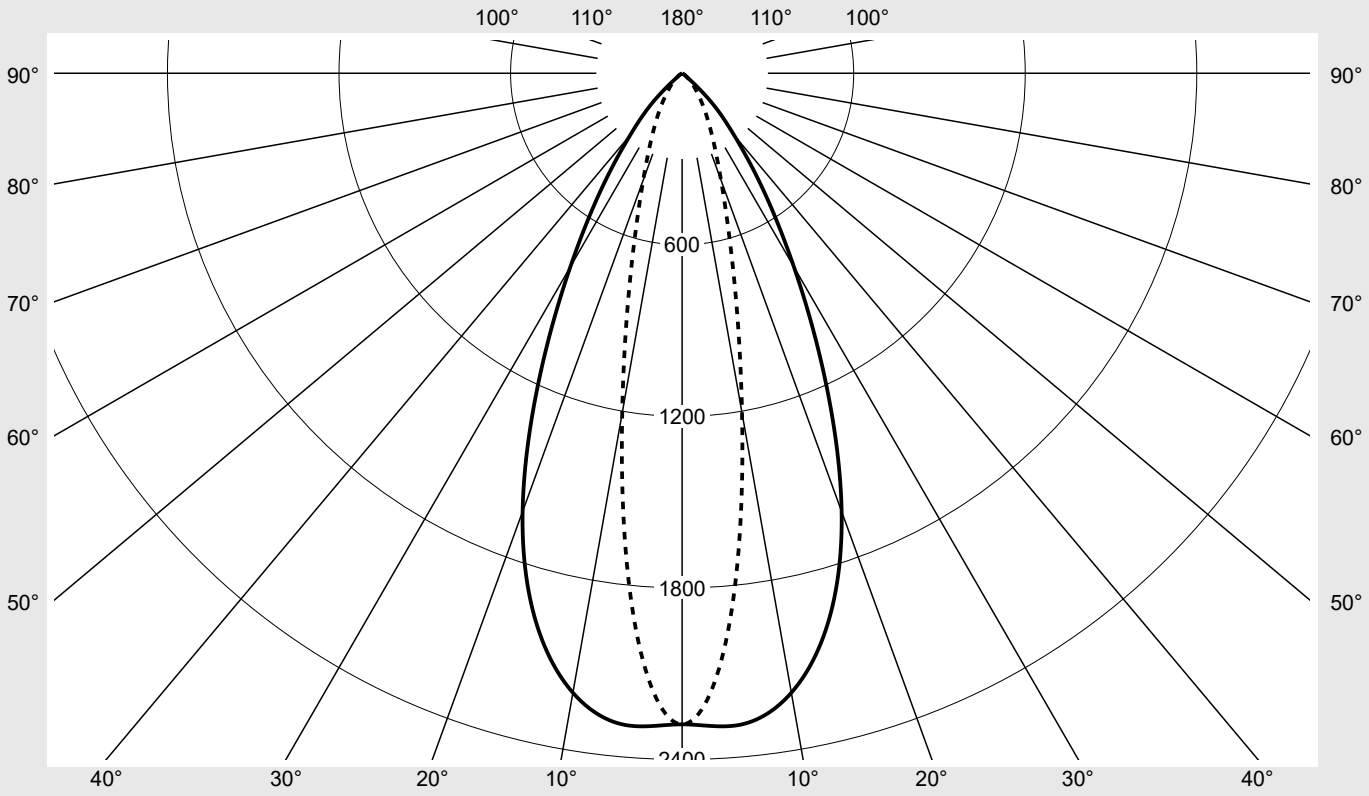
## Lichtstärke in cd/klm

C180-0 C270-90

**Imax: 2288 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° | 2277.0 | 2277.0 | 2277.0 | 2277.0 | 2277.0 | 2277.0 | 2277.0 |
| 5° | 2287.9 | 2260.1 | 2193.7 | 2099.8 | 2010.2 | 1944.9 | 1920.8 |
| 10° | 2200.0 | 2120.5 | 1898.1 | 1638.7 | 1408.5 | 1257.8 | 1206.4 |
| 15° | 1981.1 | 1818.4 | 1450.0 | 1094.8 | 845.3 | 714.0 | 674.9 |
| 20° | 1631.1 | 1441.2 | 1018.3 | 679.7 | 496.3 | 419.5 | 397.8 |
| 25° | 1185.2 | 1003.7 | 649.4 | 407.4 | 301.8 | 264.5 | 255.6 |
| 30° | 782.0 | 655.4 | 409.9 | 254.4 | 193.1 | 174.3 | 170.0 |
| 35° | 488.0 | 404.2 | 252.0 | 156.8 | 122.9 | 113.0 | 111.7 |
| 40° | 282.8 | 237.1 | 147.8 | 94.4 | 77.9 | 73.4 | 72.0 |
| 45° | 151.4 | 130.3 | 83.5 | 57.8 | 50.4 | 48.4 | 48.1 |
| 50° | 34.4 | 32.9 | 29.3 | 26.6 | 25.5 | 25.6 | 25.6 |
| 55° | 13.6 | 13.5 | 13.2 | 13.1 | 13.2 | 13.6 | 13.7 |
| 60° | 5.1 | 5.1 | 5.1 | 5.2 | 5.3 | 5.3 | 5.3 |
| 65° | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 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° | 2277.0 | 2277.0 | 2277.0 | 2277.0 | 2277.0 | 2277.0 | **13.6** | **13.6** |
| 5° | 1944.9 | 2010.2 | 2099.8 | 2193.7 | 2260.1 | 2287.9 | **100.4** | **114.0** |
| 10° | 1257.8 | 1408.5 | 1638.7 | 1898.1 | 2120.5 | 2200.0 | **159.1** | **273.1** |
| 15° | 714.0 | 845.3 | 1094.8 | 1450.0 | 1818.4 | 1981.1 | **171.4** | **444.5** |
| 20° | 419.5 | 496.3 | 679.7 | 1018.3 | 1441.2 | 1631.1 | **158.4** | **602.9** |
| 25° | 264.5 | 301.8 | 407.4 | 649.4 | 1003.7 | 1185.2 | **129.2** | **732.2** |
| 30° | 174.3 | 193.1 | 254.4 | 409.9 | 655.4 | 782.0 | **98.8** | **831.0** |
| 35° | 113.0 | 122.9 | 156.8 | 252.0 | 404.2 | 488.0 | **70.7** | **901.6** |
| 40° | 73.4 | 77.9 | 94.4 | 147.8 | 237.1 | 282.8 | **47.4** | **949.1** |
| 45° | 48.4 | 50.4 | 57.8 | 83.5 | 130.3 | 151.4 | **30.4** | **979.5** |
| 50° | 25.6 | 25.5 | 26.6 | 29.3 | 32.9 | 34.4 | **11.9** | **991.3** |
| 55° | 13.6 | 13.2 | 13.1 | 13.2 | 13.5 | 13.6 | **6.0** | **997.3** |
| 60° | 5.3 | 5.3 | 5.2 | 5.1 | 5.1 | 5.1 | **2.5** | **999.8** |
| 65° | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | **0.2** | **1000.0** |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | **1000.0** |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | **1000.0** |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | **1000.0** |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | **1000.0** |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | **1000.0** |

# Lichttechnischer Prüfbefund

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| Lunis 21 M | EAN: 4069025791054 | 60048_8 |

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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 | 14,9 | 16,0 | 15,3 | 16,3 | 16,6 |
| | 3H | 21,5 | 22,4 | 21,9 | 22,7 | 23,1 | 14,7 | 15,7 | 15,1 | 16,0 | 16,4 |
| | 4H | 21,4 | 22,2 | 21,8 | 22,6 | 23,0 | 14,6 | 15,5 | 15,0 | 15,9 | 16,3 |
| | 6H | 21,3 | 22,0 | 21,8 | 22,4 | 22,8 | 14,6 | 15,4 | 15,0 | 15,7 | 16,1 |
| | 8H | 21,3 | 22,0 | 21,8 | 22,3 | 22,8 | 14,5 | 15,3 | 14,9 | 15,7 | 16,1 |
| | 12H | 21,3 | 21,9 | 21,8 | 22,3 | 22,7 | 14,6 | 15,2 | 15,0 | 15,6 | 16,0 |
| 4H | 2H | 21,3 | 22,2 | 21,7 | 22,6 | 22,9 | 14,8 | 15,6 | 15,2 | 15,9 | 16,3 |
| | 3H | 21,1 | 21,9 | 21,6 | 22,3 | 22,7 | 14,5 | 15,2 | 15,0 | 15,6 | 16,0 |
| | 4H | 21,0 | 21,7 | 21,5 | 22,1 | 22,5 | 14,4 | 15,0 | 14,9 | 15,5 | 15,9 |
| | 6H | 21,0 | 21,5 | 21,4 | 21,9 | 22,4 | 14,3 | 14,8 | 14,8 | 15,3 | 15,8 |
| | 8H | 20,9 | 21,4 | 21,4 | 21,8 | 22,3 | 14,3 | 14,7 | 14,7 | 15,2 | 15,7 |
| | 12H | 20,9 | 21,3 | 21,4 | 21,7 | 22,2 | 14,2 | 14,6 | 14,7 | 15,1 | 15,6 |
| 8H | 4H | 20,9 | 21,4 | 21,4 | 21,8 | 22,3 | 14,3 | 14,7 | 14,8 | 15,2 | 15,7 |
| | 6H | 20,8 | 21,2 | 21,3 | 21,6 | 22,1 | 14,1 | 14,5 | 14,7 | 15,0 | 15,5 |
| | 8H | 20,7 | 21,0 | 21,2 | 21,5 | 22,1 | 14,1 | 14,4 | 14,6 | 14,9 | 15,4 |
| | 12H | 20,7 | 20,9 | 21,2 | 21,4 | 22,0 | 14,0 | 14,3 | 14,6 | 14,8 | 15,4 |
| 12H | 4H | 20,9 | 21,3 | 21,4 | 21,7 | 22,2 | 14,3 | 14,6 | 14,8 | 15,1 | 15,6 |
| | 6H | 20,7 | 21,0 | 21,3 | 21,5 | 22,1 | 14,1 | 14,4 | 14,6 | 14,9 | 15,4 |
| | 8H | 20,7 | 20,9 | 21,2 | 21,4 | 22,0 | 14,0 | 14,3 | 14,6 | 14,8 | 15,4 |

## 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° | 59111.9 | 50884.9 | 32597.3 | 22576.6 | 19690.8 | 18911.1 | 18794.0 | 18911.1 | 19690.8 | 22576.6 | 32597.3 | 50884.9 | 59111.9 |
| 50° | 14755.5 | 14112.1 | 12568.0 | 11409.6 | 10938.0 | 10980.9 | 10980.9 | 10980.9 | 10938.0 | 11409.6 | 12568.0 | 14112.1 | 14755.5 |
| 55° | 6537.1 | 6488.9 | 6345.0 | 6296.9 | 6345.0 | 6537.1 | 6585.2 | 6537.1 | 6345.0 | 6296.9 | 6345.0 | 6488.9 | 6537.1 |
| 60° | 2812.2 | 2812.2 | 2812.2 | 2867.4 | 2922.6 | 2922.6 | 2922.6 | 2922.6 | 2922.6 | 2867.4 | 2812.2 | 2812.2 | 2812.2 |
| 65° | 196.0 | 196.0 | 196.0 | 260.7 | 260.7 | 326.0 | 326.0 | 326.0 | 260.7 | 260.7 | 196.0 | 196.0 | 196.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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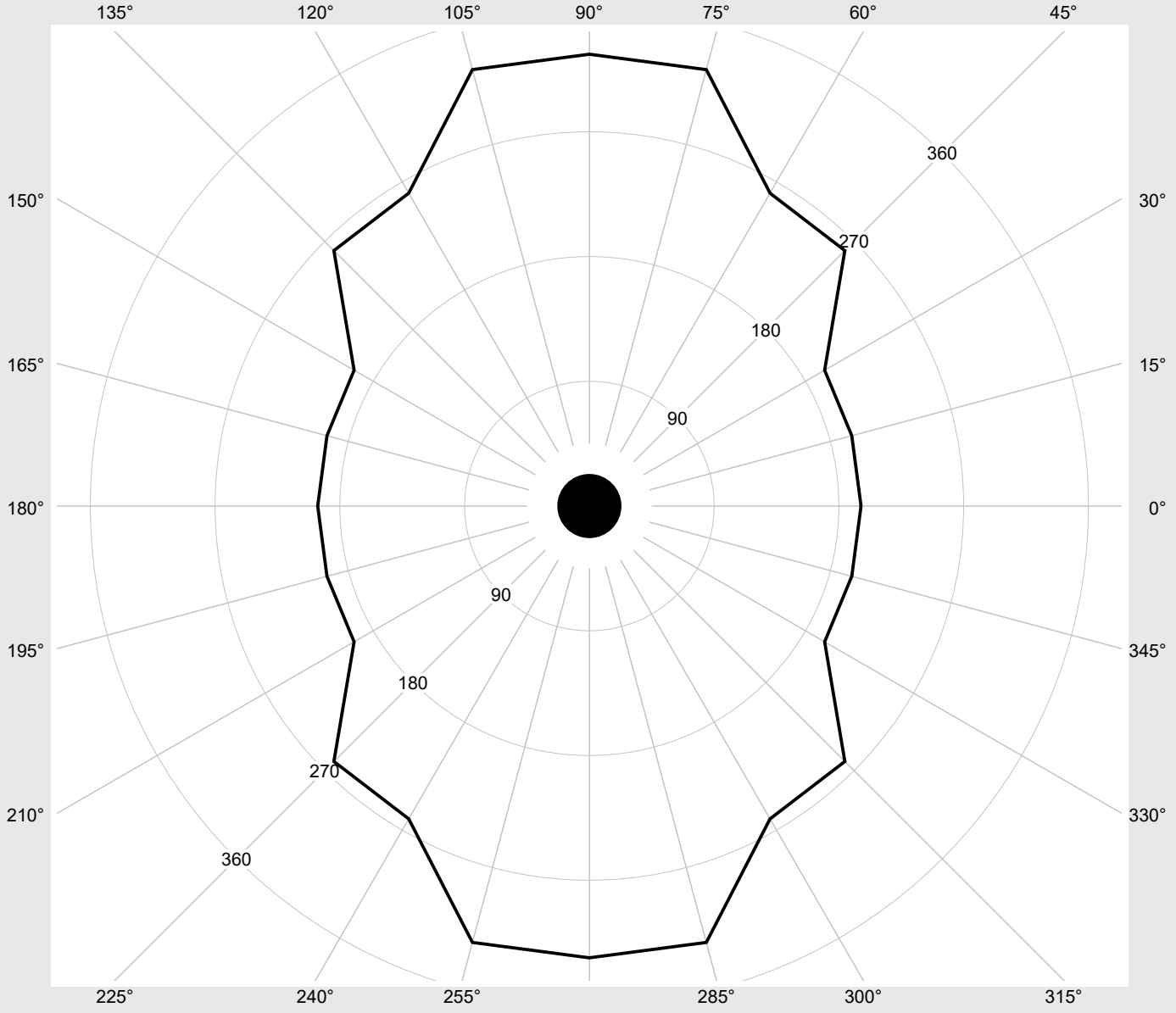
**Leuchtdichten in cd/m²** γ 65° γ 70° γ 75° γ 80° γ 85°



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### Multilumen-Tabelle

**Umgebungstemperatur: 25°C**

| DIP-Stufe | Schalterstellung 1 | 2 | 3 | Lichtstrom [lm] | Systemleistung [W] |
|---|---|---|---|---|---|
| 6 | ON | ON | OFF | 2190 | 18.4 |
| 5 | ON | OFF | ON | 1980 | 16.2 |
| 4 | ON | OFF | OFF | 1760 | 14.4 |
| 3 | OFF | ON | ON | 1530 | 12.2 |
| 2 | OFF | ON | OFF | 1300 | 10.0 |
| 1 | OFF | OFF | ON | 1050 | 8.1 |
| 0 | OFF | OFF | OFF | 800 | 6.2 |