# Lichttechnischer Prüfbefund

**Familie**
**Lunis 21 M**

**Bestell-Nr.: 51DB37MC11D1D**
**EAN: 4069025791634**

**LP-Nummer**
**60055_5**

**Seriendokumentation**
**15.04.2026**

| | |
|---|---|
| **Ausführung** | Einbauleuchte, Kombinierte Linsen und Reflektor Optik, Reflektor, Alu, hochglänzend, asymmetrisch strahlend |
| **Bestückung** | LED 4000 K \| CRI ≥ 90 |
| **Betriebsgerät** | EVG-Multilumen |
| **Einstellung** | Werkseinstellung: DIP-Stufe=4 |
| **Bemessungswerte** | Nettolichtstrom = 1440 lm<br>Systemleistung = 11.4 W<br>Lichtausbeute = 126.3 lm/W |

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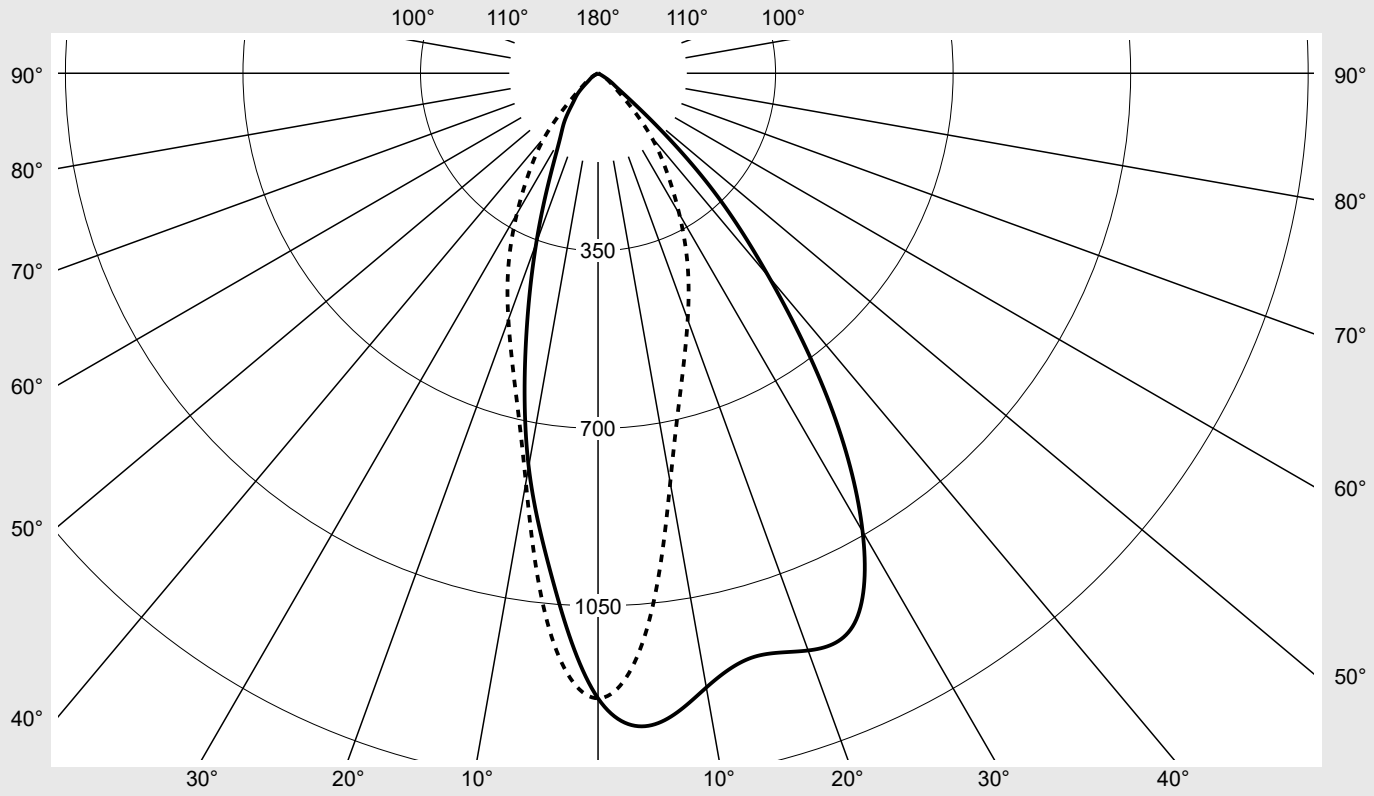
## Lichtstärke in cd/klm

C180-0 C270-90

**Imax: 1288 cd/klm**




**Klassifizierungen**

| | |
|---|---|
| DIN 5040 | A 6 0 |
| CIE | N1=87 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° | 1232.3 | 1232.3 | 1232.3 | 1232.3 | 1232.3 | 1232.3 | 1232.3 |
| 5° | 1288.2 | 1274.9 | 1252.2 | 1220.3 | 1179.7 | 1141.5 | 1100.9 |
| 10° | 1229.6 | 1211.6 | 1148.2 | 1070.1 | 984.9 | 889.9 | 819.4 |
| 15° | 1190.9 | 1179.0 | 1105.8 | 1016.2 | 905.7 | 732.2 | 634.4 |
| 20° | 1210.9 | 1193.6 | 1121.7 | 997.6 | 856.5 | 639.7 | 516.8 |
| 25° | 1196.3 | 1175.0 | 1106.5 | 958.2 | 739.5 | 581.7 | 417.8 |
| 30° | 1043.1 | 1058.6 | 1041.5 | 913.1 | 668.3 | 460.7 | 320.2 |
| 35° | 797.8 | 830.8 | 876.8 | 831.5 | 610.4 | 387.0 | 235.3 |
| 40° | 523.7 | 558.5 | 636.0 | 676.6 | 520.0 | 300.7 | 162.5 |
| 45° | 299.8 | 324.0 | 391.8 | 442.1 | 290.1 | 136.9 | 83.4 |
| 50° | 91.3 | 100.2 | 131.8 | 128.6 | 61.4 | 44.2 | 40.7 |
| 55° | 35.0 | 35.2 | 33.2 | 26.3 | 24.1 | 24.3 | 24.2 |
| 60° | 10.8 | 10.5 | 10.2 | 10.7 | 11.1 | 11.3 | 11.7 |
| 65° | 0.5 | 0.5 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 |
| 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° | 1232.3 | 1232.3 | 1232.3 | 1232.3 | 1232.3 | 1232.3 | 7.4 | 7.4 |
| 5° | 1074.4 | 1047.7 | 1024.8 | 1010.0 | 1004.4 | 1008.6 | 53.7 | 61.0 |
| 10° | 778.7 | 743.6 | 695.5 | 695.0 | 750.0 | 787.5 | 85.6 | 146.7 |
| 15° | 609.4 | 571.2 | 509.8 | 489.7 | 518.9 | 549.3 | 108.1 | 254.7 |
| 20° | 502.4 | 448.0 | 394.3 | 366.5 | 354.0 | 356.1 | 127.7 | 382.5 |
| 25° | 338.3 | 289.5 | 255.5 | 236.0 | 226.5 | 222.4 | 135.8 | 518.2 |
| 30° | 229.3 | 191.5 | 171.2 | 157.7 | 151.9 | 150.9 | 136.1 | 654.4 |
| 35° | 163.8 | 140.5 | 127.9 | 118.7 | 115.0 | 115.0 | 128.2 | 782.6 |
| 40° | 109.9 | 96.4 | 88.0 | 81.2 | 78.6 | 78.4 | 106.0 | 888.6 |
| 45° | 64.8 | 58.6 | 55.6 | 54.4 | 55.2 | 56.1 | 69.0 | 957.5 |
| 50° | 39.2 | 36.6 | 32.3 | 29.9 | 29.0 | 29.0 | 25.7 | 983.2 |
| 55° | 25.1 | 23.8 | 19.7 | 19.1 | 18.3 | 17.8 | 11.2 | 994.5 |
| 60° | 12.4 | 11.0 | 10.4 | 9.9 | 9.5 | 9.3 | 5.1 | 999.6 |
| 65° | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | 0.8 | 0.4 | 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 |

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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 | 27,6 | 28,9 | 28,0 | 29,2 | 29,5 | 22,6 | 23,9 | 23,0 | 24,2 | 24,5 |
| | 3H | 27,5 | 28,6 | 27,9 | 28,9 | 29,3 | 22,5 | 23,6 | 22,9 | 23,9 | 24,3 |
| | 4H | 27,4 | 28,4 | 27,8 | 28,8 | 29,1 | 22,4 | 23,4 | 22,8 | 23,8 | 24,1 |
| | 6H | 27,3 | 28,2 | 27,8 | 28,6 | 29,0 | 22,3 | 23,2 | 22,7 | 23,6 | 24,0 |
| | 8H | 27,3 | 28,2 | 27,8 | 28,5 | 28,9 | 22,3 | 23,1 | 22,7 | 23,5 | 23,9 |
| | 12H | 27,4 | 28,1 | 27,8 | 28,5 | 28,9 | 22,3 | 23,1 | 22,7 | 23,5 | 23,9 |
| 4H | 2H | 27,4 | 28,4 | 27,8 | 28,8 | 29,1 | 22,4 | 23,4 | 22,8 | 23,8 | 24,2 |
| | 3H | 27,2 | 28,1 | 27,7 | 28,5 | 28,9 | 22,3 | 23,1 | 22,7 | 23,5 | 23,9 |
| | 4H | 27,1 | 27,9 | 27,6 | 28,3 | 28,7 | 22,2 | 22,9 | 22,6 | 23,3 | 23,8 |
| | 6H | 27,0 | 27,7 | 27,5 | 28,1 | 28,6 | 22,1 | 22,7 | 22,5 | 23,1 | 23,6 |
| | 8H | 27,0 | 27,6 | 27,5 | 28,0 | 28,5 | 22,0 | 22,6 | 22,5 | 23,0 | 23,5 |
| | 12H | 27,0 | 27,5 | 27,5 | 27,9 | 28,4 | 22,0 | 22,5 | 22,5 | 23,0 | 23,4 |
| 8H | 4H | 27,0 | 27,6 | 27,5 | 28,0 | 28,5 | 22,1 | 22,6 | 22,5 | 23,1 | 23,5 |
| | 6H | 26,9 | 27,4 | 27,4 | 27,8 | 28,3 | 21,9 | 22,4 | 22,4 | 22,9 | 23,4 |
| | 8H | 26,8 | 27,2 | 27,4 | 27,7 | 28,3 | 21,9 | 22,3 | 22,4 | 22,8 | 23,3 |
| | 12H | 26,8 | 27,1 | 27,3 | 27,6 | 28,2 | 21,8 | 22,2 | 22,3 | 22,7 | 23,2 |
| 12H | 4H | 27,0 | 27,5 | 27,5 | 27,9 | 28,4 | 22,0 | 22,5 | 22,5 | 23,0 | 23,5 |
| | 6H | 26,9 | 27,2 | 27,4 | 27,7 | 28,3 | 21,9 | 22,3 | 22,4 | 22,8 | 23,3 |
| | 8H | 26,8 | 27,1 | 27,3 | 27,6 | 28,2 | 21,8 | 22,2 | 22,4 | 22,7 | 23,2 |

## 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° | 110181.1 | 119043.9 | 143978.2 | 162476.6 | 106613.6 | 50309.7 | 30634.6 | 23794.1 | 21550.6 | 20447.8 | 20006.5 | 20300.5 | 20631.6 |
| 50° | 36896.0 | 40496.2 | 53280.1 | 51986.1 | 24839.8 | 17881.5 | 16465.8 | 15858.6 | 14806.8 | 13067.3 | 12096.3 | 11732.0 | 11732.0 |
| 55° | 15868.1 | 15958.7 | 15052.2 | 11923.6 | 10926.1 | 11016.7 | 10971.4 | 11379.5 | 10790.2 | 8931.4 | 8659.1 | 8297.2 | 8070.2 |
| 60° | 5617.3 | 5460.9 | 5305.0 | 5565.4 | 5773.2 | 5877.2 | 6085.0 | 6449.3 | 5721.3 | 5408.9 | 5149.1 | 4941.2 | 4836.8 |
| 65° | 307.4 | 307.4 | 431.0 | 492.5 | 492.5 | 554.0 | 615.5 | 676.9 | 676.9 | 615.5 | 676.9 | 615.5 | 492.5 |
| 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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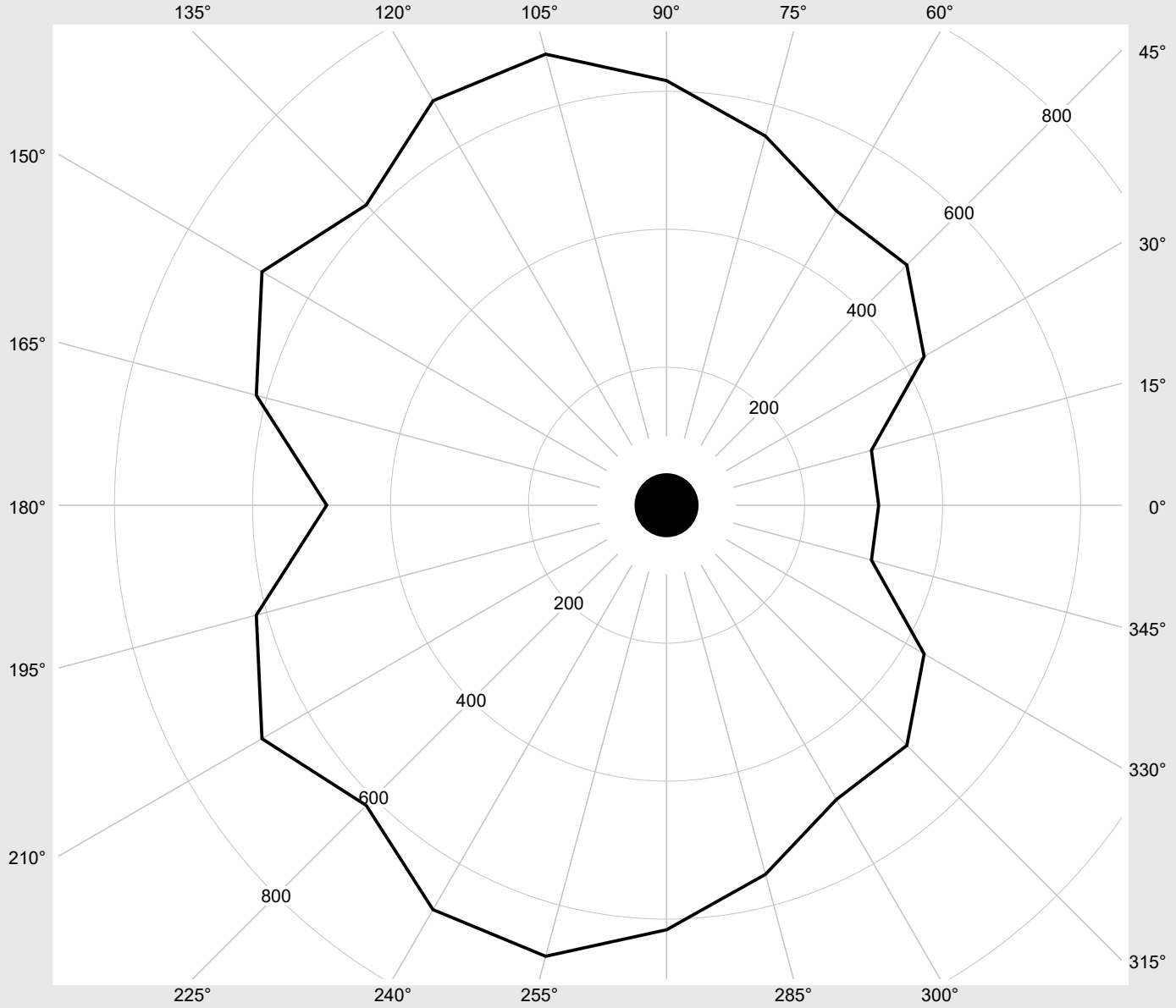
**Leuchtdichten in cd/m²** γ 65° γ 70° γ 75° γ 80° γ 85°



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## Multilumen-Tabelle

Umgebungstemperatur: 25°C

| DIP-Stufe | Schalterstellung 1 | 2 | 3 | Lichtstrom [lm] | Systemleistung [W] |
|---|---|---|---|---|---|
| 7 | ON | ON | ON | 2060 | 17.4 |
| 6 | ON | ON | OFF | 1860 | 15.3 |
| 5 | ON | OFF | ON | 1660 | 13.3 |
| 4 | ON | OFF | OFF | 1440 | 11.4 |
| 3 | OFF | ON | ON | 1220 | 9.4 |
| 2 | OFF | ON | OFF | 990 | 7.4 |
| 1 | OFF | OFF | ON | 760 | 5.7 |