# Lichttechnischer Prüfbefund

**Familie**
**Apollon® 21**



**Bestell-Nr.: 51MQ12WD2W55**
**EAN: 4069025336460**

| | |
|---|---|
| **Ausführung** | Einbauleuchte für Einlegemontage, quadratisch M600, breit strahlend, UGR≤19 (L65≤3000cd/m²), Tunable White |
| **Bestückung** | LED 2700 K ... 6500 K \| CRI ≥ 90 |
| **Betriebsgerät** | EVG-DALI |
| **Einstellung** | Werkseinstellung: DIP-Stufe=7, Farbtemperatur 4000K |
| **Bemessungswerte** | bei 4000 K<br>Nettolichtstrom = 4820 lm<br>Systemleistung = 32.1 W<br>Lichtausbeute = 150.2 lm/W |

**LP-Nummer**
**59880_6**

**Seriendokumentation**
**30.10.2025**

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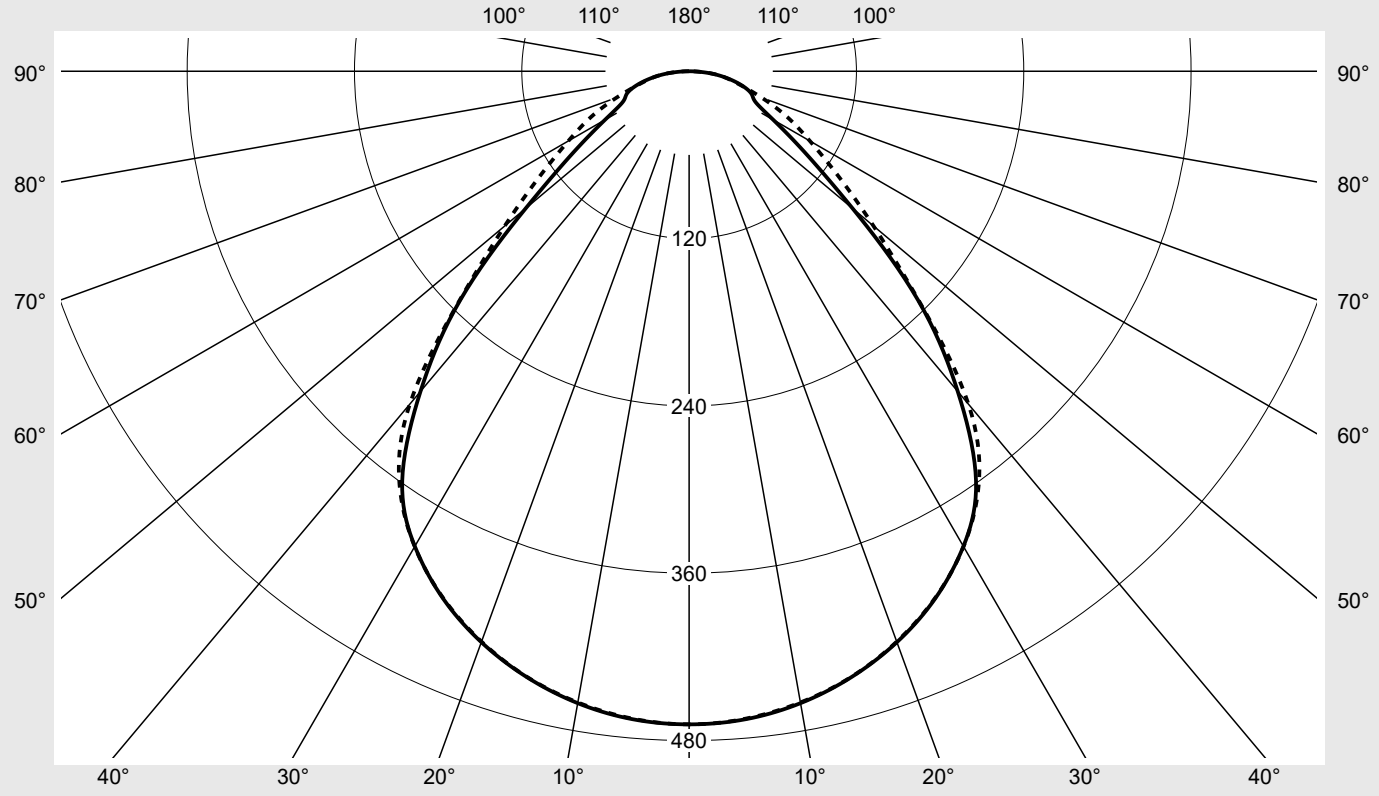
## Lichtstärke in cd/klm

C180-0 C270-90

**Imax: 468 cd/klm**




**Klassifizierungen**

| | |
|---|---|
| DIN 5040 | A 5 0 |
| CIE | N1=62 N2=87 N3=97 N4=100 N5=100 |

**Leuchtenbetriebswirkungsgrade**

| | |
|---|---|
| ηLB | 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 γ | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | Phi-Zone | Summe Phi-Zone |
|---|---|---|---|---|---|---|---|---|---|
| | Lichtstärke in cd/klm | | | | | | | Lichtstrom in lm/klm | |
| 0° | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 2.8 | 2.8 |
| 5° | 466.5 | 466.3 | 466.1 | 466.0 | 466.0 | 466.0 | 466.1 | 22.3 | 25.1 |
| 10° | 460.2 | 460.0 | 459.9 | 459.8 | 459.7 | 459.7 | 459.7 | 43.8 | 68.8 |
| 15° | 449.8 | 449.8 | 449.7 | 449.6 | 449.6 | 449.6 | 449.6 | 63.8 | 132.6 |
| 20° | 435.7 | 435.8 | 435.9 | 435.9 | 435.7 | 435.5 | 435.3 | 81.7 | 214.3 |
| 25° | 417.4 | 417.4 | 417.4 | 417.4 | 417.3 | 417.2 | 417.1 | 96.7 | 311.0 |
| 30° | 393.4 | 393.3 | 393.2 | 393.1 | 393.3 | 393.5 | 393.6 | 107.8 | 418.8 |
| 35° | 358.8 | 359.3 | 359.8 | 360.4 | 360.9 | 361.5 | 362.1 | 113.3 | 532.1 |
| 40° | 299.7 | 301.2 | 302.3 | 304.1 | 306.3 | 309.2 | 311.7 | 107.4 | 639.5 |
| 45° | 232.3 | 229.8 | 227.3 | 224.9 | 227.7 | 230.5 | 233.4 | 88.7 | 728.2 |
| 50° | 153.1 | 157.3 | 162.2 | 165.7 | 168.7 | 170.3 | 172.6 | 69.1 | 797.3 |
| 55° | 101.0 | 108.0 | 116.4 | 121.9 | 126.1 | 127.4 | 130.1 | 53.5 | 850.8 |
| 60° | 69.7 | 77.3 | 85.0 | 92.6 | 95.1 | 97.5 | 100.0 | 42.1 | 892.9 |
| 65° | 52.7 | 59.7 | 66.8 | 73.8 | 75.1 | 76.4 | 77.6 | 34.5 | 927.4 |
| 70° | 47.7 | 51.1 | 54.5 | 57.9 | 57.1 | 56.3 | 55.4 | 28.2 | 955.6 |
| 75° | 39.0 | 40.4 | 41.7 | 43.0 | 41.3 | 39.7 | 38.0 | 21.6 | 977.2 |
| 80° | 27.0 | 27.5 | 28.1 | 28.7 | 28.0 | 27.3 | 26.5 | 15.0 | 992.1 |
| 85° | 13.5 | 13.6 | 13.7 | 13.7 | 13.9 | 14.1 | 14.3 | 7.5 | 999.7 |
| 90° | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.3 | 1000.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 180° | 0.0 | 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 | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 15,7 | 17,2 | 16,0 | 17,5 | 17,8 | 16,4 | 17,9 | 16,7 | 18,2 | 18,5 |
| | 3H | 16,5 | 17,9 | 16,9 | 18,2 | 18,6 | 17,4 | 18,8 | 17,8 | 19,1 | 19,5 |
| | 4H | 17,1 | 18,4 | 17,5 | 18,7 | 19,1 | 17,8 | 19,1 | 18,2 | 19,5 | 19,8 |
| | 6H | 17,6 | 18,8 | 18,0 | 19,2 | 19,5 | 18,2 | 19,4 | 18,6 | 19,8 | 20,2 |
| | 8H | 17,9 | 18,9 | 18,3 | 19,3 | 19,7 | 18,4 | 19,5 | 18,9 | 19,9 | 20,3 |
| | 12H | 18,0 | 19,0 | 18,4 | 19,4 | 19,9 | 18,6 | 19,6 | 19,0 | 20,0 | 20,4 |
| 4H | 2H | 16,2 | 17,5 | 16,6 | 17,8 | 18,2 | 16,8 | 18,1 | 17,2 | 18,4 | 18,8 |
| | 3H | 17,3 | 18,4 | 17,8 | 18,8 | 19,2 | 18,0 | 19,1 | 18,4 | 19,5 | 19,9 |
| | 4H | 18,0 | 19,0 | 18,5 | 19,4 | 19,9 | 18,6 | 19,6 | 19,0 | 20,0 | 20,4 |
| | 6H | 18,7 | 19,6 | 19,2 | 20,0 | 20,4 | 19,1 | 20,0 | 19,6 | 20,4 | 20,9 |
| | 8H | 19,0 | 19,8 | 19,5 | 20,2 | 20,7 | 19,4 | 20,2 | 19,9 | 20,6 | 21,1 |
| | 12H | 19,2 | 19,9 | 19,7 | 20,4 | 20,9 | 19,6 | 20,3 | 20,1 | 20,8 | 21,2 |
| 8H | 4H | 18,4 | 19,2 | 18,9 | 19,6 | 20,1 | 18,9 | 19,7 | 19,4 | 20,1 | 20,6 |
| | 6H | 19,2 | 19,9 | 19,7 | 20,3 | 20,8 | 19,6 | 20,2 | 20,1 | 20,7 | 21,2 |
| | 8H | 19,6 | 20,2 | 20,1 | 20,6 | 21,2 | 19,9 | 20,5 | 20,4 | 21,0 | 21,5 |
| | 12H | 19,9 | 20,4 | 20,4 | 20,9 | 21,4 | 20,2 | 20,7 | 20,8 | 21,2 | 21,7 |
| 12H | 4H | 18,5 | 19,1 | 18,9 | 19,6 | 20,1 | 18,9 | 19,6 | 19,4 | 20,1 | 20,6 |
| | 6H | 19,3 | 19,9 | 19,8 | 20,4 | 20,9 | 19,7 | 20,2 | 20,2 | 20,7 | 21,2 |
| | 8H | 19,8 | 20,2 | 20,3 | 20,7 | 21,3 | 20,1 | 20,5 | 20,6 | 21,0 | 21,6 |

## Leuchtdichten-Tabelle

Max. für $\gamma >= 65°$

Lichttechnische Abmessungen in mm: L = 552, B = 552

| C-Ebenen | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° |
|---|---|---|---|---|---|---|---|
| γ | Leuchtdichte in cd/m² | | | | | | |
| 45° | 5196.1 | 5140.9 | 5085.7 | 5030.5 | 5094.0 | 5157.5 | 5221.1 |
| 50° | 3766.6 | 3870.6 | 3990.4 | 4078.6 | 4151.0 | 4191.8 | 4248.3 |
| 55° | 2785.5 | 2977.8 | 3209.0 | 3362.3 | 3476.8 | 3513.4 | 3588.9 |
| 60° | 2204.2 | 2446.1 | 2687.9 | 2929.7 | 3007.8 | 3085.9 | 3164.0 |
| 65° | 1973.0 | 2236.0 | 2499.0 | 2761.9 | 2809.9 | 2857.9 | 2905.8 |
| 70° | 2203.9 | 2362.0 | 2520.1 | 2678.1 | 2640.2 | 2602.2 | 2564.2 |
| 75° | 2386.0 | 2466.2 | 2546.4 | 2626.6 | 2525.5 | 2424.4 | 2323.4 |
| 80° | 2456.8 | 2508.5 | 2560.2 | 2612.0 | 2547.3 | 2482.6 | 2418.0 |
| 85° | 2457.7 | 2468.0 | 2478.5 | 2488.9 | 2524.5 | 2560.2 | 2595.8 |

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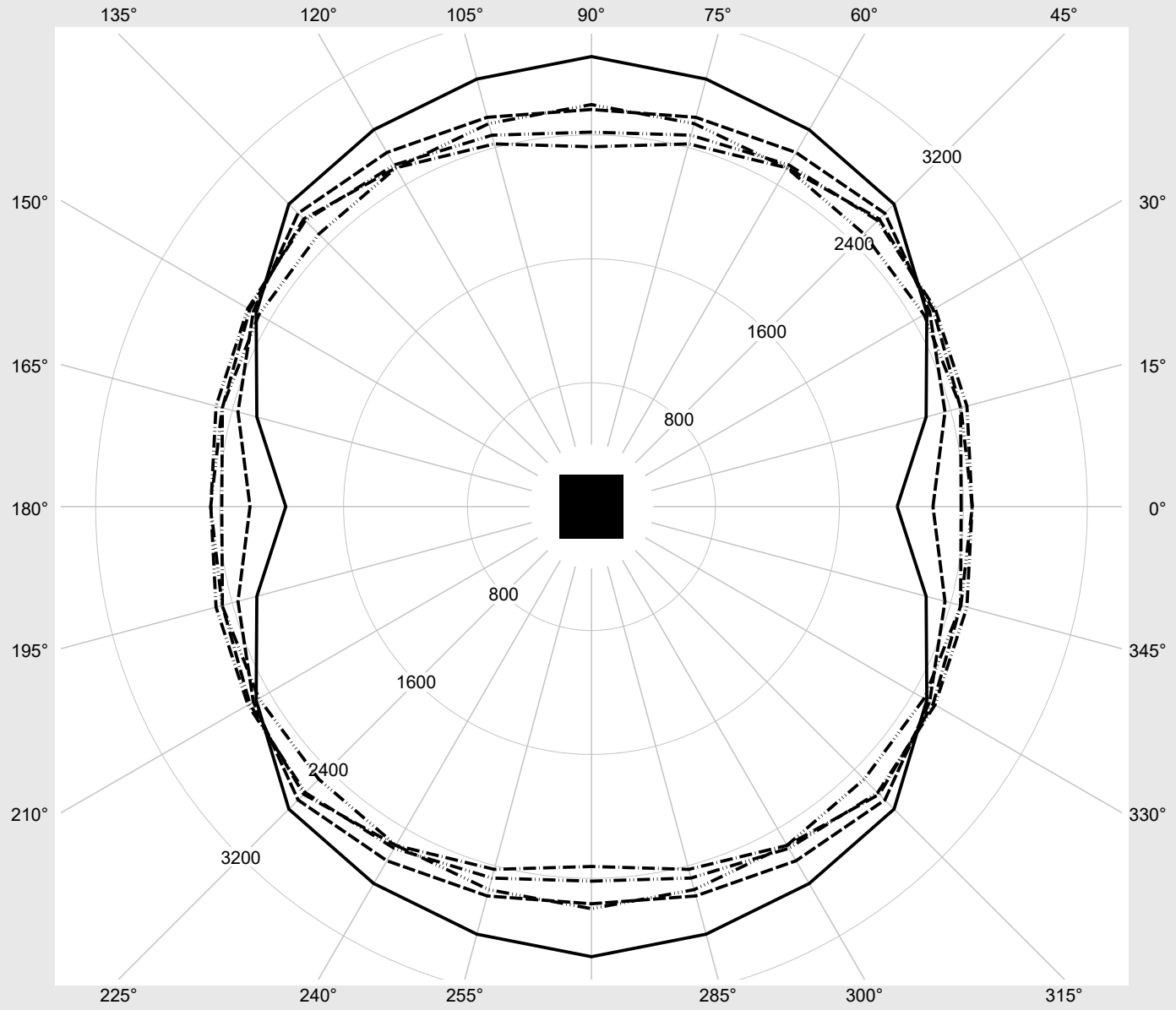
**Leuchtdichten in cd/m²**

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 | 4 | Lichtstrom [lm] | Systemleistung [W] |
|---|---|---|---|---|---|---|
| 0 | OFF | OFF | OFF | OFF | 5790 | 39.0 |
| 1 | ON | OFF | OFF | OFF | 5510 | 37.0 |
| 2 | OFF | ON | OFF | OFF | 5220 | 35.0 |
| 4 | OFF | OFF | ON | OFF | 5100 | 34.1 |
| 7 | ON | ON | ON | OFF | 4820 | 32.1 |
| 8 | OFF | OFF | OFF | ON | 4530 | 30.1 |
| 10 | OFF | ON | OFF | ON | 4160 | 27.6 |
| 12 | OFF | OFF | ON | ON | 3960 | 26.3 |
| 13 | ON | OFF | ON | ON | 3650 | 24.1 |
| 14 | OFF | ON | ON | ON | 3350 | 22.1 |