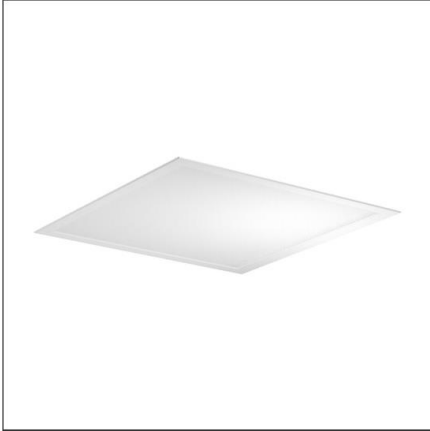


## Lichttechnischer Prüfbefund

**Familie**  
**Apollon® 21**

**Bestell-Nr.: 51MQ11WD2414**  
**EAN: 4058352928110**

**LP-Nummer**  
**59548\_12**



**Ausführung** Einbauleuchte für Einlegemontage, quadratisch M625, breit strahlend, UGR≤19 (L65≤3000cd/m<sup>2</sup>)

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 4200 lm  
Systemleistung = 24.7 W  
Lichtausbeute = 170 lm/W

**Seriendokumentation**  
**29.01.2024**

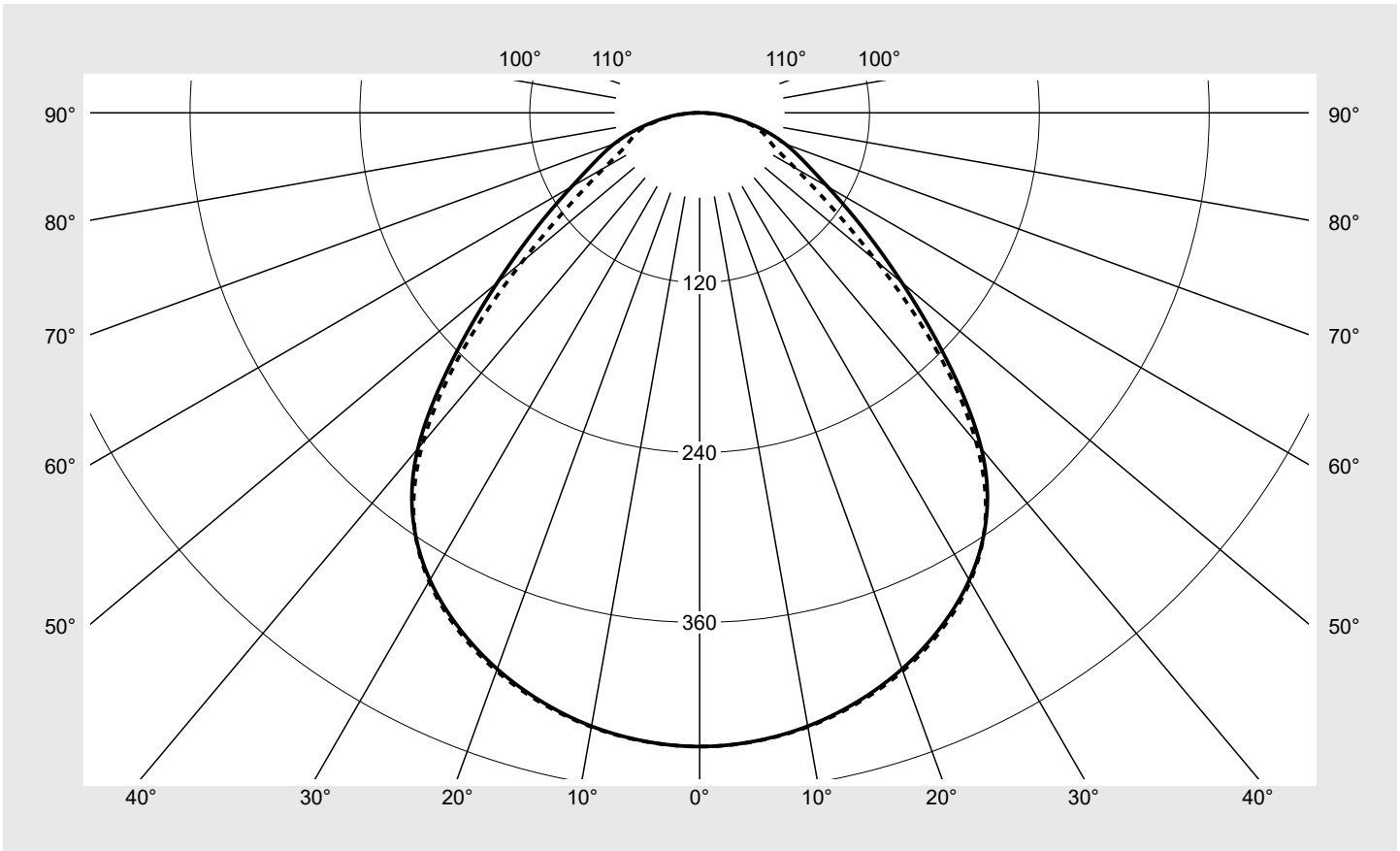
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 448 cd/klm**



**Klassifizierungen**

DIN 5040 A 5 0  
CIE N1=60 N2=87 N3=97  
N4=100 N5=100

**Leuchtenbetriebswirkungsgrade**

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

**Messbedingungen**

DIN EN 13032 und DIN 5032

## Lichttechnischer Prüfbefund

|                                        |                                                               |                              |
|----------------------------------------|---------------------------------------------------------------|------------------------------|
| <b>Familie</b><br>Apollon® 21          | <b>Bestell-Nr.: 51MQ11WD2414</b><br><b>EAN: 4058352928110</b> | <b>LP-Nummer</b><br>59548_12 |
| <b>Wertetabelle Lichtstärkemessung</b> |                                                               | <b>Maximale Lichtstärke</b>  |
|                                        |                                                               | <b>sITeco</b>                |

| C-<br>Ebenen          | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-Zone | Summe<br>Phi-Zone |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------|-------------------|
|                       |            | 165°<br>195°<br>345° | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |          |                   |
| γ                     |            |                      |                      |                      |                      |                      |             |          |                   |
| Lichtstärke in cd/klm |            |                      |                      |                      |                      |                      |             |          |                   |
| Lichtstrom in lm/klm  |            |                      |                      |                      |                      |                      |             |          |                   |
| 0°                    | 447.7      | 447.7                | 447.7                | 447.7                | 447.7                | 447.7                | 447.7       | 2.7      | 2.7               |
| 5°                    | 445.6      | 445.7                | 445.8                | 445.8                | 445.8                | 445.8                | 445.8       | 21.3     | 24.0              |
| 10°                   | 440.0      | 440.1                | 440.1                | 440.3                | 440.4                | 440.4                | 440.5       | 41.9     | 65.9              |
| 15°                   | 430.7      | 430.8                | 431.0                | 431.2                | 431.3                | 431.5                | 431.7       | 61.2     | 127.0             |
| 20°                   | 418.1      | 418.2                | 418.4                | 418.7                | 418.9                | 419.3                | 419.6       | 78.5     | 205.5             |
| 25°                   | 401.8      | 401.9                | 402.1                | 402.3                | 402.5                | 403.0                | 403.5       | 93.2     | 298.8             |
| 30°                   | 381.0      | 381.1                | 381.1                | 381.3                | 381.4                | 381.8                | 382.3       | 104.5    | 403.3             |
| 35°                   | 352.6      | 352.4                | 352.2                | 351.8                | 351.4                | 351.6                | 351.9       | 110.7    | 513.9             |
| 40°                   | 309.7      | 308.8                | 307.7                | 306.1                | 304.4                | 304.3                | 304.0       | 107.9    | 621.9             |
| 45°                   | 246.9      | 244.2                | 241.6                | 240.8                | 240.1                | 238.2                | 236.2       | 93.4     | 715.3             |
| 50°                   | 186.5      | 177.8                | 169.0                | 175.7                | 182.4                | 172.9                | 163.4       | 73.7     | 789.0             |
| 55°                   | 139.5      | 126.8                | 114.1                | 127.5                | 140.9                | 125.4                | 110.0       | 56.8     | 845.8             |
| 60°                   | 104.5      | 91.4                 | 78.4                 | 93.2                 | 107.9                | 92.9                 | 77.8        | 43.9     | 889.7             |
| 65°                   | 81.4       | 68.9                 | 56.4                 | 69.2                 | 82.0                 | 70.6                 | 59.2        | 34.6     | 924.3             |
| 70°                   | 64.4       | 55.9                 | 47.3                 | 54.3                 | 61.2                 | 55.8                 | 50.4        | 28.5     | 952.8             |
| 75°                   | 46.6       | 44.8                 | 42.9                 | 42.8                 | 42.8                 | 42.3                 | 41.8        | 22.9     | 975.7             |
| 80°                   | 29.3       | 29.6                 | 30.0                 | 29.8                 | 29.7                 | 28.4                 | 27.2        | 15.8     | 991.5             |
| 85°                   | 15.1       | 13.9                 | 12.6                 | 14.5                 | 16.3                 | 14.7                 | 13.0        | 7.8      | 999.4             |
| 90°                   | 1.7        | 1.5                  | 1.2                  | 1.2                  | 1.1                  | 0.8                  | 0.5         | 0.6      | 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            |

## Lichttechnischer Prüfbefund

|                               |                                                               |                              |
|-------------------------------|---------------------------------------------------------------|------------------------------|
| <b>Familie</b><br>Apollon® 21 | <b>Bestell-Nr.: 51MQ11WD2414</b><br><b>EAN: 4058352928110</b> | <b>LP-Nummer</b><br>59548_12 |
|-------------------------------|---------------------------------------------------------------|------------------------------|

| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
|                 |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| Raumabmessungen |     |                                     |      |      |      |      |                                       |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 15,8                                | 17,3 | 16,1 | 17,6 | 18,0 | 15,8                                  | 17,4 | 16,2 | 17,7 | 18,0 |
|                 | 3H  | 16,8                                | 18,2 | 17,2 | 18,6 | 18,9 | 16,7                                  | 18,1 | 17,1 | 18,4 | 18,8 |
|                 | 4H  | 17,4                                | 18,7 | 17,8 | 19,1 | 19,4 | 17,2                                  | 18,5 | 17,6 | 18,9 | 19,2 |
|                 | 6H  | 17,9                                | 19,1 | 18,3 | 19,5 | 19,9 | 17,7                                  | 18,9 | 18,1 | 19,2 | 19,6 |
|                 | 8H  | 18,2                                | 19,3 | 18,6 | 19,6 | 20,0 | 17,9                                  | 19,0 | 18,3 | 19,4 | 19,8 |
|                 | 12H | 18,3                                | 19,4 | 18,7 | 19,7 | 20,2 | 18,0                                  | 19,1 | 18,4 | 19,4 | 19,9 |
| 4H              | 2H  | 16,2                                | 17,5 | 16,6 | 17,8 | 18,2 | 16,2                                  | 17,5 | 16,6 | 17,9 | 18,3 |
|                 | 3H  | 17,4                                | 18,5 | 17,8 | 18,9 | 19,3 | 17,4                                  | 18,5 | 17,8 | 18,9 | 19,3 |
|                 | 4H  | 18,1                                | 19,1 | 18,6 | 19,5 | 20,0 | 18,1                                  | 19,1 | 18,5 | 19,5 | 19,9 |
|                 | 6H  | 18,8                                | 19,7 | 19,3 | 20,1 | 20,6 | 18,7                                  | 19,5 | 19,1 | 20,0 | 20,4 |
|                 | 8H  | 19,1                                | 19,9 | 19,5 | 20,3 | 20,8 | 18,9                                  | 19,7 | 19,4 | 20,2 | 20,6 |
|                 | 12H | 19,3                                | 20,0 | 19,8 | 20,5 | 21,0 | 19,1                                  | 19,8 | 19,6 | 20,3 | 20,8 |
| 8H              | 4H  | 18,4                                | 19,2 | 18,9 | 19,7 | 20,1 | 18,4                                  | 19,2 | 18,8 | 19,6 | 20,1 |
|                 | 6H  | 19,3                                | 19,9 | 19,8 | 20,4 | 20,9 | 19,2                                  | 19,8 | 19,6 | 20,3 | 20,8 |
|                 | 8H  | 19,6                                | 20,2 | 20,1 | 20,7 | 21,2 | 19,5                                  | 20,1 | 20,0 | 20,6 | 21,1 |
|                 | 12H | 19,9                                | 20,4 | 20,4 | 20,9 | 21,5 | 19,8                                  | 20,3 | 20,3 | 20,8 | 21,3 |
| 12H             | 4H  | 18,5                                | 19,2 | 19,0 | 19,6 | 20,1 | 18,4                                  | 19,1 | 18,9 | 19,6 | 20,1 |
|                 | 6H  | 19,4                                | 19,9 | 19,9 | 20,4 | 20,9 | 19,3                                  | 19,8 | 19,8 | 20,3 | 20,8 |
|                 | 8H  | 19,8                                | 20,2 | 20,3 | 20,7 | 21,3 | 19,7                                  | 20,1 | 20,2 | 20,6 | 21,2 |

|                                                              |                                                              |
|--------------------------------------------------------------|--------------------------------------------------------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 554<br>B = 554 |
|--------------------------------------------------------------|--------------------------------------------------------------|

| C-Ebenen | $\gamma$ | Leuchtdichte in cd/m <sup>2</sup> |                             |                             |                             |                             |                             |             |  |
|----------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
|          |          | 0°<br>180°                        | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° |  |
| 45°      |          | 4778.7                            | 4726.4                      | 4675.6                      | 4659.9                      | 4647.5                      | 4610.2                      | 4570.5      |  |
| 50°      |          | 3970.3                            | 3784.5                      | 3598.6                      | 3740.8                      | 3883.0                      | 3680.6                      | 3478.3      |  |
| 55°      |          | 3327.5                            | 3024.3                      | 2721.2                      | 3041.4                      | 3361.5                      | 2992.4                      | 2623.3      |  |
| 60°      |          | 2858.8                            | 2502.9                      | 2147.0                      | 2550.5                      | 2953.9                      | 2542.0                      | 2130.1      |  |
| 65°      |          | 2636.9                            | 2231.8                      | 1826.6                      | 2241.4                      | 2656.2                      | 2286.1                      | 1916.1      |  |
| 70°      |          | 2577.0                            | 2235.6                      | 1894.2                      | 2171.6                      | 2449.0                      | 2233.4                      | 2017.7      |  |
| 75°      |          | 2462.7                            | 2366.8                      | 2265.8                      | 2264.7                      | 2263.3                      | 2235.8                      | 2208.3      |  |
| 80°      |          | 2309.8                            | 2335.5                      | 2361.2                      | 2350.9                      | 2340.7                      | 2237.2                      | 2141.9      |  |
| 85°      |          | 2376.1                            | 2180.7                      | 1985.6                      | 2275.3                      | 2565.0                      | 2303.2                      | 2041.5      |  |

**Lichttechnischer Prüfbefund**

|                                      |                                                               |                                     |
|--------------------------------------|---------------------------------------------------------------|-------------------------------------|
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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**

