

### Photometric test report

**Family**  
**Apollon® 21**

**Order number: 51MQ14W72414M**  
**EAN: 4058352928332**

**LP number**  
**59548\_33**

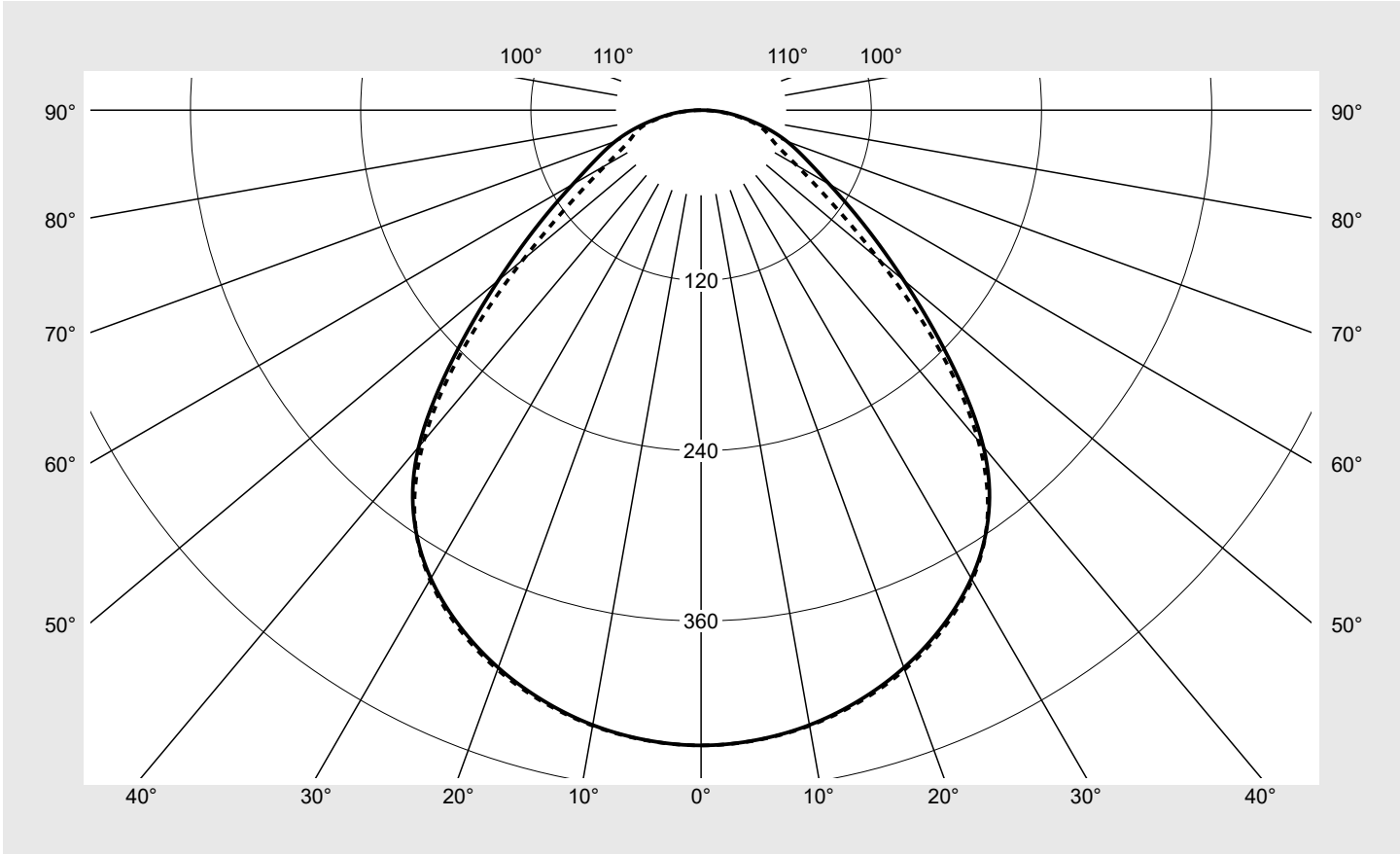


**Version** recessed luminaire for lay-in mounting, linear, wide distribution, UGR≤19 (L65≤3000cd/m²)  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG  
**Rated values** Net luminous flux = 4200 lm  
 Power consumption = 23.3 W  
 Luminous efficacy = 180.3 lm/W

**serial documentation**  
**29.01.2024**



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 448 cd/klm**



**Classifications**

|          |                                    |
|----------|------------------------------------|
| DIN 5040 | A 5 0                              |
| CIE      | N1=60 N2=87 N3=97<br>N4=100 N5=100 |

**Luminaire light output ratios**

|             |        |
|-------------|--------|
| $\eta_{LB}$ | 100.0% |
| $\phi_u$    | 100.0% |
| $\phi_o$    | 0.0%   |

**Measurement conditions**  
DIN EN 13032 and DIN 5032

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| <b>Table of values for luminous intensities</b> |   | <b>Maximum luminous intensity</b> |
|   |   | <b>sITeco</b>                     |

| C-planes<br>γ                | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-zone                | Total<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° |             |                         |                   |
| Luminous intensity in cd/klm |            |                      |                      |                      |                      |                      |             | Luminous flux 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            |

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|------------------------------|---|------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <b>UGR-Table</b> | <b>Standard room</b> | <b>siteco</b> |
|------------------|----------------------|---------------|

|                              |                     |      |      |      |      |                    |      |      |      |      |      |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflection factor of ceiling | 0.7                 | 0.7  | 0.5  | 0.5  | 0.3  | 0.7                | 0.7  | 0.5  | 0.5  | 0.3  |      |
| Reflection factor of walls   | 0.5                 | 0.3  | 0.5  | 0.3  | 0.3  | 0.5                | 0.3  | 0.5  | 0.3  | 0.3  |      |
| Reflection factor of floor   | 0.2                 | 0.2  | 0.2  | 0.2  | 0.2  | 0.2                | 0.2  | 0.2  | 0.2  | 0.2  |      |
| Room dimensions              | View crosswise (C0) |      |      |      |      | View endwise (C90) |      |      |      |      |      |
| x                            | y                   |      |      |      |      |                    |      |      |      |      |      |
| 2H                           | 2H                  | 15.7 | 17.2 | 16.0 | 17.5 | 17.9               | 15.7 | 17.3 | 16.1 | 17.6 | 17.9 |
|                              | 3H                  | 16.7 | 18.1 | 17.1 | 18.4 | 18.8               | 16.6 | 18.0 | 17.0 | 18.3 | 18.7 |
|                              | 4H                  | 17.3 | 18.6 | 17.7 | 19.0 | 19.3               | 17.1 | 18.4 | 17.5 | 18.7 | 19.1 |
|                              | 6H                  | 17.8 | 19.0 | 18.2 | 19.4 | 19.8               | 17.5 | 18.8 | 18.0 | 19.1 | 19.5 |
|                              | 8H                  | 18.0 | 19.2 | 18.5 | 19.5 | 19.9               | 17.8 | 18.9 | 18.2 | 19.3 | 19.7 |
|                              | 12H                 | 18.2 | 19.2 | 18.6 | 19.6 | 20.1               | 17.9 | 18.9 | 18.3 | 19.3 | 19.8 |
| 4H                           | 2H                  | 16.0 | 17.4 | 16.4 | 17.7 | 18.1               | 16.1 | 17.4 | 16.5 | 17.8 | 18.2 |
|                              | 3H                  | 17.3 | 18.4 | 17.7 | 18.7 | 19.2               | 17.3 | 18.4 | 17.7 | 18.8 | 19.2 |
|                              | 4H                  | 18.0 | 19.0 | 18.5 | 19.4 | 19.8               | 18.0 | 18.9 | 18.4 | 19.4 | 19.8 |
|                              | 6H                  | 18.7 | 19.6 | 19.2 | 20.0 | 20.4               | 18.6 | 19.4 | 19.0 | 19.9 | 20.3 |
|                              | 8H                  | 19.0 | 19.7 | 19.4 | 20.2 | 20.7               | 18.8 | 19.6 | 19.3 | 20.0 | 20.5 |
|                              | 12H                 | 19.2 | 19.9 | 19.7 | 20.3 | 20.8               | 19.0 | 19.7 | 19.5 | 20.2 | 20.7 |
| 8H                           | 4H                  | 18.3 | 19.1 | 18.8 | 19.6 | 20.0               | 18.3 | 19.0 | 18.7 | 19.5 | 20.0 |
|                              | 6H                  | 19.2 | 19.8 | 19.7 | 20.3 | 20.8               | 19.0 | 19.7 | 19.5 | 20.2 | 20.7 |
|                              | 8H                  | 19.5 | 20.1 | 20.0 | 20.6 | 21.1               | 19.4 | 20.0 | 19.9 | 20.4 | 21.0 |
|                              | 12H                 | 19.8 | 20.3 | 20.3 | 20.8 | 21.3               | 19.7 | 20.2 | 20.2 | 20.7 | 21.2 |
| 12H                          | 4H                  | 18.4 | 19.1 | 18.9 | 19.5 | 20.0               | 18.3 | 19.0 | 18.8 | 19.5 | 20.0 |
|                              | 6H                  | 19.3 | 19.8 | 19.8 | 20.3 | 20.8               | 19.2 | 19.7 | 19.7 | 20.2 | 20.7 |
|                              | 8H                  | 19.7 | 20.1 | 20.2 | 20.6 | 21.2               | 19.6 | 20.0 | 20.1 | 20.5 | 21.1 |

|                        |   |                                      |                                   |
|------------------------|---|--------------------------------------|-----------------------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 1201</b><br><b>B = 264</b> |
|------------------------|---|--------------------------------------|-----------------------------------|

| C-planes | $\gamma$ | Luminance 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°      |          | 4625.7                         | 4575.2                      | 4525.9                      | 4510.7                      | 4498.7                      | 4462.6                      | 4424.2      |  |
| 50°      |          | 3843.2                         | 3663.4                      | 3483.5                      | 3621.1                      | 3758.7                      | 3562.8                      | 3367.0      |  |
| 55°      |          | 3221.0                         | 2927.5                      | 2634.1                      | 2944.0                      | 3253.9                      | 2896.6                      | 2539.4      |  |
| 60°      |          | 2767.3                         | 2422.8                      | 2078.3                      | 2468.8                      | 2859.4                      | 2460.7                      | 2061.9      |  |
| 65°      |          | 2552.5                         | 2160.3                      | 1768.1                      | 2169.7                      | 2571.2                      | 2213.0                      | 1854.8      |  |
| 70°      |          | 2494.5                         | 2164.0                      | 1833.5                      | 2102.1                      | 2370.6                      | 2161.9                      | 1953.2      |  |
| 75°      |          | 2383.9                         | 2291.1                      | 2193.3                      | 2192.2                      | 2190.8                      | 2164.2                      | 2137.6      |  |
| 80°      |          | 2235.9                         | 2260.7                      | 2285.6                      | 2275.7                      | 2265.8                      | 2165.6                      | 2073.3      |  |
| 85°      |          | 2300.0                         | 2110.9                      | 1922.0                      | 2202.4                      | 2482.9                      | 2229.5                      | 1976.1      |  |

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|                                     |   |                                     |
|-------------------------------------|---|-------------------------------------|
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|-------------------------------------|---|-------------------------------------|



**Luminance values in cd/m<sup>2</sup>**

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| $\gamma$ 65° | $\gamma$ 70° | $\gamma$ 75° | $\gamma$ 80° | $\gamma$ 85° |
|--------------|--------------|--------------|--------------|--------------|

