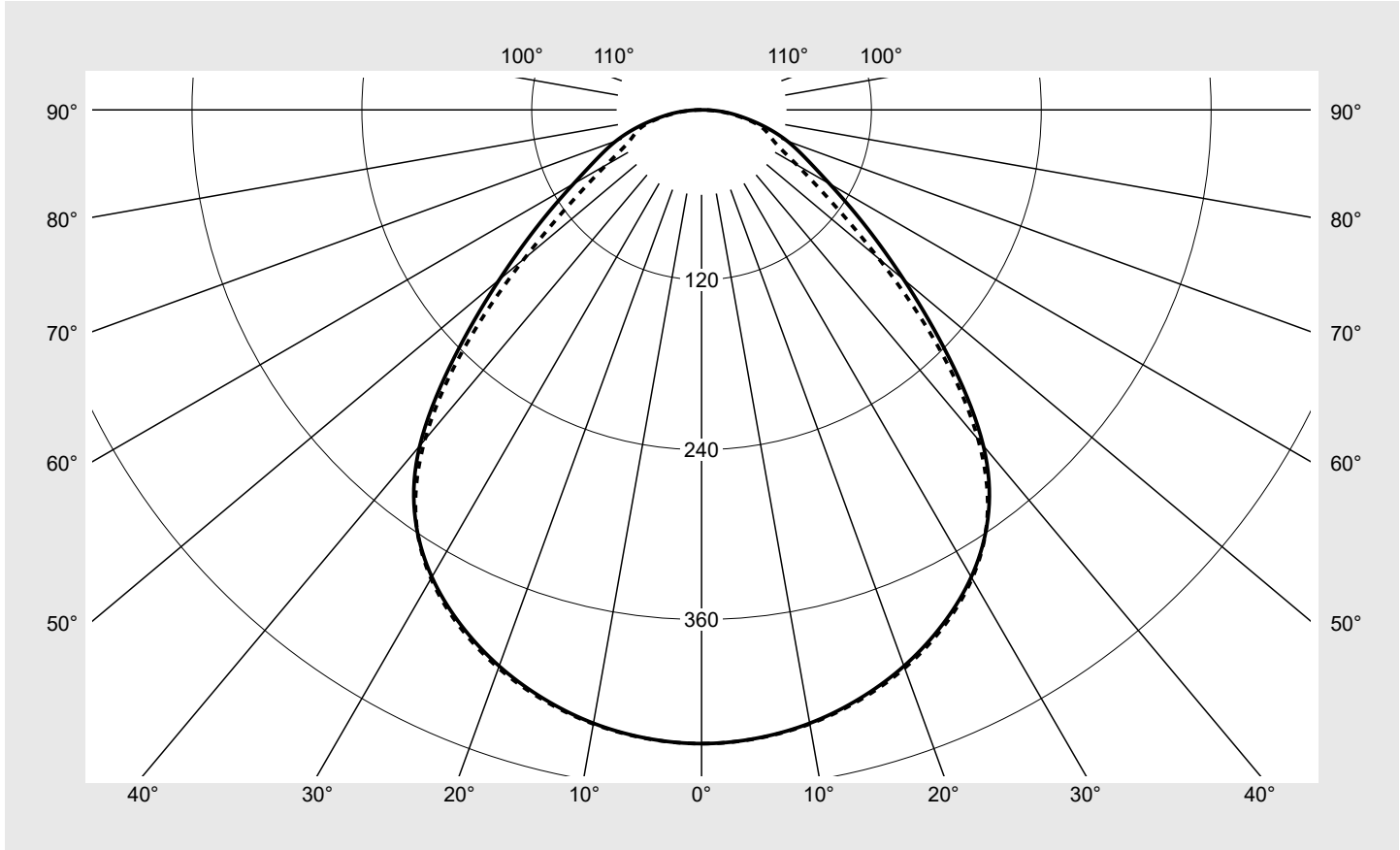


# Photometric test report

|  |   |  |
|--|---|--|
| <b>Family</b><br><b>Apollon® 21</b>  | <b>Order number: 51MQ11W72M14</b><br><b>EAN: 4058352928080</b>  | <b>LP number</b><br><b>59548_9</b>               |
|  | <b>Version</b><br>recessed luminaire for lay-in mounting, square M625, wide distribution, adjustable color temperature: 3000 K   4000 K, UGR≤19 (L65≤3000cd/m²) | <b>serial documentation</b><br><b>29.01.2024</b> |
| <b>Lamps</b><br>LED 4000 K   CRI ≥ 80  |   |  |
| <b>Controlgear</b><br>ECG  |   |  |
| <b>Setting</b><br>factory setting  |   |  |
| <b>Rated values</b><br>Net luminous flux = 4200 lm<br>Power consumption = 24.2 W<br>Luminous efficacy = 173.6 lm/W |   |  |

**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

## Photometric test report

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

## Photometric test report

|                              |  |                             |
|------------------------------|--|-----------------------------|
| <b>Family</b><br>Apollon® 21 | <b>Order number: 51MQ11W72M14</b><br><b>EAN: 4058352928080</b> | <b>LP number</b><br>59548_9 |
|------------------------------|--|-----------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <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                  | 15.8 | 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>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 554</b> | <b>B = 554</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°      | 45°      | 4778.7                         | 4726.4                      | 4675.6                      | 4659.9                      | 4647.5                      | 4610.2                      | 4570.5      |  |
| 50°      | 50°      | 3970.3                         | 3784.5                      | 3598.6                      | 3740.8                      | 3883.0                      | 3680.6                      | 3478.3      |  |
| 55°      | 55°      | 3327.5                         | 3024.3                      | 2721.2                      | 3041.4                      | 3361.5                      | 2992.4                      | 2623.3      |  |
| 60°      | 60°      | 2858.8                         | 2502.9                      | 2147.0                      | 2550.5                      | 2953.9                      | 2542.0                      | 2130.1      |  |
| 65°      | 65°      | 2636.9                         | 2231.8                      | 1826.6                      | 2241.4                      | 2656.2                      | 2286.1                      | 1916.1      |  |
| 70°      | 70°      | 2577.0                         | 2235.6                      | 1894.2                      | 2171.6                      | 2449.0                      | 2233.4                      | 2017.7      |  |
| 75°      | 75°      | 2462.7                         | 2366.8                      | 2265.8                      | 2264.7                      | 2263.3                      | 2235.8                      | 2208.3      |  |
| 80°      | 80°      | 2309.8                         | 2335.5                      | 2361.2                      | 2350.9                      | 2340.7                      | 2237.2                      | 2141.9      |  |
| 85°      | 85°      | 2376.1                         | 2180.7                      | 1985.6                      | 2275.3                      | 2565.0                      | 2303.2                      | 2041.5      |  |

**Photometric test report**

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



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

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

