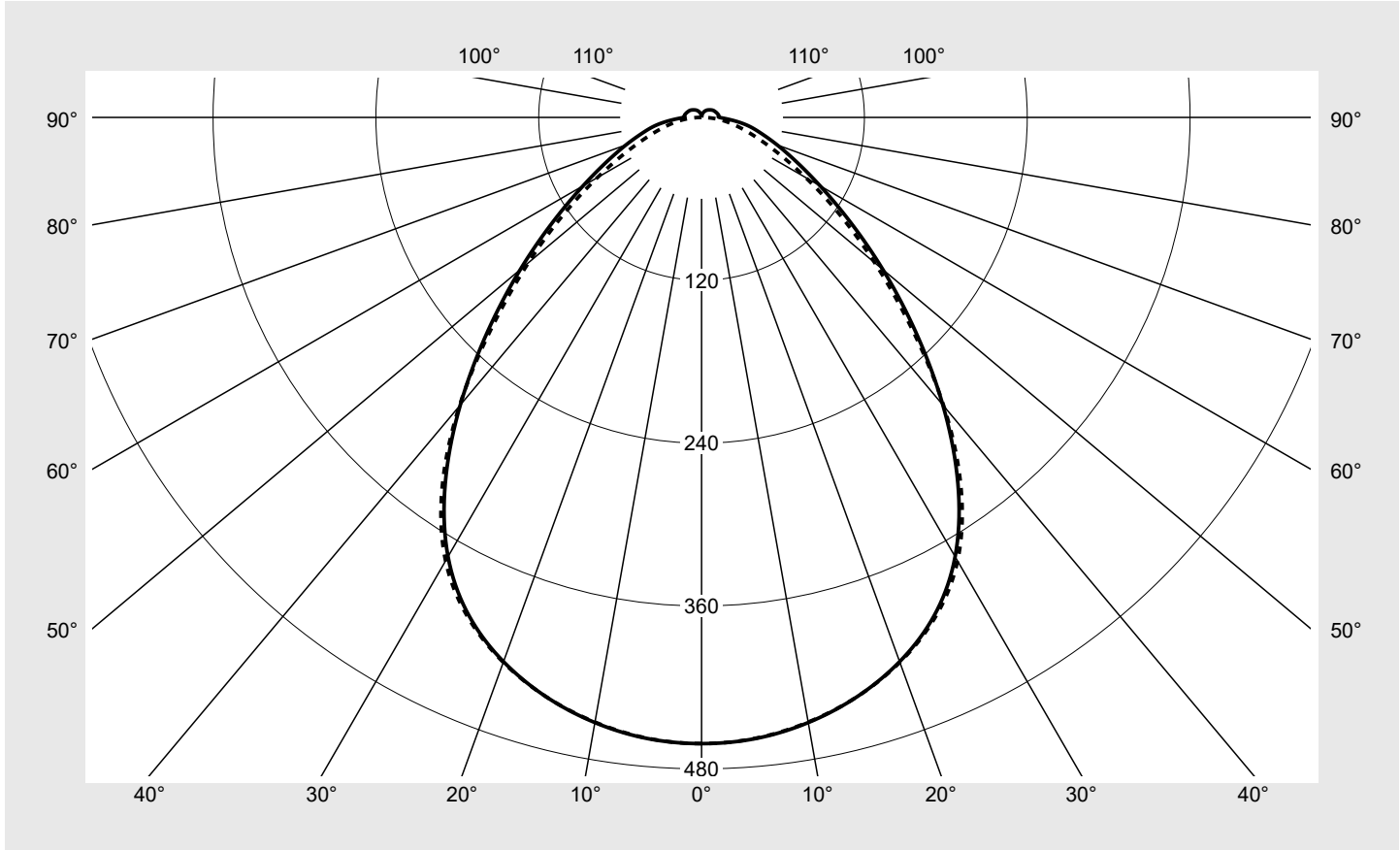


# Photometric test report

|  |  |   |
|--|--|---|
| <b>Family</b><br><b>Apollon® 31 Surface</b>                                      | <b>Order number: 51MP25WM2441EA</b><br><b>EAN: 4069025077967</b>   | <b>LP number</b><br><b>59344_62</b>   |
|  | <b>Version</b> surface-mounted and suspended luminaire, microprismatic optics, wide distribution, at factory setting<br><br><b>Lamps</b> LED 4000 K   CRI ≥ 80<br><br><b>Controlgear</b> ECG Multilumen<br><br><b>Rated values</b> Net luminous flux = 3800 lm<br>Power consumption = 27.0 W<br>Luminous efficacy = 140.7 lm/W | <b>serial documentation</b><br><b>20.03.2024</b><br><br> |

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 461 cd/klm**



| Classifications |                                   |
|-----------------|-----------------------------------|
| DIN 5040        | A 5 1                             |
| CIE             | N1=61 N2=87 N3=97<br>N4=97 N5=100 |

| Luminaire light output ratios |        |
|-------------------------------|--------|
| $\eta_{LB}$                   | 100.0% |
| $\phi_u$                      | 96.9%  |
| $\phi_o$                      | 3.1%   |

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

## Photometric test report

|   |  |                                     |
|---|--|-------------------------------------|
| <b>Family</b><br><b>Apollon® 31 Surface</b>     | <b>Order number: 51MP25WM2441EA</b><br><b>EAN: 4069025077967</b> | <b>LP number</b><br><b>59344_62</b> |
| <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°                           | 461.4      | 461.4                | 461.4                | 461.4                | 461.4                | 461.4                | 461.4                   | 2.8      | 2.8               |
| 5°                           | 459.4      | 459.1                | 459.2                | 459.1                | 459.1                | 458.9                | 459.2                   | 21.9     | 24.7              |
| 10°                          | 452.8      | 452.3                | 452.6                | 452.2                | 452.5                | 452.2                | 452.4                   | 43.1     | 67.8              |
| 15°                          | 442.1      | 441.3                | 442.0                | 441.6                | 442.2                | 441.7                | 442.0                   | 62.7     | 130.4             |
| 20°                          | 426.8      | 425.8                | 426.8                | 426.4                | 427.3                | 426.7                | 427.3                   | 80.0     | 210.4             |
| 25°                          | 405.3      | 404.1                | 405.7                | 405.3                | 406.7                | 406.0                | 406.9                   | 94.0     | 304.4             |
| 30°                          | 373.7      | 372.1                | 374.7                | 374.3                | 376.6                | 375.8                | 377.3                   | 102.7    | 407.1             |
| 35°                          | 329.4      | 327.4                | 330.7                | 330.2                | 332.9                | 331.2                | 333.4                   | 104.0    | 511.1             |
| 40°                          | 276.6      | 274.1                | 276.8                | 275.9                | 278.9                | 276.1                | 277.7                   | 97.4     | 608.5             |
| 45°                          | 222.9      | 219.6                | 220.9                | 219.3                | 222.4                | 217.7                | 218.2                   | 85.3     | 693.8             |
| 50°                          | 174.4      | 171.2                | 171.4                | 169.7                | 171.1                | 166.2                | 166.5                   | 71.4     | 765.2             |
| 55°                          | 133.1      | 129.8                | 129.4                | 127.3                | 127.2                | 122.9                | 123.6                   | 57.2     | 822.4             |
| 60°                          | 100.8      | 96.8                 | 95.6                 | 92.8                 | 92.4                 | 88.6                 | 88.7                    | 44.4     | 866.8             |
| 65°                          | 76.9       | 72.2                 | 70.3                 | 66.6                 | 66.9                 | 62.9                 | 62.1                    | 33.8     | 900.6             |
| 70°                          | 59.3       | 54.7                 | 52.5                 | 48.1                 | 48.7                 | 44.3                 | 43.1                    | 25.7     | 926.3             |
| 75°                          | 45.5       | 41.8                 | 39.8                 | 34.7                 | 34.7                 | 30.6                 | 29.6                    | 19.3     | 945.7             |
| 80°                          | 34.6       | 31.6                 | 29.4                 | 23.8                 | 22.7                 | 19.7                 | 19.2                    | 13.9     | 959.5             |
| 85°                          | 22.2       | 20.2                 | 18.0                 | 13.5                 | 12.3                 | 10.0                 | 9.8                     | 8.2      | 967.7             |
| 90°                          | 13.3       | 11.8                 | 8.8                  | 5.0                  | 3.4                  | 2.0                  | 1.4                     | 3.5      | 971.2             |
| 95°                          | 12.6       | 11.5                 | 8.3                  | 4.7                  | 2.9                  | 1.3                  | 1.0                     | 3.2      | 974.5             |
| 100°                         | 12.4       | 11.4                 | 8.1                  | 4.6                  | 2.9                  | 1.5                  | 0.9                     | 3.2      | 977.6             |
| 105°                         | 11.8       | 10.9                 | 7.8                  | 4.6                  | 2.9                  | 1.5                  | 0.8                     | 3.0      | 980.6             |
| 110°                         | 11.2       | 10.3                 | 7.6                  | 4.6                  | 2.9                  | 1.5                  | 0.8                     | 2.8      | 983.4             |
| 115°                         | 10.7       | 9.8                  | 7.6                  | 4.9                  | 2.9                  | 1.5                  | 0.8                     | 2.7      | 986.1             |
| 120°                         | 10.1       | 9.4                  | 7.4                  | 5.0                  | 2.9                  | 1.5                  | 0.7                     | 2.5      | 988.6             |
| 125°                         | 9.4        | 8.7                  | 7.1                  | 4.9                  | 3.0                  | 1.5                  | 0.7                     | 2.3      | 990.9             |
| 130°                         | 8.6        | 8.0                  | 6.6                  | 4.9                  | 3.0                  | 1.5                  | 0.7                     | 2.0      | 992.9             |
| 135°                         | 7.8        | 7.3                  | 6.3                  | 4.7                  | 2.9                  | 1.4                  | 0.6                     | 1.7      | 994.6             |
| 140°                         | 7.1        | 6.7                  | 5.8                  | 4.4                  | 2.8                  | 1.4                  | 0.7                     | 1.5      | 996.1             |
| 145°                         | 6.4        | 6.1                  | 5.2                  | 4.0                  | 2.7                  | 1.5                  | 0.8                     | 1.2      | 997.3             |
| 150°                         | 5.6        | 5.3                  | 4.6                  | 3.6                  | 2.5                  | 1.5                  | 1.0                     | 1.0      | 998.2             |
| 155°                         | 4.8        | 4.5                  | 4.0                  | 3.2                  | 2.2                  | 1.5                  | 1.1                     | 0.7      | 998.9             |
| 160°                         | 3.9        | 3.7                  | 3.3                  | 2.6                  | 1.9                  | 1.5                  | 1.2                     | 0.5      | 999.4             |
| 165°                         | 3.1        | 2.9                  | 2.7                  | 2.2                  | 1.8                  | 1.5                  | 1.3                     | 0.3      | 999.7             |
| 170°                         | 2.3        | 2.3                  | 2.1                  | 1.8                  | 1.6                  | 1.5                  | 1.4                     | 0.2      | 999.9             |
| 175°                         | 1.8        | 1.7                  | 1.6                  | 1.5                  | 1.5                  | 1.5                  | 1.4                     | 0.1      | 1000.0            |
| 180°                         | 1.4        | 1.4                  | 1.4                  | 1.4                  | 1.4                  | 1.4                  | 1.4                     | 0.0      | 1000.0            |

## Photometric test report

|                                      |  |                              |
|--------------------------------------|--|------------------------------|
| Family<br><b>Apollon® 31 Surface</b> | Order number: <b>51MP25WM2441EA</b><br>EAN: <b>4069025077967</b> | LP number<br><b>59344_62</b> |
|--------------------------------------|--|------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <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                  | 16.0 | 17.5 | 16.3 | 17.8 | 18.1               | 15.9 | 17.4 | 16.2 | 17.7 | 18.0 |
|                              | 3H                  | 16.9 | 18.3 | 17.3 | 18.6 | 19.0               | 16.6 | 18.0 | 17.0 | 18.3 | 18.7 |
|                              | 4H                  | 17.4 | 18.7 | 17.8 | 19.1 | 19.4               | 16.9 | 18.2 | 17.3 | 18.5 | 18.9 |
|                              | 6H                  | 17.9 | 19.1 | 18.3 | 19.5 | 19.9               | 17.1 | 18.3 | 17.6 | 18.7 | 19.1 |
|                              | 8H                  | 18.2 | 19.3 | 18.6 | 19.7 | 20.1               | 17.3 | 18.4 | 17.7 | 18.8 | 19.2 |
|                              | 12H                 | 18.4 | 19.5 | 18.9 | 19.8 | 20.3               | 17.4 | 18.4 | 17.8 | 18.8 | 19.2 |
| 4H                           | 2H                  | 16.3 | 17.6 | 16.7 | 18.0 | 18.4               | 16.3 | 17.6 | 16.7 | 17.9 | 18.3 |
|                              | 3H                  | 17.5 | 18.6 | 17.9 | 19.0 | 19.4               | 17.2 | 18.3 | 17.6 | 18.7 | 19.1 |
|                              | 4H                  | 18.1 | 19.1 | 18.5 | 19.5 | 19.9               | 17.6 | 18.6 | 18.0 | 19.0 | 19.4 |
|                              | 6H                  | 18.8 | 19.6 | 19.2 | 20.1 | 20.5               | 18.0 | 18.8 | 18.4 | 19.3 | 19.7 |
|                              | 8H                  | 19.1 | 19.9 | 19.6 | 20.3 | 20.8               | 18.1 | 18.9 | 18.6 | 19.3 | 19.8 |
|                              | 12H                 | 19.4 | 20.1 | 19.9 | 20.5 | 21.0               | 18.3 | 19.0 | 18.8 | 19.4 | 19.9 |
| 8H                           | 4H                  | 18.3 | 19.1 | 18.8 | 19.5 | 20.0               | 17.8 | 18.6 | 18.3 | 19.1 | 19.5 |
|                              | 6H                  | 19.1 | 19.8 | 19.6 | 20.2 | 20.7               | 18.3 | 19.0 | 18.8 | 19.4 | 19.9 |
|                              | 8H                  | 19.5 | 20.1 | 20.0 | 20.6 | 21.1               | 18.5 | 19.1 | 19.0 | 19.6 | 20.1 |
|                              | 12H                 | 20.0 | 20.4 | 20.5 | 20.9 | 21.5               | 18.8 | 19.2 | 19.3 | 19.7 | 20.3 |
| 12H                          | 4H                  | 18.3 | 19.0 | 18.8 | 19.5 | 20.0               | 17.9 | 18.6 | 18.4 | 19.0 | 19.5 |
|                              | 6H                  | 19.2 | 19.7 | 19.7 | 20.2 | 20.7               | 18.4 | 19.0 | 18.9 | 19.5 | 20.0 |
|                              | 8H                  | 19.6 | 20.1 | 20.1 | 20.6 | 21.1               | 18.7 | 19.2 | 19.2 | 19.7 | 20.2 |

|                        |   |                                      |                 |                   |                     |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 1236</b> | <b>H(C0) = 13</b> | <b>H(C180) = 13</b> |
|                        |   |                                      | <b>B = 200</b>  | <b>H(C90) = 0</b> | <b>H(C270) = 0</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°      |          | 4549.6                         | 4491.6                      | 4545.5                      | 4558.8                      | 4683.0                      | 4654.8                      | 4743.5      |  |  |
| 50°      |          | 3871.5                         | 3809.2                      | 3840.3                      | 3847.5                      | 3938.4                      | 3897.2                      | 3982.8      |  |  |
| 55°      |          | 3264.1                         | 3191.3                      | 3208.7                      | 3200.9                      | 3256.6                      | 3217.6                      | 3311.4      |  |  |
| 60°      |          | 2786.6                         | 2685.1                      | 2677.5                      | 2643.8                      | 2688.7                      | 2648.0                      | 2725.6      |  |  |
| 65°      |          | 2455.8                         | 2314.7                      | 2280.3                      | 2206.5                      | 2275.0                      | 2207.7                      | 2259.8      |  |  |
| 70°      |          | 2261.1                         | 2095.0                      | 2043.3                      | 1918.8                      | 2009.7                      | 1904.7                      | 1937.0      |  |  |
| 75°      |          | 2175.6                         | 2011.2                      | 1955.5                      | 1757.7                      | 1837.1                      | 1711.5                      | 1756.6      |  |  |
| 80°      |          | 2236.0                         | 2065.2                      | 1973.4                      | 1669.5                      | 1696.7                      | 1592.5                      | 1697.7      |  |  |
| 85°      |          | 2241.6                         | 2069.7                      | 1930.3                      | 1563.7                      | 1581.3                      | 1484.8                      | 1730.2      |  |  |

**Photometric test report**

|   |  |                                     |
|---|--|-------------------------------------|
| <b>Family</b><br><b>Apollon® 31 Surface</b> | <b>Order number: 51MP25WM2441EA</b><br><b>EAN: 4069025077967</b> | <b>LP number</b><br><b>59344_62</b> |
|---|--|-------------------------------------|

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

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

