

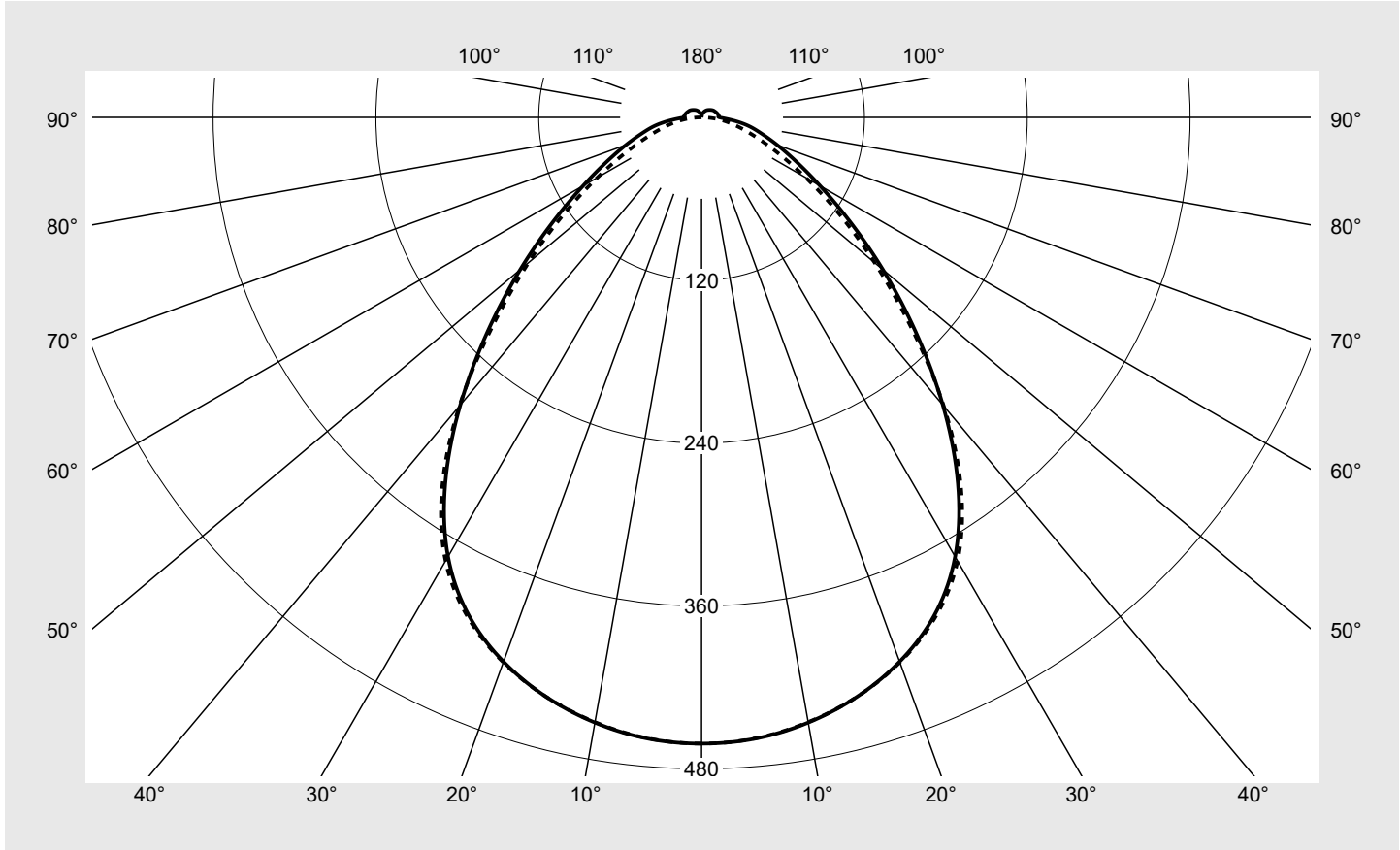


Photometric test report

| | | |
|--|--|---|
| Family Apollon® 31 Surface | Order number: 51MP25WD2441WB EAN: 4069025079787 | LP number 59344_72 |
|  | Version surface-mounted and suspended luminaire, microprismatic optics, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 3800 lm Power consumption = 28.0 W Luminous efficacy = 135.7 lm/W | serial documentation 20.03.2024  |

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 N4=97 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 96.9% |
| ϕ_o | 3.1% |

Measurement conditions
DIN EN 13032 and DIN 5032

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| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 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 |

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| | | | | | | | | | | |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|
| UGR-Table | Standard room | siteco | | | | | | | | |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|

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

| | | | | | |
|-----------------|---------------------------------|-------------------------------|---------------------|--------------------------|-----------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1236 B = 200 | H(C0) = 13 H(C90) = 0 | H(C180) = 13 H(C270) = 0 |
|-----------------|---------------------------------|-------------------------------|---------------------|--------------------------|-----------------------------|

| C-planes | γ | Luminance in cd/m ² | | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 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 | |

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

