

## Photometric test report

**Family**  
**Apollon® 41**

**Order number: 51MH12W72622**  
**EAN: 4058352450321**

**LP number**  
**59038\_2**

**serial**  
**documentation**  
**08.04.2021**

**siteco**

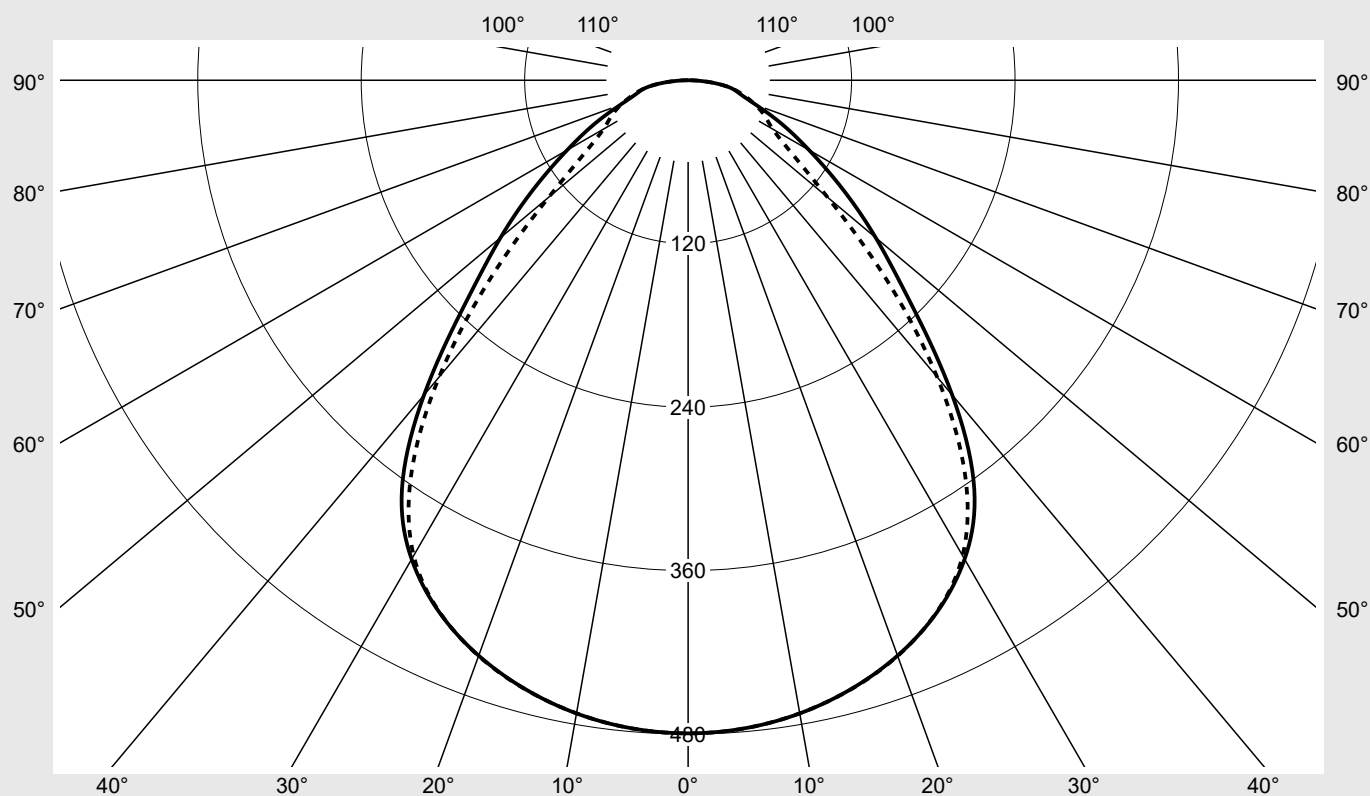
**Version** micro prismatic cover, wide distribution,  
UGR≤19 (L65≤3000cd/m²)  
**Lamps** LED 6500 K | CRI ≥ 80  
**Controlgear** ECG  
**Rated values** Net luminous flux = 3700 lm  
Power consumption = 35.0 W  
Luminous efficacy = 105.7 lm/W

**Luminous intensity in cd/klm**

**C180-0**

**C270-90**

**Imax: 479 cd/klm**



### Classifications

DIN 5040 A 5 0  
CIE N1=63 N2=87 N3=97  
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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|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Apollon® 41                    | Order number: 51MH12W72622<br>EAN: 4058352450321 | LP number<br>59038_2       |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
|                                          |                                                  | siteco                     |

| C-<br>planes | 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° | Phi-zone                | Total<br>Phi-zone |
|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|-------------------------|-------------------|
| γ            | Luminous intensity in cd/klm |                             |                             |                             |                             |                             |             | Luminous flux in lm/klm |                   |
| 0°           | 479.5                        | 479.5                       | 479.5                       | 479.5                       | 479.5                       | 479.5                       | 479.5       | 2.9                     | 2.9               |
| 5°           | 477.5                        | 477.5                       | 477.5                       | 477.5                       | 477.4                       | 477.5                       | 477.6       | 22.8                    | 25.7              |
| 10°          | 472.0                        | 472.0                       | 471.9                       | 471.9                       | 471.8                       | 471.9                       | 471.9       | 44.9                    | 70.6              |
| 15°          | 462.6                        | 462.7                       | 462.7                       | 462.7                       | 462.6                       | 462.7                       | 462.8       | 65.6                    | 136.2             |
| 20°          | 449.5                        | 449.7                       | 449.8                       | 449.7                       | 449.5                       | 449.6                       | 449.7       | 84.3                    | 220.5             |
| 25°          | 431.5                        | 431.5                       | 431.6                       | 431.4                       | 431.3                       | 431.2                       | 431.2       | 99.9                    | 320.5             |
| 30°          | 406.0                        | 405.2                       | 404.5                       | 404.7                       | 404.8                       | 403.9                       | 403.0       | 110.9                   | 431.4             |
| 35°          | 366.3                        | 363.2                       | 360.1                       | 360.8                       | 361.5                       | 358.1                       | 354.7       | 113.4                   | 544.8             |
| 40°          | 301.6                        | 296.4                       | 291.3                       | 292.5                       | 293.7                       | 289.0                       | 284.4       | 103.1                   | 647.9             |
| 45°          | 230.9                        | 219.8                       | 208.8                       | 217.6                       | 226.5                       | 215.4                       | 204.4       | 84.3                    | 732.2             |
| 50°          | 179.8                        | 157.7                       | 135.5                       | 157.1                       | 178.6                       | 156.1                       | 133.5       | 65.9                    | 798.1             |
| 55°          | 137.5                        | 115.3                       | 93.1                        | 115.6                       | 138.1                       | 115.1                       | 92.1        | 51.8                    | 849.9             |
| 60°          | 102.5                        | 86.5                        | 70.4                        | 86.2                        | 102.0                       | 86.9                        | 71.8        | 41.1                    | 891.0             |
| 65°          | 75.8                         | 68.6                        | 61.4                        | 67.1                        | 72.7                        | 67.4                        | 62.2        | 33.6                    | 924.6             |
| 70°          | 53.2                         | 53.2                        | 53.2                        | 52.8                        | 52.4                        | 52.4                        | 52.4        | 27.2                    | 951.8             |
| 75°          | 39.9                         | 40.9                        | 42.0                        | 41.9                        | 41.9                        | 42.0                        | 42.1        | 22.0                    | 973.8             |
| 80°          | 31.3                         | 30.7                        | 30.2                        | 31.0                        | 31.8                        | 31.5                        | 31.3        | 16.8                    | 990.6             |
| 85°          | 15.5                         | 15.3                        | 15.1                        | 15.4                        | 15.7                        | 15.9                        | 16.0        | 8.5                     | 999.1             |
| 90°          | 1.3                          | 1.4                         | 1.4                         | 1.7                         | 1.9                         | 2.0                         | 2.1         | 0.9                     | 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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|                       |                                                  |                      |
|-----------------------|--------------------------------------------------|----------------------|
| Family<br>Apollon® 41 | Order number: 51MH12W72622<br>EAN: 4058352450321 | LP number<br>59038_2 |
| 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                  | 14.9 | 16.4 | 15.2 | 16.7 | 17.1               | 14.9 | 16.5 | 15.3 | 16.8 | 17.1 |
|                              | 3H                  | 15.9 | 17.3 | 16.3 | 17.6 | 18.0               | 15.9 | 17.3 | 16.3 | 17.6 | 18.0 |
|                              | 4H                  | 16.4 | 17.7 | 16.8 | 18.1 | 18.5               | 16.4 | 17.7 | 16.8 | 18.1 | 18.5 |
|                              | 6H                  | 17.0 | 18.2 | 17.4 | 18.6 | 19.0               | 17.0 | 18.2 | 17.5 | 18.6 | 19.0 |
|                              | 8H                  | 17.3 | 18.4 | 17.8 | 18.8 | 19.2               | 17.4 | 18.4 | 17.8 | 18.8 | 19.2 |
|                              | 12H                 | 17.5 | 18.5 | 18.0 | 18.9 | 19.4               | 17.6 | 18.6 | 18.0 | 19.0 | 19.4 |
| 4H                           | 2H                  | 15.3 | 16.6 | 15.7 | 16.9 | 17.3               | 15.3 | 16.6 | 15.7 | 17.0 | 17.3 |
|                              | 3H                  | 16.6 | 17.7 | 17.0 | 18.1 | 18.5               | 16.5 | 17.6 | 17.0 | 18.0 | 18.4 |
|                              | 4H                  | 17.3 | 18.2 | 17.7 | 18.6 | 19.1               | 17.3 | 18.2 | 17.7 | 18.6 | 19.1 |
|                              | 6H                  | 18.0 | 18.9 | 18.5 | 19.3 | 19.8               | 18.1 | 18.9 | 18.5 | 19.3 | 19.8 |
|                              | 8H                  | 18.4 | 19.1 | 18.8 | 19.6 | 20.1               | 18.4 | 19.2 | 18.9 | 19.6 | 20.1 |
|                              | 12H                 | 18.7 | 19.3 | 19.1 | 19.8 | 20.3               | 18.7 | 19.4 | 19.2 | 19.8 | 20.3 |
| 8H                           | 4H                  | 17.6 | 18.4 | 18.1 | 18.8 | 19.3               | 17.6 | 18.4 | 18.1 | 18.8 | 19.3 |
|                              | 6H                  | 18.5 | 19.2 | 19.0 | 19.6 | 20.1               | 18.6 | 19.2 | 19.1 | 19.7 | 20.2 |
|                              | 8H                  | 19.0 | 19.5 | 19.5 | 20.0 | 20.5               | 19.0 | 19.6 | 19.5 | 20.1 | 20.6 |
|                              | 12H                 | 19.4 | 19.8 | 19.9 | 20.3 | 20.9               | 19.4 | 19.9 | 20.0 | 20.4 | 20.9 |
| 12H                          | 4H                  | 17.7 | 18.4 | 18.2 | 18.8 | 19.3               | 17.7 | 18.3 | 18.2 | 18.8 | 19.3 |
|                              | 6H                  | 18.7 | 19.2 | 19.2 | 19.7 | 20.2               | 18.7 | 19.3 | 19.2 | 19.7 | 20.3 |
|                              | 8H                  | 19.2 | 19.6 | 19.7 | 20.1 | 20.7               | 19.2 | 19.7 | 19.7 | 20.2 | 20.7 |

| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | L = 555<br>B = 555          |             |
|-----------------|--------------------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-------------|
| C-planes        | 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° |
| $\gamma$        | Luminance in cd/m² |                                 |                             |                               |                             |                             |             |
| 45°             | 3922.2             | 3734.4                          | 3546.3                      | 3696.8                        | 3847.3                      | 3659.6                      | 3471.9      |
| 50°             | 3360.0             | 2946.4                          | 2533.1                      | 2935.4                        | 3337.9                      | 2916.9                      | 2495.7      |
| 55°             | 2880.4             | 2414.6                          | 1948.9                      | 2420.7                        | 2892.5                      | 2410.7                      | 1928.8      |
| 60°             | 2463.4             | 2077.6                          | 1691.8                      | 2070.6                        | 2449.5                      | 2087.4                      | 1725.4      |
| 65°             | 2155.3             | 1950.7                          | 1745.7                      | 1906.0                        | 2066.3                      | 1916.8                      | 1767.0      |
| 70°             | 1868.8             | 1867.7                          | 1866.7                      | 1852.6                        | 1838.9                      | 1839.6                      | 1840.7      |
| 75°             | 1851.3             | 1899.6                          | 1947.4                      | 1946.5                        | 1945.1                      | 1948.8                      | 1952.0      |
| 80°             | 2164.5             | 2125.0                          | 2085.6                      | 2141.6                        | 2197.0                      | 2179.7                      | 2162.4      |
| 85°             | 2133.5             | 2108.7                          | 2083.9                      | 2122.5                        | 2161.1                      | 2185.9                      | 2210.7      |

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Order number: 51MH12W72622  
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LP number  
59038\_2

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

