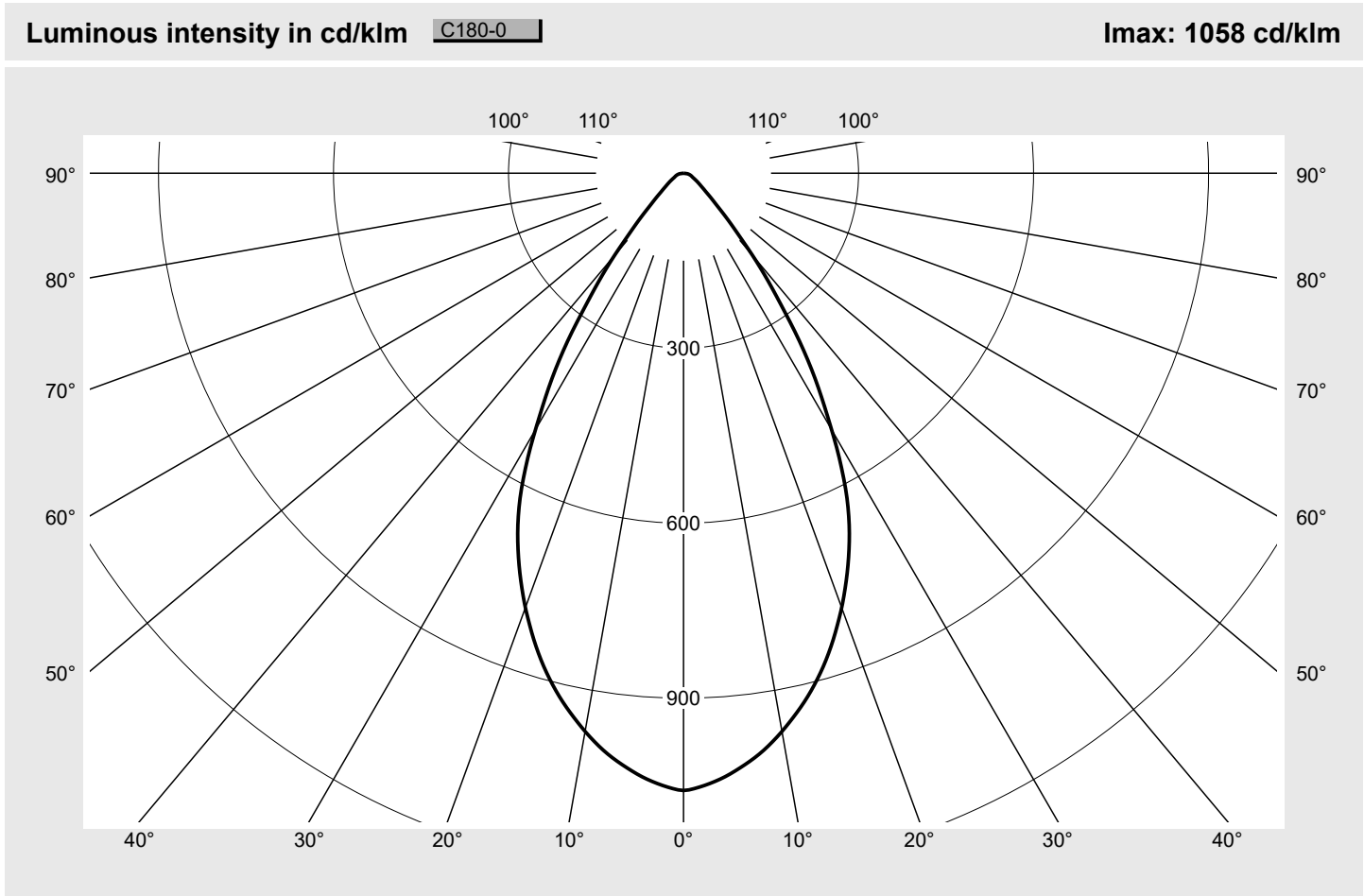


Photometric test report

|                                                                                   |                                                               |                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Family</b><br><b>Lunis 21</b>                                                  | <b>Order number: 51DB18ED91C</b><br><b>EAN: 4069025013064</b> | <b>LP number</b><br><b>59683_5</b>                                                                                                                                        |
|  | <b>Version</b>                                                | recessed luminaire, Combined lens and reflector optics, reflector, white, rotationally symmetrical wide distribution, adjustable color temperature: 3000K   4000K   6500K |
|                                                                                   | <b>Lamps</b>                                                  | LED 4000 K   CRI ≥ 80                                                                                                                                                     |
|                                                                                   | <b>Controlgear</b>                                            | ECG Multilumen                                                                                                                                                            |
|                                                                                   | <b>Setting</b>                                                | factory setting: DIP-Step=5, colour temperature 4000K                                                                                                                     |
|                                                                                   | <b>Rated values</b>                                           | Net luminous flux = 2100 lm<br>Power consumption = 12.2 W<br>Luminous efficacy = 172.1 lm/W                                                                               |
|                                                                                   |                                                               | <b>serial documentation</b><br>27.09.2024                                                                                                                                 |
|                                                                                   |                                                               | <b>siteco</b>                                                                                                                                                             |



| Classifications |                   | Luminaire light output ratios |        |
|-----------------|-------------------|-------------------------------|--------|
| DIN 5040        | A 7 0             | $\eta_{LB}$                   | 100.0% |
| CIE             | N1=87 N2=97 N3=99 | $\phi_u$                      | 100.0% |
|                 | N4=100 N5=100     | $\phi_o$                      | 0.0%   |

| Measurement conditions    |
|---------------------------|
| DIN EN 13032 and DIN 5032 |

Photometric test report

|                                          |                                                 |                            |
|------------------------------------------|-------------------------------------------------|----------------------------|
| Family<br>Lunis 21                       | Order number: 51DB18ED91C<br>EAN: 4069025013064 | LP number<br>59683_5       |
| Table of values for luminous intensities |                                                 | Maximum luminous intensity |
|                                          |                                                 | siteco                     |

| C-planes | 0°                           | Phi-zone | Total<br>Phi-zone       |
|----------|------------------------------|----------|-------------------------|
| γ        | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 0°       | 1058.2                       | 0.3      | 0.3                     |
| 1°       | 1055.1                       | 2.0      | 2.3                     |
| 2°       | 1050.0                       | 4.0      | 6.3                     |
| 3°       | 1043.8                       | 6.0      | 12.3                    |
| 4°       | 1036.6                       | 7.9      | 20.2                    |
| 5°       | 1028.0                       | 9.8      | 30.0                    |
| 6°       | 1018.7                       | 11.7     | 41.7                    |
| 7°       | 1008.8                       | 13.5     | 55.2                    |
| 8°       | 997.7                        | 15.2     | 70.4                    |
| 9°       | 985.1                        | 16.9     | 87.3                    |
| 10°      | 971.8                        | 18.5     | 105.8                   |
| 11°      | 957.4                        | 20.0     | 125.9                   |
| 12°      | 942.8                        | 21.5     | 147.4                   |
| 13°      | 927.6                        | 22.9     | 170.2                   |
| 14°      | 911.2                        | 24.2     | 194.4                   |
| 15°      | 893.8                        | 25.4     | 219.8                   |
| 16°      | 875.5                        | 26.5     | 246.2                   |
| 17°      | 855.9                        | 27.4     | 273.7                   |
| 18°      | 835.5                        | 28.3     | 302.0                   |
| 19°      | 814.0                        | 29.1     | 331.1                   |
| 20°      | 792.6                        | 29.7     | 360.8                   |
| 21°      | 769.9                        | 30.3     | 391.0                   |
| 22°      | 746.7                        | 30.7     | 421.7                   |
| 23°      | 722.8                        | 31.0     | 452.7                   |
| 24°      | 698.1                        | 31.1     | 483.8                   |
| 25°      | 672.4                        | 31.2     | 515.0                   |
| 26°      | 644.5                        | 31.0     | 546.0                   |
| 27°      | 614.1                        | 30.6     | 576.6                   |
| 28°      | 580.0                        | 29.9     | 606.4                   |
| 29°      | 544.8                        | 29.0     | 635.4                   |
| 30°      | 507.5                        | 27.8     | 663.2                   |
| 31°      | 472.2                        | 26.7     | 689.9                   |
| 32°      | 439.1                        | 25.5     | 715.4                   |
| 33°      | 406.1                        | 24.3     | 739.6                   |
| 34°      | 371.5                        | 22.8     | 762.4                   |
| 35°      | 335.8                        | 21.1     | 783.5                   |
| 36°      | 298.6                        | 19.2     | 802.8                   |
| 37°      | 266.3                        | 17.6     | 820.4                   |
| 38°      | 238.0                        | 16.1     | 836.4                   |
| 39°      | 210.9                        | 14.6     | 851.0                   |
| 40°      | 184.3                        | 13.0     | 864.0                   |
| 41°      | 158.1                        | 11.4     | 875.4                   |
| 42°      | 136.8                        | 10.0     | 885.4                   |
| 43°      | 119.9                        | 9.0      | 894.4                   |
| 44°      | 104.7                        | 8.0      | 902.3                   |
| 45°      | 90.9                         | 7.0      | 909.4                   |
| 46°      | 79.3                         | 6.3      | 915.6                   |

| C-planes | 0°                           | Phi-zone | Total<br>Phi-zone       |
|----------|------------------------------|----------|-------------------------|
| γ        | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 47°      | 70.8                         | 5.7      | 921.3                   |
| 48°      | 63.6                         | 5.2      | 926.5                   |
| 49°      | 57.1                         | 4.7      | 931.2                   |
| 50°      | 51.2                         | 4.3      | 935.5                   |
| 51°      | 47.0                         | 4.0      | 939.5                   |
| 52°      | 43.3                         | 3.7      | 943.3                   |
| 53°      | 39.7                         | 3.5      | 946.8                   |
| 54°      | 36.8                         | 3.3      | 950.0                   |
| 55°      | 34.5                         | 3.1      | 953.1                   |
| 56°      | 32.2                         | 2.9      | 956.0                   |
| 57°      | 30.1                         | 2.8      | 958.8                   |
| 58°      | 28.3                         | 2.6      | 961.4                   |
| 59°      | 26.4                         | 2.5      | 963.9                   |
| 60°      | 24.7                         | 2.3      | 966.3                   |
| 61°      | 23.1                         | 2.2      | 968.5                   |
| 62°      | 21.6                         | 2.1      | 970.6                   |
| 63°      | 20.3                         | 2.0      | 972.6                   |
| 64°      | 19.0                         | 1.9      | 974.4                   |
| 65°      | 17.9                         | 1.8      | 976.2                   |
| 66°      | 17.0                         | 1.7      | 977.9                   |
| 67°      | 16.3                         | 1.6      | 979.6                   |
| 68°      | 15.8                         | 1.6      | 981.2                   |
| 69°      | 15.1                         | 1.6      | 982.7                   |
| 70°      | 14.6                         | 1.5      | 984.2                   |
| 71°      | 14.0                         | 1.4      | 985.7                   |
| 72°      | 13.4                         | 1.4      | 987.1                   |
| 73°      | 12.8                         | 1.3      | 988.4                   |
| 74°      | 12.1                         | 1.3      | 989.7                   |
| 75°      | 11.5                         | 1.2      | 990.9                   |
| 76°      | 10.9                         | 1.2      | 992.1                   |
| 77°      | 10.2                         | 1.1      | 993.2                   |
| 78°      | 9.6                          | 1.0      | 994.2                   |
| 79°      | 8.9                          | 1.0      | 995.1                   |
| 80°      | 8.2                          | 0.9      | 996.0                   |
| 81°      | 7.4                          | 0.8      | 996.8                   |
| 82°      | 6.5                          | 0.7      | 997.5                   |
| 83°      | 5.5                          | 0.6      | 998.1                   |
| 84°      | 4.5                          | 0.5      | 998.6                   |
| 85°      | 3.7                          | 0.4      | 999.0                   |
| 86°      | 3.1                          | 0.3      | 999.4                   |
| 87°      | 2.6                          | 0.3      | 999.6                   |
| 88°      | 2.0                          | 0.2      | 999.9                   |
| 89°      | 1.3                          | 0.1      | 1000.0                  |
| 90°      | 0.0                          | 0.0      | 1000.0                  |
| 180°     | 0.0                          | 0.0      | 1000.0                  |

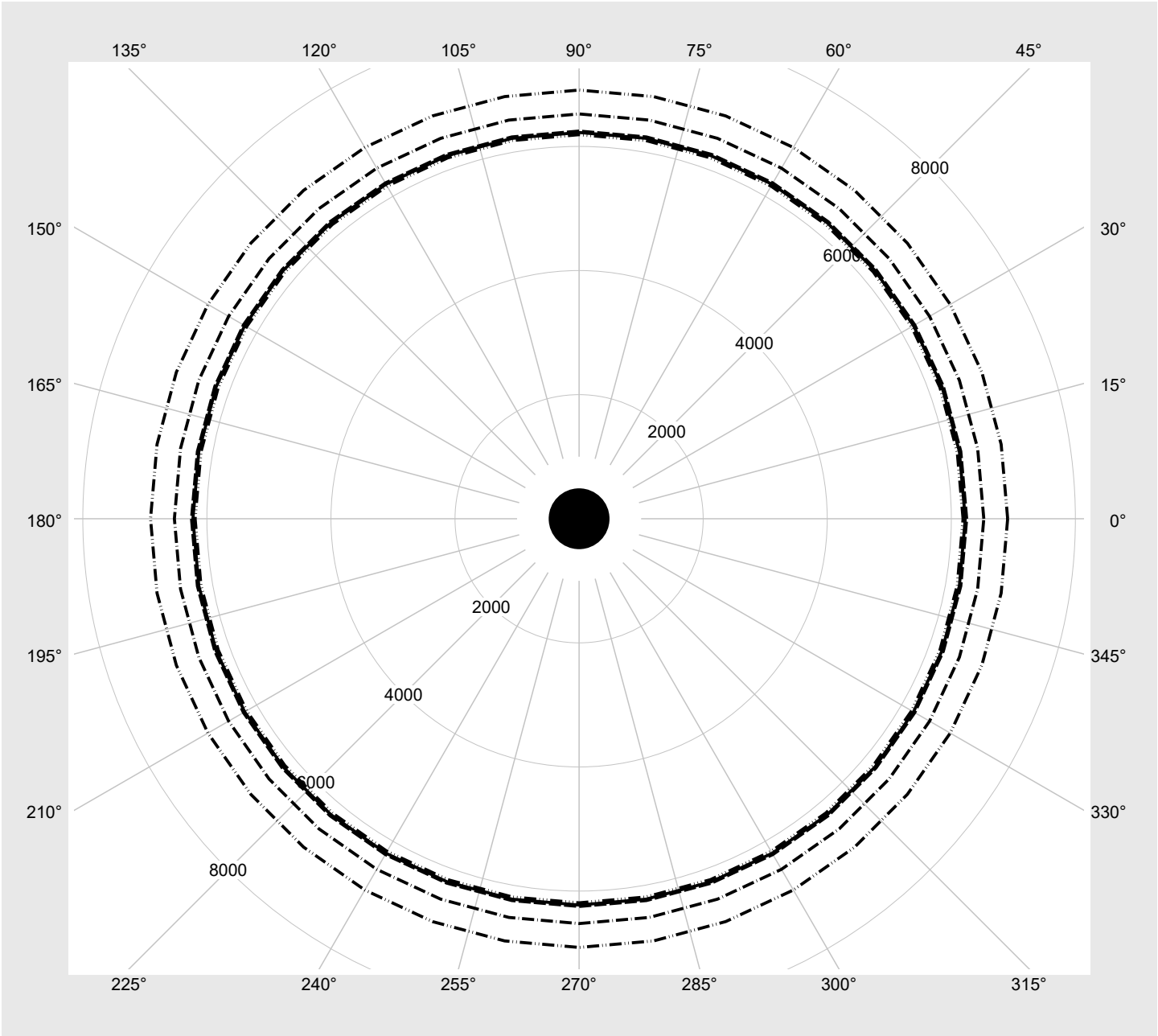
Photometric test report

|                              |     |                     |                                                 |      |      |      |                    |      |      |                      |      |
|------------------------------|-----|---------------------|-------------------------------------------------|------|------|------|--------------------|------|------|----------------------|------|
| Family<br>Lunis 21           |     |                     | Order number: 51DB18ED91C<br>EAN: 4069025013064 |      |      |      |                    |      |      | LP number<br>59683_5 |      |
| 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  | 18.9                | 20.2                                            | 19.3 | 20.5 | 20.8 | 18.9               | 20.2 | 19.3 | 20.5                 | 20.8 |
|                              | 3H  | 19.2                | 20.3                                            | 19.6 | 20.6 | 21.0 | 19.2               | 20.3 | 19.6 | 20.6                 | 21.0 |
|                              | 4H  | 19.4                | 20.4                                            | 19.8 | 20.7 | 21.1 | 19.4               | 20.4 | 19.8 | 20.7                 | 21.1 |
|                              | 6H  | 19.6                | 20.5                                            | 20.0 | 20.9 | 21.3 | 19.6               | 20.5 | 20.0 | 20.9                 | 21.3 |
|                              | 8H  | 19.8                | 20.5                                            | 20.2 | 20.9 | 21.3 | 19.8               | 20.5 | 20.2 | 20.9                 | 21.3 |
|                              | 12H | 19.8                | 20.5                                            | 20.3 | 20.9 | 21.4 | 19.8               | 20.5 | 20.3 | 20.9                 | 21.4 |
| 4H                           | 2H  | 18.9                | 19.9                                            | 19.3 | 20.3 | 20.7 | 18.9               | 19.9 | 19.3 | 20.3                 | 20.7 |
|                              | 3H  | 19.3                | 20.1                                            | 19.7 | 20.5 | 21.0 | 19.3               | 20.1 | 19.7 | 20.5                 | 21.0 |
|                              | 4H  | 19.6                | 20.3                                            | 20.0 | 20.8 | 21.2 | 19.6               | 20.3 | 20.0 | 20.8                 | 21.2 |
|                              | 6H  | 19.9                | 20.6                                            | 20.4 | 21.0 | 21.5 | 19.9               | 20.6 | 20.4 | 21.0                 | 21.5 |
|                              | 8H  | 20.1                | 20.7                                            | 20.6 | 21.1 | 21.6 | 20.1               | 20.7 | 20.6 | 21.1                 | 21.6 |
|                              | 12H | 20.2                | 20.7                                            | 20.7 | 21.2 | 21.7 | 20.2               | 20.7 | 20.7 | 21.2                 | 21.7 |
| 8H                           | 4H  | 19.7                | 20.3                                            | 20.2 | 20.7 | 21.2 | 19.7               | 20.3 | 20.2 | 20.7                 | 21.2 |
|                              | 6H  | 20.1                | 20.6                                            | 20.6 | 21.1 | 21.6 | 20.1               | 20.6 | 20.6 | 21.1                 | 21.6 |
|                              | 8H  | 20.4                | 20.8                                            | 20.9 | 21.3 | 21.8 | 20.4               | 20.8 | 20.9 | 21.3                 | 21.8 |
|                              | 12H | 20.5                | 20.9                                            | 21.1 | 21.4 | 21.9 | 20.5               | 20.9 | 21.1 | 21.4                 | 21.9 |
| 12H                          | 4H  | 19.7                | 20.2                                            | 20.2 | 20.7 | 21.2 | 19.7               | 20.2 | 20.2 | 20.7                 | 21.2 |
|                              | 6H  | 20.2                | 20.6                                            | 20.7 | 21.1 | 21.6 | 20.2               | 20.6 | 20.7 | 21.1                 | 21.6 |
|                              | 8H  | 20.5                | 20.8                                            | 21.0 | 21.3 | 21.8 | 20.5               | 20.8 | 21.0 | 21.3                 | 21.8 |

| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | D = 135 |
|-----------------|--------------------|---------------------------------|-------------------------------|---------|
| C-planes        |                    | 0°                              |                               |         |
| $\gamma$        | Luminance in cd/m² |                                 |                               |         |
| 45°             | 18859.1            |                                 |                               |         |
| 50°             | 11695.8            |                                 |                               |         |
| 55°             | 8815.3             |                                 |                               |         |
| 60°             | 7249.0             |                                 |                               |         |
| 65°             | 6225.0             |                                 |                               |         |
| 70°             | 6248.1             |                                 |                               |         |
| 75°             | 6523.8             |                                 |                               |         |
| 80°             | 6908.5             |                                 |                               |         |
| 85°             | 6189.6             |                                 |                               |         |

Photometric test report

|                           |                                                 |                                                                                             |
|---------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| Family<br>Lunis 21        | Order number: 51DB18ED91C<br>EAN: 4069025013064 | LP number<br>59683_5                                                                        |
| Luminance values in cd/m² |                                                 | siteco                                                                                      |
|                           |                                                 | <div><div>γ 65°</div><div>γ 70°</div><div>γ 75°</div><div>γ 80°</div><div>γ 85°</div></div> |



Photometric test report

|                    |                                                 |                      |
|--------------------|-------------------------------------------------|----------------------|
| Family<br>Lunis 21 | Order number: 51DB18ED91C<br>EAN: 4069025013064 | LP number<br>59683_5 |
| Multilumen Table   | environmental temperature: 25°C                 | siteco               |

| DIP-Step | Switch Setting |     |     |     | Luminous flux<br>[lm] | Power consumption<br>[W] |
|----------|----------------|-----|-----|-----|-----------------------|--------------------------|
|          | 1              | 2   | 3   | 4   |                       |                          |
| 12       | ON             | ON  | OFF | OFF | 4060                  | 25.4                     |
| 11       | ON             | OFF | ON  | ON  | 3640                  | 21.7                     |
| 10       | ON             | OFF | ON  | OFF | 3410                  | 20.3                     |
| 9        | ON             | OFF | OFF | ON  | 3250                  | 19.2                     |
| 8        | ON             | OFF | OFF | OFF | 3020                  | 17.7                     |
| 7        | OFF            | ON  | ON  | ON  | 2640                  | 15.5                     |
| 6        | OFF            | ON  | ON  | OFF | 2360                  | 13.7                     |
| 5        | OFF            | ON  | OFF | ON  | 2100                  | 12.2                     |
| 4        | OFF            | ON  | OFF | OFF | 1800                  | 10.5                     |
| 3        | OFF            | OFF | ON  | ON  | 1670                  | 9.7                      |
| 2        | OFF            | OFF | ON  | OFF | 1400                  | 8.0                      |
| 1        | OFF            | OFF | OFF | ON  | 1070                  | 6.1                      |
| 0        | OFF            | OFF | OFF | OFF | 780                   | 4.4                      |