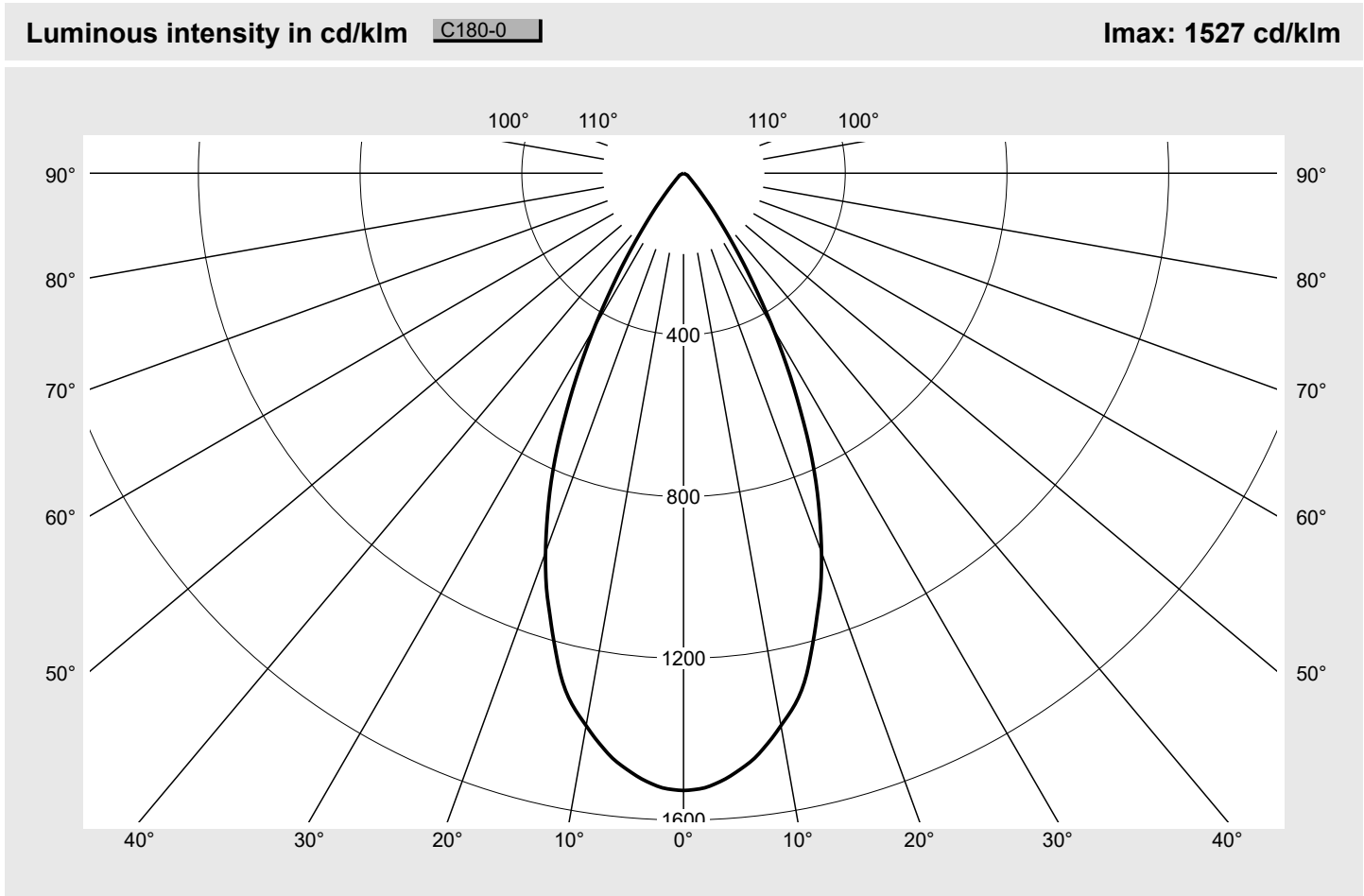


Photometric test report

|                                                                                   |                                                               |                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Family</b><br>Lunis 21                                                         | <b>Order number: 51DB15MC91C</b><br><b>EAN: 4058352047194</b> | <b>LP number</b><br>59674_2                                                                                                                                                                   |
|  | <b>Version</b>                                                | recessed luminaire, Combined lens and reflector optics, reflector, highly specular, rotationally symmetrical medium distribution, adjustable color temperature: 3000K   4000K   6500K, UGR≤19 |
|                                                                                   | <b>Lamps</b>                                                  | LED 4000 K   CRI ≥ 80                                                                                                                                                                         |
|                                                                                   | <b>Controlgear</b>                                            | ECG Multilumen                                                                                                                                                                                |
|                                                                                   | <b>Setting</b>                                                | factory setting: DIP-Step=4, colour temperature 4000K                                                                                                                                         |
|                                                                                   | <b>Rated values</b>                                           | Net luminous flux = 1860 lm<br>Power consumption = 10.6 W<br>Luminous efficacy = 175.5 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=95 N2=99 N3=100 | $\phi_u$                      | 100.0% |
|                 | N4=100 N5=100      | $\phi_o$                      | 0.0%   |

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

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|                                          |                                                 |                            |
|------------------------------------------|-------------------------------------------------|----------------------------|
| Family<br>Lunis 21                       | Order number: 51DB15MC91C<br>EAN: 4058352047194 | LP number<br>59674_2       |
| 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°       | 1527.0                       | 0.4      | 0.4                     |
| 1°       | 1525.0                       | 2.9      | 3.3                     |
| 2°       | 1521.1                       | 5.8      | 9.1                     |
| 3°       | 1512.2                       | 8.7      | 17.8                    |
| 4°       | 1501.4                       | 11.5     | 29.3                    |
| 5°       | 1487.7                       | 14.2     | 43.5                    |
| 6°       | 1473.0                       | 16.9     | 60.4                    |
| 7°       | 1456.3                       | 19.5     | 79.8                    |
| 8°       | 1434.7                       | 21.9     | 101.7                   |
| 9°       | 1412.1                       | 24.2     | 126.0                   |
| 10°      | 1387.6                       | 26.4     | 152.4                   |
| 11°      | 1364.1                       | 28.5     | 180.9                   |
| 12°      | 1338.5                       | 30.5     | 211.4                   |
| 13°      | 1307.1                       | 32.2     | 243.7                   |
| 14°      | 1267.9                       | 33.6     | 277.3                   |
| 15°      | 1222.7                       | 34.7     | 312.0                   |
| 16°      | 1178.6                       | 35.6     | 347.6                   |
| 17°      | 1134.4                       | 36.4     | 384.0                   |
| 18°      | 1093.2                       | 37.0     | 421.1                   |
| 19°      | 1047.1                       | 37.4     | 458.4                   |
| 20°      | 998.0                        | 37.4     | 495.9                   |
| 21°      | 946.5                        | 37.2     | 533.1                   |
| 22°      | 894.6                        | 36.7     | 569.8                   |
| 23°      | 842.3                        | 36.1     | 605.9                   |
| 24°      | 786.7                        | 35.1     | 641.0                   |
| 25°      | 728.9                        | 33.8     | 674.8                   |
| 26°      | 667.5                        | 32.1     | 706.9                   |
| 27°      | 609.6                        | 30.3     | 737.2                   |
| 28°      | 551.5                        | 28.4     | 765.6                   |
| 29°      | 494.9                        | 26.3     | 791.9                   |
| 30°      | 441.7                        | 24.2     | 816.1                   |
| 31°      | 387.3                        | 21.9     | 838.0                   |
| 32°      | 337.4                        | 19.6     | 857.6                   |
| 33°      | 294.0                        | 17.6     | 875.2                   |
| 34°      | 252.2                        | 15.5     | 890.7                   |
| 35°      | 213.4                        | 13.4     | 904.1                   |
| 36°      | 179.8                        | 11.6     | 915.7                   |
| 37°      | 151.5                        | 10.0     | 925.7                   |
| 38°      | 127.9                        | 8.6      | 934.3                   |
| 39°      | 107.9                        | 7.4      | 941.8                   |
| 40°      | 88.0                         | 6.2      | 948.0                   |
| 41°      | 73.6                         | 5.3      | 953.2                   |
| 42°      | 62.1                         | 4.6      | 957.8                   |
| 43°      | 53.1                         | 4.0      | 961.8                   |
| 44°      | 45.3                         | 3.5      | 965.2                   |
| 45°      | 39.7                         | 3.1      | 968.3                   |
| 46°      | 34.8                         | 2.7      | 971.1                   |

| C-planes | 0°                           | Phi-zone | Total<br>Phi-zone       |
|----------|------------------------------|----------|-------------------------|
| γ        | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 47°      | 30.9                         | 2.5      | 973.5                   |
| 48°      | 27.9                         | 2.3      | 975.8                   |
| 49°      | 25.4                         | 2.1      | 977.9                   |
| 50°      | 23.0                         | 1.9      | 979.8                   |
| 51°      | 21.1                         | 1.8      | 981.6                   |
| 52°      | 19.6                         | 1.7      | 983.3                   |
| 53°      | 18.2                         | 1.6      | 984.9                   |
| 54°      | 16.9                         | 1.5      | 986.4                   |
| 55°      | 15.8                         | 1.4      | 987.8                   |
| 56°      | 14.8                         | 1.3      | 989.2                   |
| 57°      | 13.9                         | 1.3      | 990.5                   |
| 58°      | 13.4                         | 1.2      | 991.7                   |
| 59°      | 13.0                         | 1.2      | 992.9                   |
| 60°      | 12.6                         | 1.2      | 994.1                   |
| 61°      | 11.9                         | 1.1      | 995.3                   |
| 62°      | 10.6                         | 1.0      | 996.3                   |
| 63°      | 8.6                          | 0.8      | 997.1                   |
| 64°      | 6.0                          | 0.6      | 997.7                   |
| 65°      | 4.1                          | 0.4      | 998.1                   |
| 66°      | 2.5                          | 0.2      | 998.4                   |
| 67°      | 1.3                          | 0.1      | 998.5                   |
| 68°      | 1.0                          | 0.1      | 998.6                   |
| 69°      | 1.0                          | 0.1      | 998.7                   |
| 70°      | 0.9                          | 0.1      | 998.8                   |
| 71°      | 0.8                          | 0.1      | 998.9                   |
| 72°      | 0.8                          | 0.1      | 999.0                   |
| 73°      | 0.8                          | 0.1      | 999.1                   |
| 74°      | 0.7                          | 0.1      | 999.1                   |
| 75°      | 0.7                          | 0.1      | 999.2                   |
| 76°      | 0.7                          | 0.1      | 999.3                   |
| 77°      | 0.7                          | 0.1      | 999.4                   |
| 78°      | 0.6                          | 0.1      | 999.4                   |
| 79°      | 0.6                          | 0.1      | 999.5                   |
| 80°      | 0.6                          | 0.1      | 999.5                   |
| 81°      | 0.6                          | 0.1      | 999.6                   |
| 82°      | 0.5                          | 0.1      | 999.7                   |
| 83°      | 0.5                          | 0.1      | 999.7                   |
| 84°      | 0.5                          | 0.1      | 999.8                   |
| 85°      | 0.5                          | 0.0      | 999.8                   |
| 86°      | 0.4                          | 0.0      | 999.9                   |
| 87°      | 0.4                          | 0.0      | 999.9                   |
| 88°      | 0.4                          | 0.0      | 1000.0                  |
| 89°      | 0.4                          | 0.0      | 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: 51DB15MC91C<br>EAN: 4058352047194 |      |      |      |                    |      |      | LP number<br>59674_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  | 18.4                | 19.5                                            | 18.7 | 19.8 | 20.1 | 18.4               | 19.5 | 18.7 | 19.8                 | 20.1 |
|                              | 3H  | 18.2                | 19.2                                            | 18.6 | 19.5 | 19.9 | 18.2               | 19.2 | 18.6 | 19.5                 | 19.9 |
|                              | 4H  | 18.1                | 19.0                                            | 18.5 | 19.4 | 19.8 | 18.1               | 19.0 | 18.5 | 19.4                 | 19.8 |
|                              | 6H  | 18.1                | 18.9                                            | 18.5 | 19.2 | 19.6 | 18.1               | 18.9 | 18.5 | 19.2                 | 19.6 |
|                              | 8H  | 18.2                | 18.8                                            | 18.6 | 19.2 | 19.6 | 18.2               | 18.8 | 18.6 | 19.2                 | 19.6 |
|                              | 12H | 18.1                | 18.7                                            | 18.6 | 19.1 | 19.5 | 18.1               | 18.7 | 18.6 | 19.1                 | 19.5 |
| 4H                           | 2H  | 18.2                | 19.1                                            | 18.6 | 19.4 | 19.8 | 18.2               | 19.1 | 18.6 | 19.4                 | 19.8 |
|                              | 3H  | 18.0                | 18.8                                            | 18.5 | 19.1 | 19.6 | 18.0               | 18.8 | 18.5 | 19.1                 | 19.6 |
|                              | 4H  | 17.9                | 18.6                                            | 18.4 | 19.0 | 19.4 | 17.9               | 18.6 | 18.4 | 19.0                 | 19.4 |
|                              | 6H  | 17.8                | 18.4                                            | 18.3 | 18.8 | 19.3 | 17.8               | 18.4 | 18.3 | 18.8                 | 19.3 |
|                              | 8H  | 17.8                | 18.3                                            | 18.3 | 18.7 | 19.2 | 17.8               | 18.3 | 18.3 | 18.7                 | 19.2 |
|                              | 12H | 17.8                | 18.2                                            | 18.3 | 18.6 | 19.1 | 17.8               | 18.2 | 18.3 | 18.6                 | 19.1 |
| 8H                           | 4H  | 17.8                | 18.3                                            | 18.3 | 18.7 | 19.2 | 17.8               | 18.3 | 18.3 | 18.7                 | 19.2 |
|                              | 6H  | 17.7                | 18.1                                            | 18.2 | 18.5 | 19.1 | 17.7               | 18.1 | 18.2 | 18.5                 | 19.1 |
|                              | 8H  | 17.6                | 18.0                                            | 18.1 | 18.5 | 19.0 | 17.6               | 18.0 | 18.1 | 18.5                 | 19.0 |
|                              | 12H | 17.6                | 17.9                                            | 18.1 | 18.4 | 18.9 | 17.6               | 17.9 | 18.1 | 18.4                 | 18.9 |
| 12H                          | 4H  | 17.8                | 18.2                                            | 18.3 | 18.6 | 19.1 | 17.8               | 18.2 | 18.3 | 18.6                 | 19.1 |
|                              | 6H  | 17.7                | 18.0                                            | 18.2 | 18.4 | 19.0 | 17.7               | 18.0 | 18.2 | 18.4                 | 19.0 |
|                              | 8H  | 17.6                | 17.9                                            | 18.1 | 18.4 | 18.9 | 17.6               | 17.9 | 18.1 | 18.4                 | 18.9 |

|                 |                    |                                 |                               |        |
|-----------------|--------------------|---------------------------------|-------------------------------|--------|
| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | D = 84 |
| C-planes        | 0°                 |                                 |                               |        |
| $\gamma$        | Luminance in cd/m² |                                 |                               |        |
| 45°             | 18832.0            |                                 |                               |        |
| 50°             | 12010.5            |                                 |                               |        |
| 55°             | 9216.2             |                                 |                               |        |
| 60°             | 8451.2             |                                 |                               |        |
| 65°             | 3251.4             |                                 |                               |        |
| 70°             | 880.2              |                                 |                               |        |
| 75°             | 918.1              |                                 |                               |        |
| 80°             | 1117.2             |                                 |                               |        |
| 85°             | 1748.3             |                                 |                               |        |

Photometric test report

Family  
Lunis 21

Order number: 51DB15MC91C  
EAN: 4058352047194

LP number  
59674\_2

Luminance values in cd/m²

γ 65°

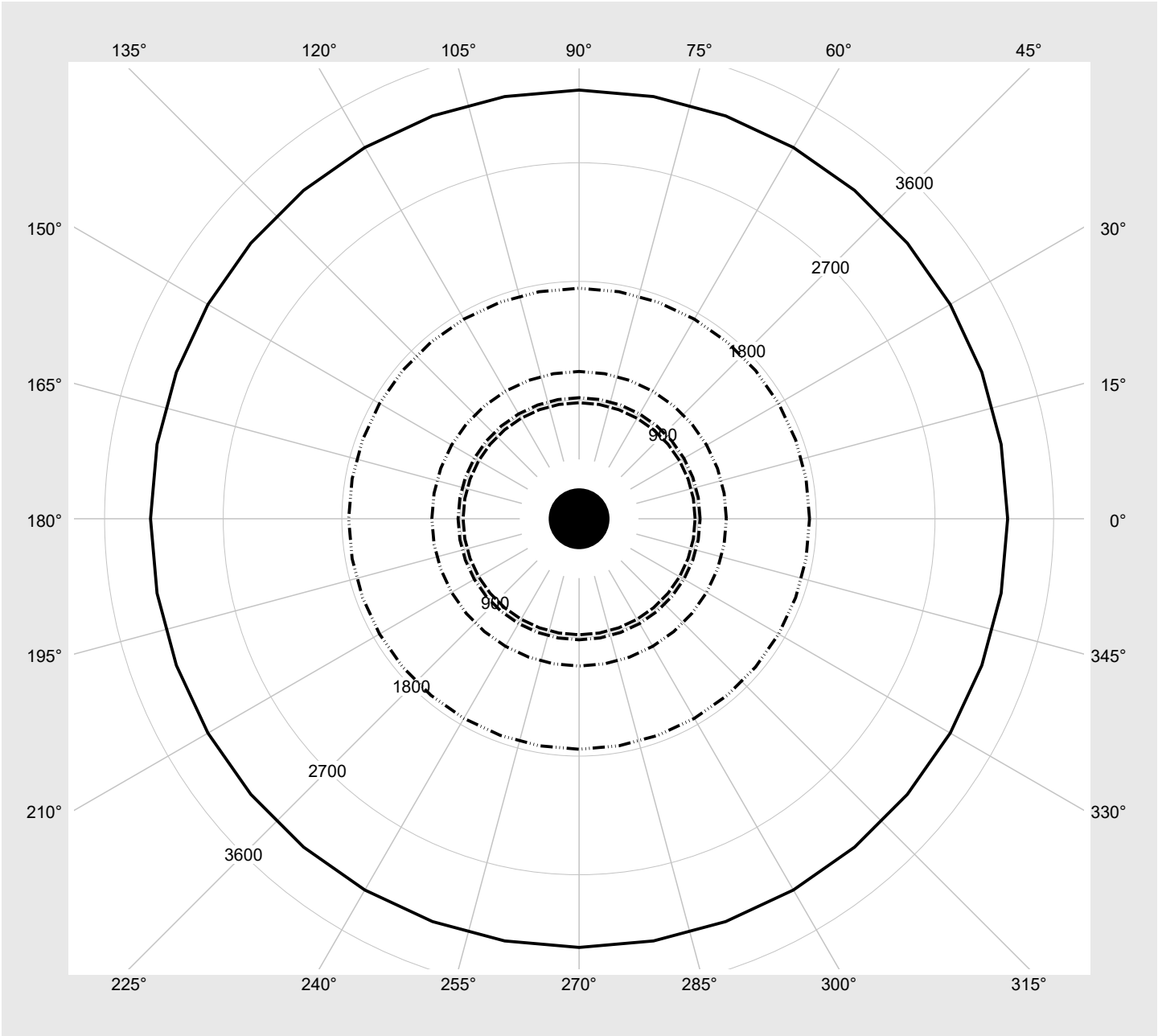
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

|                    |                                                 |                      |
|--------------------|-------------------------------------------------|----------------------|
| Family<br>Lunis 21 | Order number: 51DB15MC91C<br>EAN: 4058352047194 | LP number<br>59674_2 |
| 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 | 4080                  | 25.5                     |
| 11       | ON             | OFF | ON  | ON  | 3760                  | 22.1                     |
| 10       | ON             | OFF | ON  | OFF | 3520                  | 20.6                     |
| 9        | ON             | OFF | OFF | ON  | 3340                  | 19.5                     |
| 8        | ON             | OFF | OFF | OFF | 3100                  | 18.0                     |
| 7        | OFF            | ON  | ON  | ON  | 2720                  | 15.7                     |
| 6        | OFF            | ON  | ON  | OFF | 2430                  | 13.9                     |
| 5        | OFF            | ON  | OFF | ON  | 2170                  | 12.4                     |
| 4        | OFF            | ON  | OFF | OFF | 1860                  | 10.6                     |
| 3        | OFF            | OFF | ON  | ON  | 1710                  | 9.7                      |
| 2        | OFF            | OFF | ON  | OFF | 1410                  | 8.0                      |
| 1        | OFF            | OFF | OFF | ON  | 1070                  | 6.1                      |
| 0        | OFF            | OFF | OFF | OFF | 770                   | 4.4                      |