



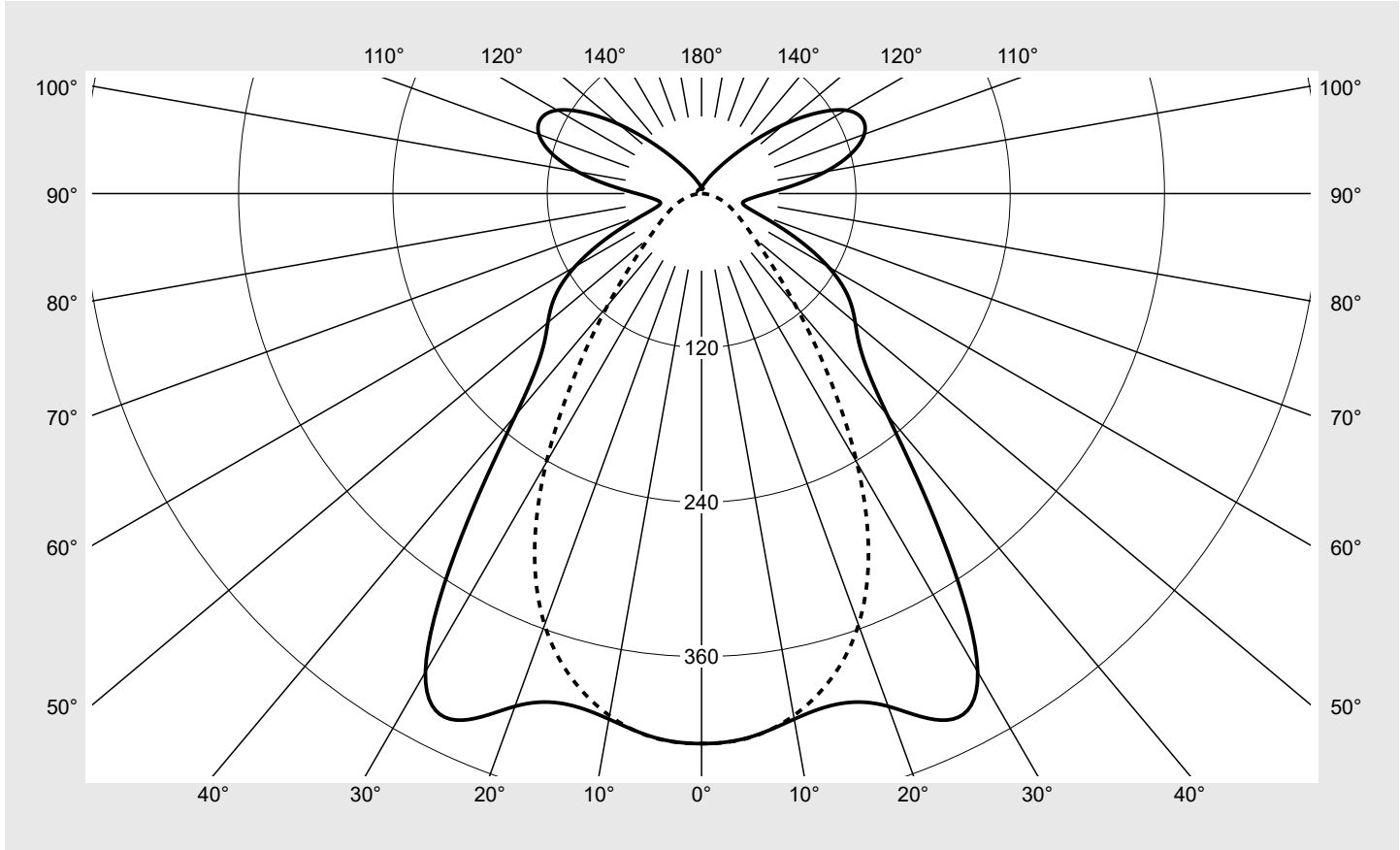
# Photometric test report

|   |   |  |
|---|---|--|
| <b>Family</b><br><b>Licross® 21 Performance</b> | <b>Order number: 52TM16CN46XG</b><br><b>EAN: 4058352903445</b>  | <b>LP number</b><br><b>58520_314</b>             |
|   | <b>Version</b> cover frosted, direct-/ indirect distribution<br><b>Lamps</b> LED 4000 K   CRI ≥ 80<br><b>Controlgear</b> ECG-Multilumen CLOi<br><b>Rated values</b> Net luminous flux = 6000 lm<br>Power consumption = 32.0 W<br>Luminous efficacy = 187.5 lm/W | <b>serial documentation</b><br><b>17.08.2023</b> |





**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 452 cd/klm**



| Classifications |                                   |
|-----------------|-----------------------------------|
| DIN 5040        | B 5 1                             |
| CIE             | N1=65 N2=88 N3=96<br>N4=79 N5=100 |

| Luminaire light output ratios |        |
|-------------------------------|--------|
| $\eta_{LB}$                   | 100.0% |
| $\phi_u$                      | 79.3%  |
| $\phi_o$                      | 20.7%  |

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

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|   |  |                                      |
|---|--|--------------------------------------|
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| <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°                           | 427.7      | 427.7                | 427.7                | 427.7                | 427.7                | 427.7                | 427.7                   | 2.6      | 2.6               |
| 5°                           | 424.4      | 422.4                | 420.2                | 422.1                | 424.3                | 424.4                | 424.8                   | 20.2     | 22.8              |
| 10°                          | 414.9      | 412.5                | 408.9                | 409.5                | 411.2                | 411.6                | 412.2                   | 39.1     | 61.9              |
| 15°                          | 410.8      | 406.7                | 398.1                | 393.2                | 390.9                | 389.7                | 390.1                   | 56.3     | 118.2             |
| 20°                          | 424.3      | 415.5                | 394.5                | 375.8                | 364.0                | 357.7                | 356.8                   | 71.8     | 190.0             |
| 25°                          | 451.7      | 439.9                | 403.9                | 360.3                | 329.2                | 311.6                | 307.2                   | 85.9     | 275.8             |
| 30°                          | 429.5      | 430.9                | 412.5                | 347.4                | 284.5                | 251.0                | 241.5                   | 94.2     | 370.0             |
| 35°                          | 325.6      | 344.5                | 379.3                | 329.0                | 231.5                | 183.8                | 171.0                   | 89.9     | 460.0             |
| 40°                          | 224.9      | 238.5                | 293.1                | 289.7                | 177.2                | 125.7                | 113.8                   | 76.0     | 535.9             |
| 45°                          | 176.4      | 174.8                | 199.5                | 224.7                | 128.0                | 84.3                 | 75.7                    | 60.6     | 596.5             |
| 50°                          | 156.0      | 144.3                | 136.6                | 154.2                | 90.2                 | 58.9                 | 53.2                    | 48.2     | 644.7             |
| 55°                          | 139.0      | 122.9                | 98.4                 | 99.7                 | 63.9                 | 43.4                 | 39.8                    | 38.7     | 683.4             |
| 60°                          | 113.7      | 99.1                 | 72.2                 | 64.7                 | 46.3                 | 33.0                 | 30.8                    | 30.7     | 714.1             |
| 65°                          | 79.7       | 70.2                 | 51.6                 | 43.8                 | 34.5                 | 25.6                 | 24.0                    | 23.0     | 737.1             |
| 70°                          | 47.7       | 43.4                 | 35.6                 | 31.1                 | 26.2                 | 19.7                 | 18.2                    | 16.2     | 753.3             |
| 75°                          | 33.9       | 31.2                 | 26.1                 | 23.2                 | 19.9                 | 14.4                 | 12.7                    | 12.2     | 765.5             |
| 80°                          | 33.7       | 30.7                 | 23.7                 | 18.2                 | 15.1                 | 9.9                  | 7.5                     | 10.6     | 776.1             |
| 85°                          | 39.3       | 35.6                 | 26.3                 | 17.2                 | 11.4                 | 6.2                  | 3.2                     | 10.7     | 786.9             |
| 90°                          | 50.4       | 45.6                 | 32.3                 | 18.9                 | 10.0                 | 3.9                  | 0.6                     | 12.4     | 799.3             |
| 95°                          | 71.3       | 63.5                 | 42.3                 | 22.5                 | 11.4                 | 4.6                  | 1.0                     | 16.4     | 815.7             |
| 100°                         | 97.9       | 84.6                 | 52.5                 | 26.5                 | 12.9                 | 5.3                  | 1.6                     | 20.8     | 836.6             |
| 105°                         | 120.7      | 101.7                | 62.6                 | 30.2                 | 14.2                 | 6.1                  | 2.4                     | 24.4     | 860.9             |
| 110°                         | 134.6      | 112.6                | 69.4                 | 33.2                 | 15.3                 | 6.7                  | 2.9                     | 26.3     | 887.2             |
| 115°                         | 137.8      | 115.5                | 72.0                 | 34.6                 | 16.0                 | 7.2                  | 3.2                     | 26.1     | 913.3             |
| 120°                         | 129.6      | 108.9                | 68.7                 | 33.6                 | 15.7                 | 7.4                  | 3.5                     | 23.8     | 937.1             |
| 125°                         | 109.1      | 92.2                 | 59.5                 | 30.3                 | 14.7                 | 7.4                  | 3.7                     | 19.5     | 956.6             |
| 130°                         | 83.4       | 71.0                 | 47.4                 | 25.5                 | 13.2                 | 7.2                  | 3.7                     | 14.5     | 971.2             |
| 135°                         | 58.6       | 50.3                 | 35.1                 | 20.5                 | 11.4                 | 6.8                  | 3.7                     | 10.0     | 981.2             |
| 140°                         | 39.2       | 34.3                 | 25.3                 | 16.3                 | 9.8                  | 6.3                  | 3.7                     | 6.7      | 987.9             |
| 145°                         | 26.6       | 23.8                 | 18.6                 | 13.0                 | 8.2                  | 5.4                  | 3.7                     | 4.4      | 992.3             |
| 150°                         | 18.7       | 17.2                 | 14.2                 | 10.0                 | 6.9                  | 5.0                  | 3.7                     | 2.9      | 995.2             |
| 155°                         | 13.8       | 12.8                 | 10.8                 | 7.8                  | 6.8                  | 4.4                  | 3.6                     | 2.0      | 997.2             |
| 160°                         | 10.2       | 9.8                  | 7.9                  | 6.8                  | 5.6                  | 4.6                  | 3.5                     | 1.3      | 998.5             |
| 165°                         | 8.2        | 7.8                  | 6.5                  | 5.6                  | 5.0                  | 4.1                  | 3.7                     | 0.8      | 999.3             |
| 170°                         | 6.4        | 5.6                  | 4.7                  | 4.7                  | 5.0                  | 4.1                  | 3.9                     | 0.5      | 999.8             |
| 175°                         | 4.2        | 3.7                  | 4.1                  | 4.1                  | 4.1                  | 4.2                  | 4.2                     | 0.2      | 1000.0            |
| 180°                         | 3.7        | 3.7                  | 3.7                  | 3.7                  | 3.7                  | 3.7                  | 3.7                     | 0.0      | 1000.0            |

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|  |  |                               |
|--|--|-------------------------------|
| <b>Family</b><br>Licross® 21 Performance | <b>Order number: 52TM16CN46XG</b><br><b>EAN: 4058352903445</b> | <b>LP number</b><br>58520_314 |
|--|--|-------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <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                  | 17.3 | 18.6 | 17.9 | 19.1 | 19.8               | 13.5 | 14.8 | 14.1 | 15.3 | 16.0 |
|                              | 3H                  | 17.9 | 19.0 | 18.5 | 19.6 | 20.3               | 13.9 | 15.0 | 14.5 | 15.6 | 16.3 |
|                              | 4H                  | 18.1 | 19.1 | 18.7 | 19.7 | 20.4               | 14.1 | 15.2 | 14.7 | 15.8 | 16.5 |
|                              | 6H                  | 18.3 | 19.2 | 19.0 | 19.9 | 20.6               | 14.3 | 15.2 | 14.9 | 15.8 | 16.6 |
|                              | 8H                  | 18.6 | 19.4 | 19.3 | 20.0 | 20.8               | 14.2 | 15.1 | 14.9 | 15.8 | 16.5 |
|                              | 12H                 | 18.9 | 19.6 | 19.6 | 20.3 | 21.1               | 14.3 | 15.1 | 14.9 | 15.8 | 16.5 |
| 4H                           | 2H                  | 17.3 | 18.4 | 17.9 | 19.0 | 19.6               | 14.0 | 15.0 | 14.6 | 15.6 | 16.3 |
|                              | 3H                  | 18.0 | 18.8 | 18.6 | 19.5 | 20.3               | 14.5 | 15.4 | 15.2 | 16.0 | 16.8 |
|                              | 4H                  | 18.2 | 19.0 | 18.9 | 19.7 | 20.5               | 14.8 | 15.6 | 15.5 | 16.3 | 17.1 |
|                              | 6H                  | 18.7 | 19.3 | 19.4 | 20.0 | 20.9               | 15.0 | 15.7 | 15.7 | 16.4 | 17.2 |
|                              | 8H                  | 19.0 | 19.6 | 19.7 | 20.3 | 21.2               | 15.1 | 15.7 | 15.8 | 16.4 | 17.3 |
|                              | 12H                 | 19.5 | 20.0 | 20.3 | 20.8 | 21.7               | 15.1 | 15.7 | 15.9 | 16.4 | 17.3 |
| 8H                           | 4H                  | 18.2 | 18.8 | 18.9 | 19.5 | 20.4               | 15.0 | 15.6 | 15.7 | 16.3 | 17.1 |
|                              | 6H                  | 18.8 | 19.3 | 19.5 | 20.0 | 20.9               | 15.4 | 15.8 | 16.1 | 16.6 | 17.5 |
|                              | 8H                  | 19.3 | 19.7 | 20.0 | 20.5 | 21.3               | 15.5 | 16.0 | 16.3 | 16.7 | 17.6 |
|                              | 12H                 | 20.0 | 20.4 | 20.8 | 21.2 | 22.1               | 15.6 | 16.0 | 16.4 | 16.8 | 17.7 |
| 12H                          | 4H                  | 18.1 | 18.7 | 18.9 | 19.4 | 20.3               | 15.0 | 15.5 | 15.8 | 16.2 | 17.1 |
|                              | 6H                  | 18.7 | 19.2 | 19.5 | 19.9 | 20.8               | 15.5 | 15.9 | 16.2 | 16.6 | 17.6 |
|                              | 8H                  | 19.3 | 19.7 | 20.1 | 20.4 | 21.4               | 15.7 | 16.1 | 16.5 | 16.8 | 17.8 |

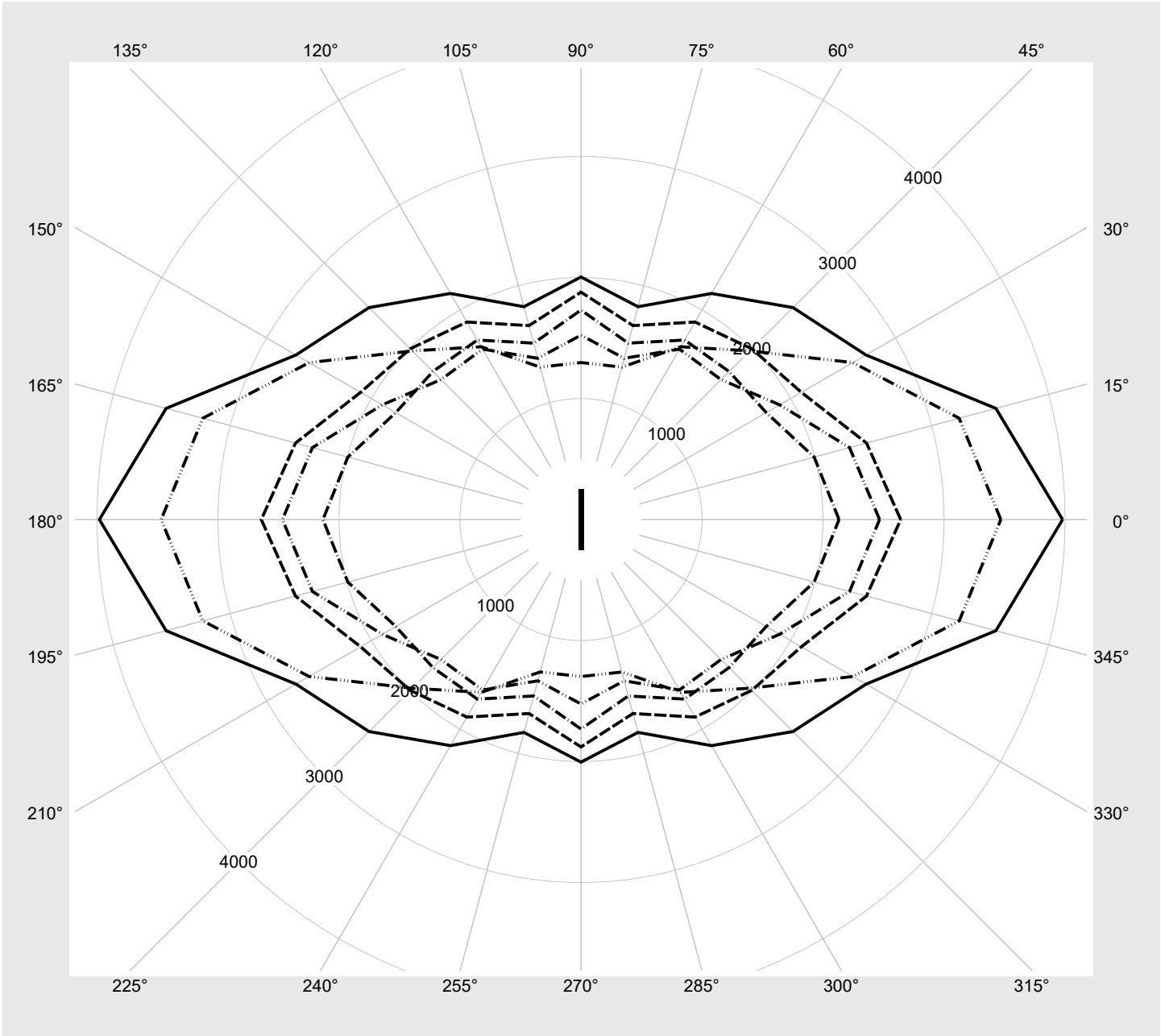
|                        |   |                                      |                 |                   |                     |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 1480</b> | <b>H(C0) = 36</b> | <b>H(C180) = 36</b> |
|                        |   |                                      | <b>B = 115</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°      |          | 6698.4                         | 6691.2                      | 7825.1                      | 9172.2                      | 5519.9                      | 3888.4                      | 3771.9      |  |  |
| 50°      |          | 6231.1                         | 5815.8                      | 5660.2                      | 6692.1                      | 4170.4                      | 2947.4                      | 2916.0      |  |  |
| 55°      |          | 5903.6                         | 5276.7                      | 4360.6                      | 4657.0                      | 3209.5                      | 2390.6                      | 2444.7      |  |  |
| 60°      |          | 5197.5                         | 4586.8                      | 3462.6                      | 3297.8                      | 2570.7                      | 2043.4                      | 2171.4      |  |  |
| 65°      |          | 3980.1                         | 3549.7                      | 2720.2                      | 2477.6                      | 2157.5                      | 1821.2                      | 2004.8      |  |  |
| 70°      |          | 2642.2                         | 2442.9                      | 2103.1                      | 1996.1                      | 1885.0                      | 1659.7                      | 1879.3      |  |  |
| 75°      |          | 2132.4                         | 1994.9                      | 1767.8                      | 1730.5                      | 1713.4                      | 1509.5                      | 1731.3      |  |  |
| 80°      |          | 2467.4                         | 2297.8                      | 1896.0                      | 1636.2                      | 1626.6                      | 1379.7                      | 1524.0      |  |  |
| 85°      |          | 3469.6                         | 3235.7                      | 2594.3                      | 1971.2                      | 1649.2                      | 1304.3                      | 1297.6      |  |  |

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

**Luminance values in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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

|                         |                                 |               |
|-------------------------|---------------------------------|---------------|
| <b>Multilumen Table</b> | environmental temperature: 25°C | <b>sITeco</b> |
|-------------------------|---------------------------------|---------------|

| DIP-Step | Switch Setting |   |   | Luminous flux<br>[lm] | Power consumption<br>[W] | Power consumption      | Power consumption |
|----------|----------------|---|---|-----------------------|--------------------------|------------------------|-------------------|
|          | 1              | 2 | 3 |                       |                          | end of lifetime<br>[W] | average<br>[W]    |
| 1        | A              | C | E | 6000                  | 32.0                     | 38.0                   | 35.0              |
| 2        | A              | C | F | 5842                  | 31.2                     | 36.6                   | 33.9              |
| 3        | A              | D | E | 5611                  | 29.9                     | 35.4                   | 32.6              |
| 4        | A              | D | F | 5380                  | 28.6                     | 33.8                   | 31.2              |
| 5        | B              | C | E | 5222                  | 27.9                     | 32.8                   | 30.4              |
| 6        | B              | C | F | 4981                  | 26.6                     | 31.2                   | 28.9              |
| 7        | B              | D | E | 4823                  | 25.7                     | 30.3                   | 28.0              |
| 8        | B              | D | F | 4508                  | 24.1                     | 28.2                   | 26.2              |