

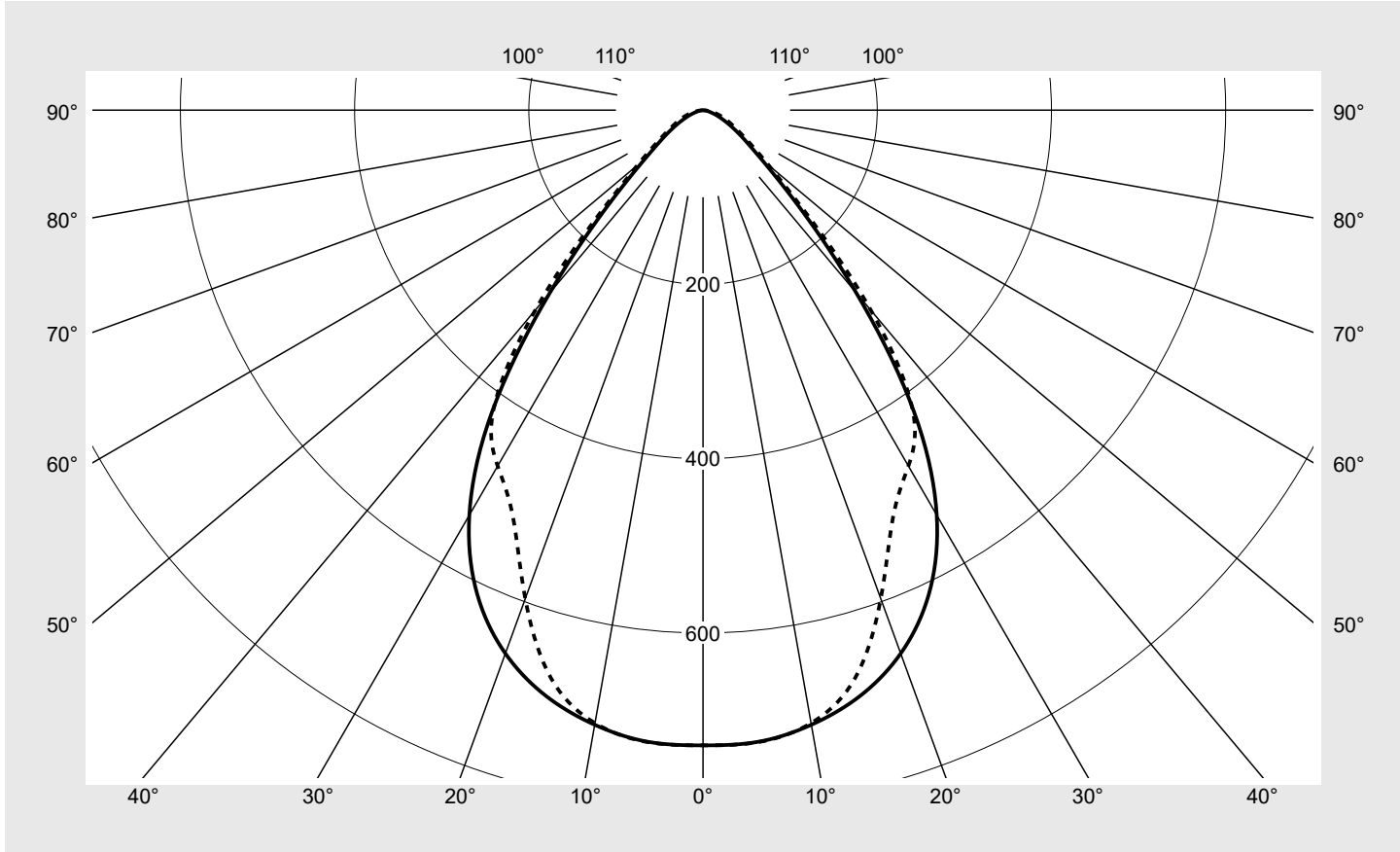


# Photometric test report

|  |  |   |
|--|--|---|
| <b>Family</b><br><b>Licross® 21 Recessed</b>                                     | <b>Order number: 52TL18VN455G</b><br><b>EAN: 4058352979587</b>   | <b>LP number</b><br><b>59103_294</b>  |
|  | <b>Version</b> cover frosted, medium distribution, high visual comfort<br><b>Lamps</b> LED 4000 K   CRI ≥ 80<br><b>Controlgear</b> ECG-DALI CLO<br><b>Rated values</b> Net luminous flux = 5500 lm<br>Power consumption = 30.5 W<br>Luminous efficacy = 180.3 lm/W | <b>serial documentation</b><br><b>07.11.2023</b>                                    |
|  |  |  |

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 729 cd/klm**



| Classifications |                                    |
|-----------------|------------------------------------|
| DIN 5040        | A 6 0                              |
| CIE             | N1=79 N2=95 N3=99<br>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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|   |  |                                      |
|---|--|--------------------------------------|
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| <b>Table of values for luminous intensities</b> |  | <b>Maximum luminous intensity</b>    |
|   |  | <b>sITeco</b>                        |

| C-planes<br>$\gamma$         | 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°                           | 728.9      | 728.9                | 728.9                | 728.9                | 728.9                | 728.9                | 728.9                   | 4.4      | 4.4               |
| 5°                           | 727.6      | 725.6                | 721.4                | 724.4                | 727.7                | 727.5                | 728.0                   | 34.7     | 39.0              |
| 10°                          | 716.2      | 715.8                | 711.3                | 714.1                | 716.0                | 714.5                | 714.3                   | 68.0     | 107.0             |
| 15°                          | 696.1      | 697.2                | 692.4                | 692.3                | 687.6                | 678.3                | 674.7                   | 97.7     | 204.8             |
| 20°                          | 663.5      | 665.6                | 659.3                | 649.0                | 628.4                | 605.3                | 596.6                   | 119.9    | 324.7             |
| 25°                          | 613.2      | 616.1                | 603.1                | 573.7                | 542.7                | 522.2                | 516.0                   | 132.1    | 456.8             |
| 30°                          | 536.6      | 538.7                | 513.6                | 472.5                | 462.2                | 468.1                | 471.5                   | 135.2    | 592.0             |
| 35°                          | 422.0      | 421.2                | 386.0                | 361.6                | 387.1                | 411.1                | 419.4                   | 125.1    | 717.1             |
| 40°                          | 273.6      | 269.8                | 241.4                | 246.2                | 279.1                | 295.4                | 299.7                   | 95.1     | 812.2             |
| 45°                          | 153.4      | 148.0                | 132.2                | 146.4                | 164.6                | 167.9                | 167.6                   | 59.4     | 871.5             |
| 50°                          | 87.1       | 86.0                 | 88.4                 | 95.4                 | 105.5                | 102.0                | 98.3                    | 39.9     | 911.4             |
| 55°                          | 56.5       | 55.2                 | 58.2                 | 69.2                 | 74.7                 | 68.5                 | 64.6                    | 28.9     | 940.4             |
| 60°                          | 37.8       | 37.4                 | 39.6                 | 46.2                 | 52.4                 | 47.5                 | 45.7                    | 20.9     | 961.3             |
| 65°                          | 24.5       | 24.8                 | 27.6                 | 32.4                 | 36.8                 | 34.0                 | 33.6                    | 15.3     | 976.6             |
| 70°                          | 15.3       | 15.7                 | 18.0                 | 22.8                 | 25.8                 | 24.5                 | 24.5                    | 10.9     | 987.5             |
| 75°                          | 8.5        | 8.7                  | 10.3                 | 14.3                 | 17.1                 | 16.5                 | 16.4                    | 7.0      | 994.5             |
| 80°                          | 4.5        | 4.6                  | 5.3                  | 7.4                  | 9.6                  | 9.5                  | 9.0                     | 3.9      | 998.3             |
| 85°                          | 2.3        | 2.3                  | 2.4                  | 3.2                  | 3.8                  | 3.8                  | 3.2                     | 1.7      | 1000.0            |
| 90°                          | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                     | 0.0      | 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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|                                       |  |                               |
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|---------------------------------------|--|-------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <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                  | 18.2 | 19.5 | 18.5 | 19.8 | 20.1               | 18.8 | 20.2 | 19.2 | 20.5 | 20.8 |
|                              | 3H                  | 18.3 | 19.5 | 18.7 | 19.8 | 20.2               | 19.2 | 20.4 | 19.6 | 20.7 | 21.1 |
|                              | 4H                  | 18.3 | 19.4 | 18.7 | 19.8 | 20.2               | 19.3 | 20.5 | 19.7 | 20.8 | 21.2 |
|                              | 6H                  | 18.3 | 19.3 | 18.7 | 19.7 | 20.1               | 19.5 | 20.5 | 19.9 | 20.8 | 21.2 |
|                              | 8H                  | 18.4 | 19.3 | 18.8 | 19.7 | 20.1               | 19.6 | 20.4 | 20.0 | 20.8 | 21.2 |
|                              | 12H                 | 18.4 | 19.2 | 18.8 | 19.6 | 20.0               | 19.6 | 20.4 | 20.0 | 20.8 | 21.2 |
| 4H                           | 2H                  | 18.3 | 19.4 | 18.7 | 19.8 | 20.1               | 18.9 | 20.0 | 19.3 | 20.4 | 20.7 |
|                              | 3H                  | 18.5 | 19.5 | 19.0 | 19.9 | 20.3               | 19.4 | 20.3 | 19.9 | 20.7 | 21.2 |
|                              | 4H                  | 18.6 | 19.4 | 19.0 | 19.8 | 20.3               | 19.7 | 20.5 | 20.1 | 20.9 | 21.4 |
|                              | 6H                  | 18.6 | 19.3 | 19.1 | 19.7 | 20.2               | 19.9 | 20.6 | 20.3 | 21.0 | 21.5 |
|                              | 8H                  | 18.6 | 19.2 | 19.1 | 19.7 | 20.2               | 19.9 | 20.6 | 20.4 | 21.0 | 21.5 |
|                              | 12H                 | 18.6 | 19.2 | 19.1 | 19.6 | 20.1               | 20.0 | 20.5 | 20.5 | 21.0 | 21.5 |
| 8H                           | 4H                  | 18.7 | 19.3 | 19.2 | 19.7 | 20.2               | 19.7 | 20.3 | 20.2 | 20.8 | 21.3 |
|                              | 6H                  | 18.7 | 19.2 | 19.2 | 19.7 | 20.2               | 20.0 | 20.5 | 20.5 | 21.0 | 21.5 |
|                              | 8H                  | 18.7 | 19.2 | 19.2 | 19.7 | 20.2               | 20.1 | 20.5 | 20.6 | 21.0 | 21.5 |
|                              | 12H                 | 18.7 | 19.1 | 19.3 | 19.6 | 20.2               | 20.1 | 20.5 | 20.7 | 21.0 | 21.5 |
| 12H                          | 4H                  | 18.7 | 19.2 | 19.2 | 19.7 | 20.2               | 19.7 | 20.2 | 20.2 | 20.7 | 21.2 |
|                              | 6H                  | 18.7 | 19.2 | 19.3 | 19.6 | 20.2               | 20.0 | 20.4 | 20.5 | 20.9 | 21.4 |
|                              | 8H                  | 18.8 | 19.1 | 19.3 | 19.6 | 20.2               | 20.1 | 20.4 | 20.6 | 20.9 | 21.5 |

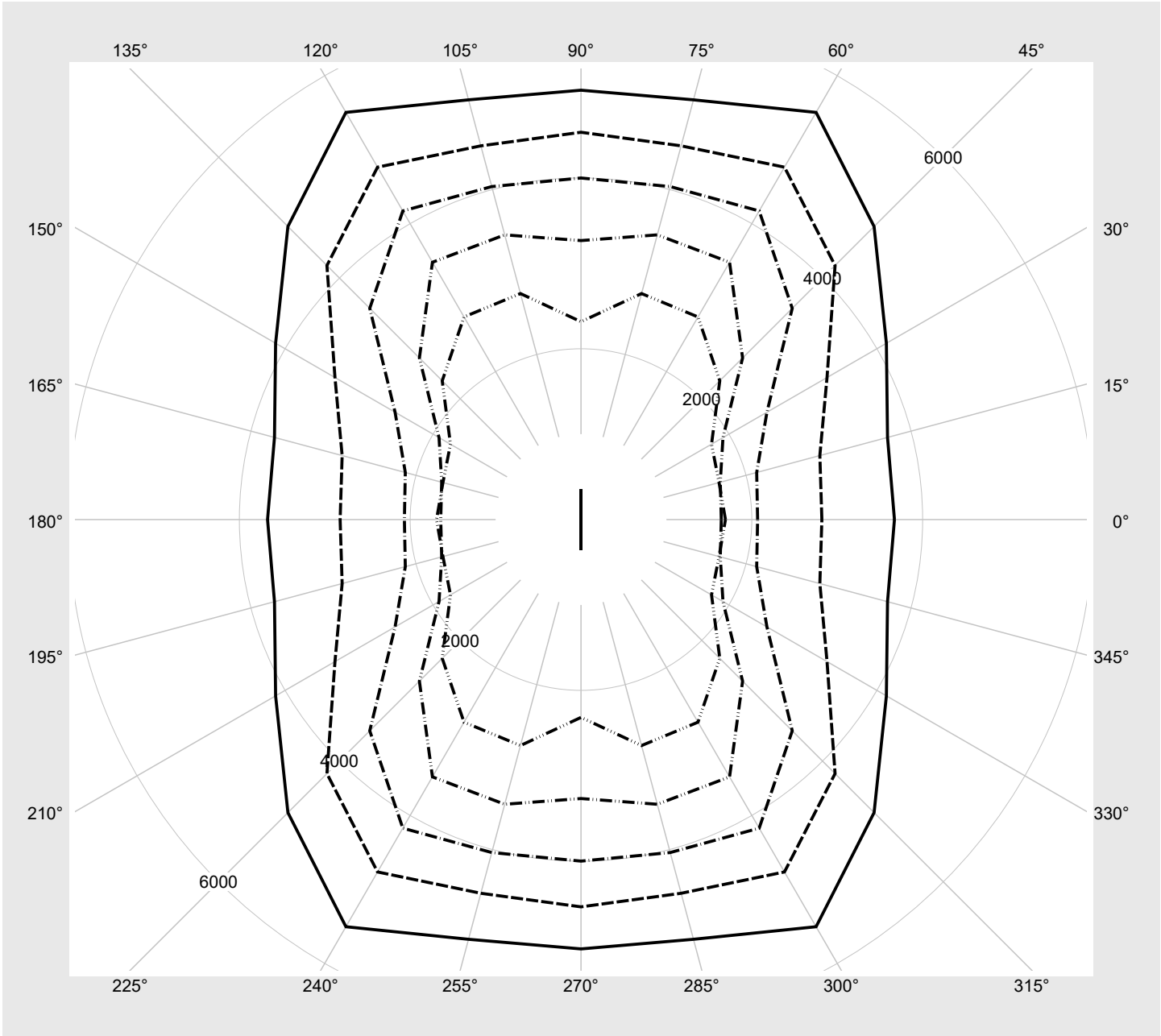
|                        |   |                                      |                                  |
|------------------------|---|--------------------------------------|----------------------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 1500</b><br><b>B = 58</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°      |          | 13714.3                        | 13229.3                     | 11817.6                     | 13084.3                     | 14715.9                     | 15010.4                     | 14987.8     |  |
| 50°      |          | 8570.3                         | 8458.1                      | 8695.0                      | 9383.0                      | 10377.6                     | 10028.6                     | 9672.2      |  |
| 55°      |          | 6224.2                         | 6081.7                      | 6411.4                      | 7632.1                      | 8232.8                      | 7554.0                      | 7118.1      |  |
| 60°      |          | 4775.0                         | 4723.8                      | 5002.6                      | 5842.1                      | 6621.0                      | 6005.6                      | 5774.9      |  |
| 65°      |          | 3670.1                         | 3715.6                      | 4128.9                      | 4853.1                      | 5505.3                      | 5088.2                      | 5027.5      |  |
| 70°      |          | 2820.3                         | 2895.3                      | 3326.3                      | 4207.1                      | 4764.6                      | 4530.4                      | 4535.0      |  |
| 75°      |          | 2067.9                         | 2129.7                      | 2513.6                      | 3498.0                      | 4172.6                      | 4036.6                      | 3999.5      |  |
| 80°      |          | 1642.6                         | 1688.5                      | 1919.3                      | 2675.8                      | 3479.0                      | 3451.3                      | 3266.7      |  |
| 85°      |          | 1691.5                         | 1673.4                      | 1764.8                      | 2297.9                      | 2739.6                      | 2739.6                      | 2316.8      |  |

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

|                             |                                 |               |
|-----------------------------|---------------------------------|---------------|
| <b>Dimming levels table</b> | environmental temperature: 25°C | <b>siteco</b> |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] start of lifetime | Power consumption [W] end of lifetime | Power consumption [W] average |
|-----------------|----------------------|---------------------------|--------------------|---|---------------------------------------|-------------------------------|
| 100             | 254                  | 254                       | 5500               | 30.5                                    | 36.2                                  | 33.4                          |
| 95              | 241                  | 252                       | 5229               | 28.9                                    | 34.4                                  | 31.6                          |
| 90              | 228                  | 250                       | 4956               | 27.6                                    | 32.6                                  | 30.1                          |
| 85              | 215                  | 248                       | 4684               | 26.1                                    | 30.8                                  | 28.4                          |
| 80              | 202                  | 246                       | 4408               | 24.7                                    | 29.0                                  | 26.8                          |
| 75              | 189                  | 243                       | 4134               | 23.3                                    | 27.3                                  | 25.3                          |
| 70              | 176                  | 241                       | 3854               | 21.8                                    | 25.6                                  | 23.7                          |
| 65              | 163                  | 238                       | 3578               | 20.3                                    | 23.9                                  | 22.1                          |
| 60              | 150                  | 235                       | 3296               | 18.8                                    | 22.2                                  | 20.5                          |
| 55              | 137                  | 231                       | 3017               | 17.3                                    | 20.3                                  | 18.8                          |
| 50              | 125                  | 228                       | 2754               | 15.9                                    | 18.7                                  | 17.3                          |
| 45              | 112                  | 224                       | 2472               | 14.3                                    | 16.9                                  | 15.6                          |
| 40              | 100                  | 220                       | 2209               | 12.8                                    | 15.2                                  | 14.0                          |
| 35              | 87                   | 215                       | 1924               | 11.7                                    | 13.4                                  | 12.6                          |
| 30              | 75                   | 209                       | 1658               | 10.5                                    | 11.8                                  | 11.2                          |
| 25              | 62                   | 202                       | 1373               | 9.1                                     | 10.4                                  | 9.8                           |
| 20              | 50                   | 194                       | 1104               | 7.7                                     | 8.8                                   | 8.2                           |
| 15              | 37                   | 183                       | 816                | 6.2                                     | 7.0                                   | 6.6                           |