

## Photometric test report

**Family**  
**Licross® 11 Protected**

**Order number: 51TS12VN465FD**  
**EAN: 4058352474921**

**LP number**  
**58522\_60**



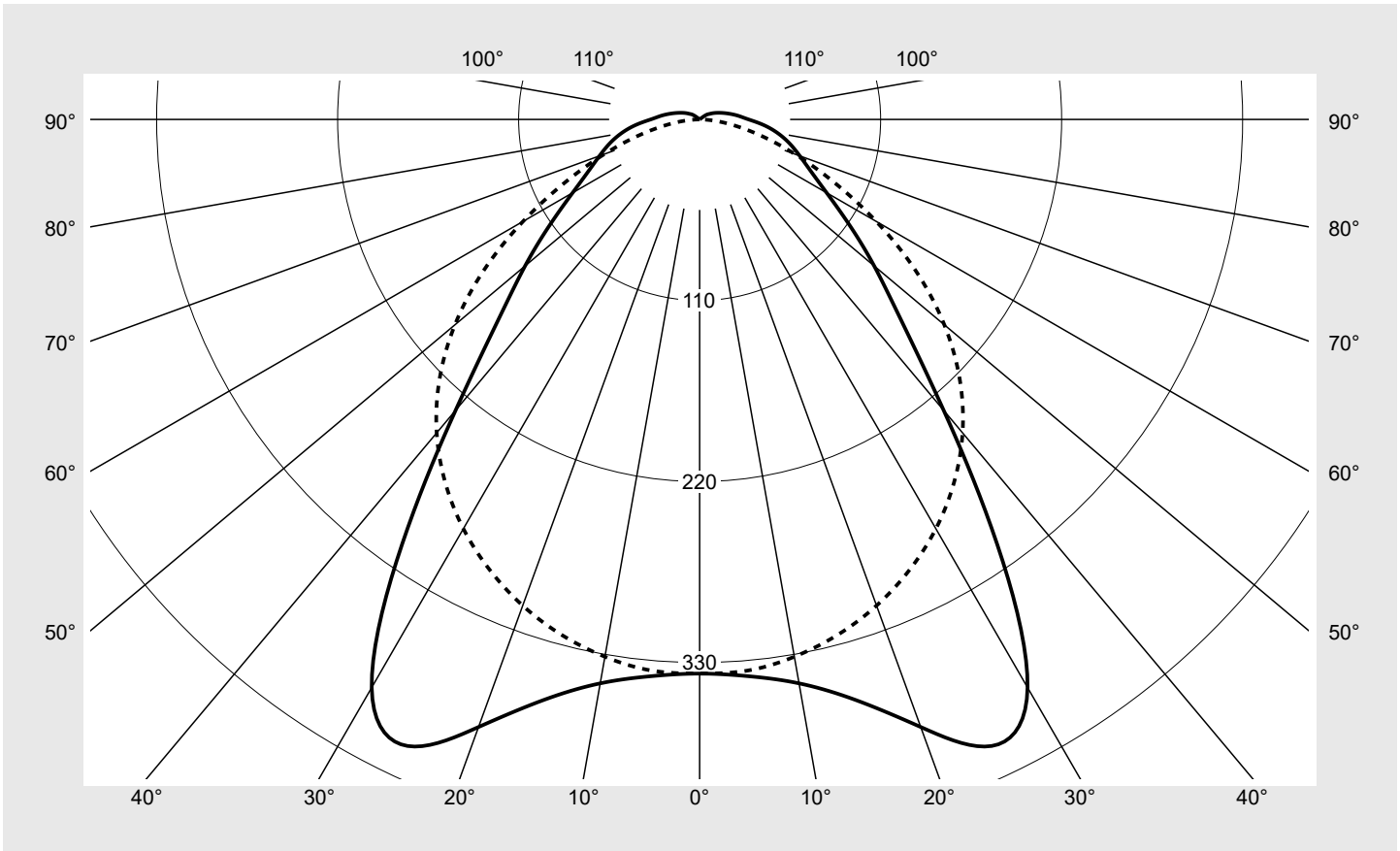
**Version** prismatic cover, frosted, wide distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-DALI CLO  
**Rated values** Net luminous flux = 6530 lm  
 Power consumption = 42.6 W  
 Luminous efficacy = 153.3 lm/W

**serial**  
**documentation**  
**25.01.2021**

**sitEco**

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

**Imax: 420 cd/klm**



### Classifications

DIN 5040 A 4 1  
 CIE N1=54 N2=82 N3=95  
 N4=97 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  96.8%  
 $\phi_o$  3.2%

### Measurement conditions

DIN EN 13032 and DIN 5032

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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°                           | 336.7      | 336.7                | 336.7                | 336.7                | 336.7                | 336.7                | 336.7       | 2.0                     | 2.0               |
| 5°                           | 339.6      | 338.6                | 335.9                | 336.3                | 336.9                | 336.0                | 336.1       | 16.1                    | 18.1              |
| 10°                          | 347.9      | 347.0                | 341.3                | 338.0                | 335.2                | 332.1                | 331.5       | 32.3                    | 50.4              |
| 15°                          | 365.1      | 363.4                | 352.6                | 343.0                | 333.9                | 326.3                | 324.2       | 48.8                    | 99.2              |
| 20°                          | 392.9      | 389.6                | 370.2                | 350.5                | 332.5                | 318.7                | 314.4       | 66.1                    | 165.3             |
| 25°                          | 420.1      | 417.2                | 393.2                | 361.7                | 330.8                | 309.3                | 301.9       | 83.9                    | 249.2             |
| 30°                          | 398.6      | 403.0                | 395.6                | 369.9                | 329.0                | 297.6                | 287.2       | 97.7                    | 346.8             |
| 35°                          | 315.4      | 327.2                | 346.9                | 353.5                | 322.7                | 283.2                | 269.5       | 100.9                   | 447.7             |
| 40°                          | 230.7      | 242.3                | 270.7                | 302.4                | 300.6                | 265.5                | 248.6       | 95.2                    | 542.9             |
| 45°                          | 173.9      | 182.1                | 205.6                | 239.8                | 258.3                | 240.0                | 223.6       | 85.6                    | 628.5             |
| 50°                          | 138.5      | 144.5                | 161.6                | 188.3                | 208.7                | 204.6                | 194.1       | 75.2                    | 703.7             |
| 55°                          | 110.6      | 115.5                | 130.2                | 150.3                | 164.6                | 163.9                | 160.4       | 64.4                    | 768.0             |
| 60°                          | 89.1       | 92.4                 | 103.6                | 120.9                | 128.5                | 124.9                | 123.9       | 53.5                    | 821.6             |
| 65°                          | 74.6       | 76.3                 | 82.5                 | 95.4                 | 99.4                 | 91.8                 | 89.8        | 43.7                    | 865.3             |
| 70°                          | 64.8       | 65.1                 | 66.4                 | 73.4                 | 75.2                 | 65.0                 | 61.7        | 35.1                    | 900.3             |
| 75°                          | 56.7       | 56.1                 | 54.1                 | 55.3                 | 54.0                 | 43.4                 | 39.3        | 27.4                    | 927.8             |
| 80°                          | 48.3       | 47.2                 | 43.9                 | 40.6                 | 36.4                 | 26.8                 | 21.9        | 20.7                    | 948.5             |
| 85°                          | 39.1       | 38.0                 | 34.5                 | 29.4                 | 22.9                 | 14.4                 | 9.1         | 14.9                    | 963.3             |
| 90°                          | 29.8       | 28.8                 | 25.7                 | 20.2                 | 13.1                 | 5.8                  | 0.8         | 9.9                     | 973.3             |
| 95°                          | 24.0       | 23.5                 | 21.4                 | 16.6                 | 9.9                  | 3.5                  | 0.7         | 7.9                     | 981.2             |
| 100°                         | 19.2       | 18.8                 | 17.3                 | 13.3                 | 7.4                  | 1.9                  | 0.6         | 6.2                     | 987.4             |
| 105°                         | 15.1       | 14.8                 | 13.6                 | 10.2                 | 5.0                  | 0.8                  | 0.6         | 4.6                     | 992.0             |
| 110°                         | 11.8       | 11.3                 | 10.2                 | 7.3                  | 2.9                  | 0.6                  | 0.6         | 3.3                     | 995.3             |
| 115°                         | 9.0        | 8.5                  | 7.3                  | 4.7                  | 1.4                  | 0.7                  | 0.7         | 2.3                     | 997.6             |
| 120°                         | 6.6        | 6.1                  | 4.9                  | 2.7                  | 0.8                  | 0.7                  | 0.7         | 1.5                     | 999.1             |
| 125°                         | 4.4        | 4.0                  | 2.9                  | 1.3                  | 0.7                  | 0.8                  | 0.8         | 0.9                     | 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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|--|---|------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <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                  | 19.7 | 21.3 | 20.0 | 21.6 | 22.0               | 21.6 | 23.2 | 21.9 | 23.5 | 23.8 |
|                              | 3H                  | 20.9 | 22.3 | 21.2 | 22.7 | 23.0               | 22.6 | 24.1 | 23.0 | 24.4 | 24.7 |
|                              | 4H                  | 21.5 | 22.9 | 21.9 | 23.3 | 23.7               | 22.9 | 24.3 | 23.3 | 24.7 | 25.0 |
|                              | 6H                  | 22.3 | 23.6 | 22.7 | 24.0 | 24.3               | 23.2 | 24.5 | 23.6 | 24.8 | 25.2 |
|                              | 8H                  | 22.7 | 23.9 | 23.1 | 24.3 | 24.7               | 23.3 | 24.5 | 23.7 | 24.9 | 25.3 |
|                              | 12H                 | 23.1 | 24.2 | 23.5 | 24.6 | 25.0               | 23.3 | 24.5 | 23.8 | 24.9 | 25.3 |
| 4H                           | 2H                  | 20.5 | 21.9 | 20.9 | 22.3 | 22.6               | 22.0 | 23.4 | 22.4 | 23.8 | 24.1 |
|                              | 3H                  | 21.9 | 23.1 | 22.3 | 23.4 | 23.9               | 23.3 | 24.5 | 23.7 | 24.9 | 25.3 |
|                              | 4H                  | 22.7 | 23.8 | 23.1 | 24.2 | 24.6               | 23.8 | 24.8 | 24.2 | 25.3 | 25.7 |
|                              | 6H                  | 23.6 | 24.5 | 24.1 | 25.0 | 25.4               | 24.1 | 25.1 | 24.6 | 25.5 | 26.0 |
|                              | 8H                  | 24.1 | 24.9 | 24.5 | 25.4 | 25.8               | 24.3 | 25.1 | 24.7 | 25.6 | 26.0 |
|                              | 12H                 | 24.6 | 25.3 | 25.0 | 25.8 | 26.3               | 24.4 | 25.1 | 24.9 | 25.6 | 26.1 |
| 8H                           | 4H                  | 23.1 | 24.0 | 23.6 | 24.4 | 24.9               | 24.1 | 24.9 | 24.5 | 25.4 | 25.8 |
|                              | 6H                  | 24.2 | 24.9 | 24.7 | 25.4 | 25.9               | 24.6 | 25.3 | 25.1 | 25.8 | 26.3 |
|                              | 8H                  | 24.8 | 25.4 | 25.3 | 25.9 | 26.4               | 24.8 | 25.4 | 25.3 | 25.9 | 26.4 |
|                              | 12H                 | 25.4 | 26.0 | 25.9 | 26.5 | 27.0               | 25.0 | 25.5 | 25.5 | 26.0 | 26.5 |
| 12H                          | 4H                  | 23.2 | 23.9 | 23.7 | 24.4 | 24.9               | 24.1 | 24.9 | 24.6 | 25.3 | 25.8 |
|                              | 6H                  | 24.3 | 24.9 | 24.8 | 25.4 | 25.9               | 24.7 | 25.3 | 25.2 | 25.8 | 26.3 |
|                              | 8H                  | 25.0 | 25.5 | 25.5 | 26.0 | 26.5               | 25.0 | 25.5 | 25.5 | 26.0 | 26.5 |

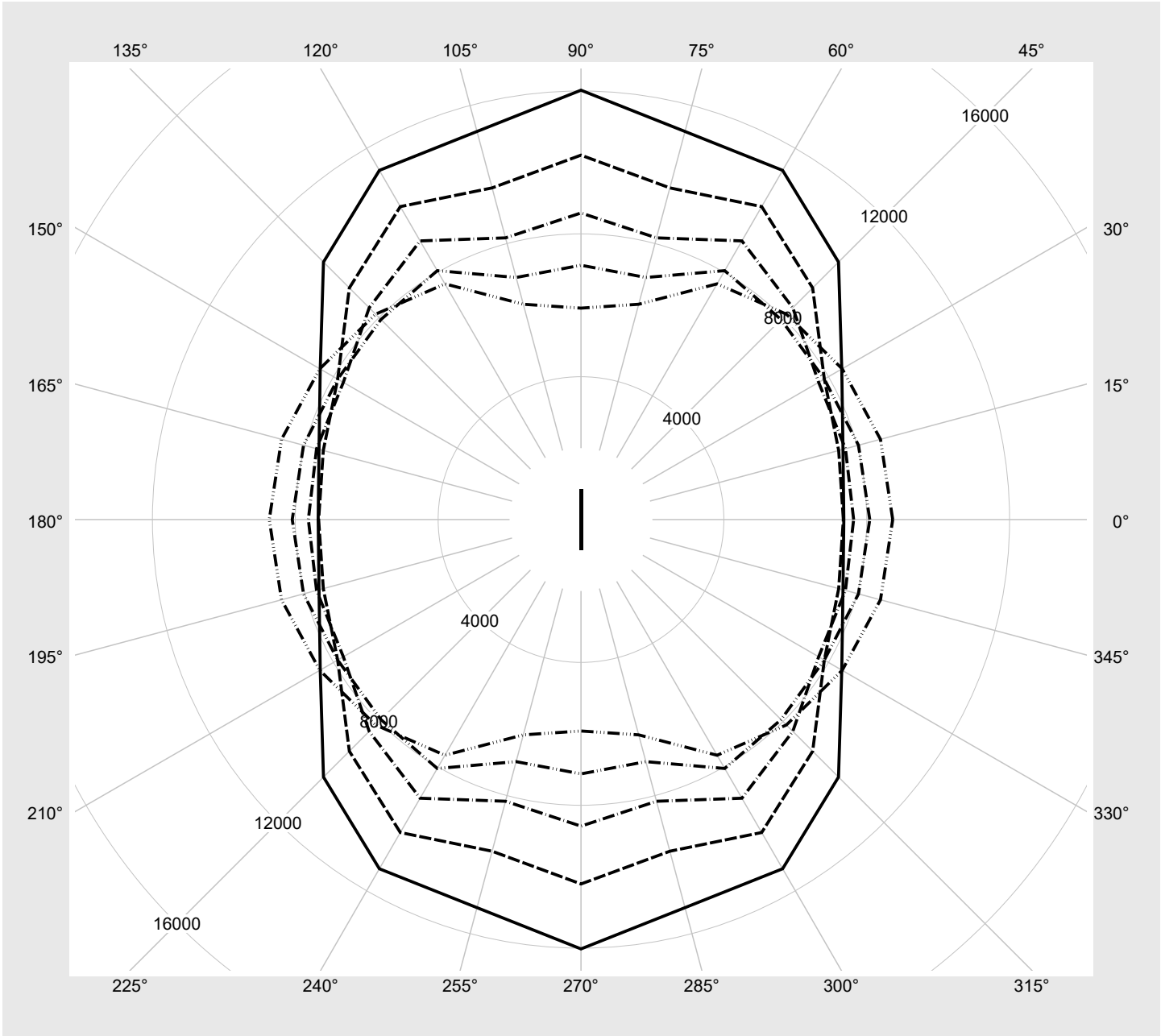
|                        |   |                                      |                 |                   |                     |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 1480</b> | <b>H(C0) = 13</b> | <b>H(C180) = 13</b> |
|                        |   |                                      | <b>B = 78</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°      | 11922.1                        | 12548.2                     | 14371.8                     | 17160.4                     | 19070.2                     | 18403.6                     | 17888.7     |  |
|          | 50°      | 10166.8                        | 10666.8                     | 12135.1                     | 14531.1                     | 16705.7                     | 17128.4                     | 17083.1     |  |
|          | 55°      | 8807.3                         | 9260.4                      | 10648.8                     | 12687.7                     | 14508.8                     | 15225.7                     | 15815.7     |  |
|          | 60°      | 7824.8                         | 8175.0                      | 9376.3                      | 11356.3                     | 12704.2                     | 13146.2                     | 14021.9     |  |
|          | 65°      | 7359.1                         | 7594.5                      | 8431.0                      | 10197.0                     | 11291.0                     | 11250.6                     | 12022.7     |  |
|          | 70°      | 7346.0                         | 7470.1                      | 7867.6                      | 9173.0                      | 10118.7                     | 9614.7                      | 10204.0     |  |
|          | 75°      | 7634.0                         | 7665.7                      | 7684.1                      | 8387.1                      | 9010.1                      | 8166.2                      | 8585.1      |  |
|          | 80°      | 8085.3                         | 8043.3                      | 7867.3                      | 7922.0                      | 8048.2                      | 7017.9                      | 7121.9      |  |
|          | 85°      | 8728.4                         | 8681.1                      | 8444.4                      | 8133.5                      | 7621.1                      | 6241.8                      | 5920.4      |  |

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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>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] | Power consumption [W] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|-----------------------|-----------------------|
|                 |                      |                           |                    | start of lifetime     | end of lifetime       | average               |
| 100             | 254                  | 254                       | 6530               | 42.6                  | 49.6                  | 46.1                  |
| 95              | 241                  | 252                       | 6216               | 40.4                  | 47.1                  | 43.8                  |
| 90              | 228                  | 250                       | 5876               | 38.2                  | 44.6                  | 41.4                  |
| 85              | 215                  | 248                       | 5552               | 36.1                  | 42.1                  | 39.1                  |
| 80              | 202                  | 246                       | 5234               | 34.0                  | 39.6                  | 36.8                  |
| 75              | 188                  | 243                       | 4887               | 31.7                  | 36.8                  | 34.2                  |
| 70              | 175                  | 240                       | 4558               | 29.6                  | 34.4                  | 32.0                  |
| 65              | 163                  | 238                       | 4257               | 27.6                  | 32.1                  | 29.8                  |
| 60              | 150                  | 235                       | 3928               | 25.7                  | 29.6                  | 27.6                  |
| 55              | 137                  | 231                       | 3597               | 23.6                  | 27.2                  | 25.4                  |
| 50              | 124                  | 228                       | 3262               | 21.5                  | 24.8                  | 23.2                  |
| 45              | 111                  | 224                       | 2931               | 19.5                  | 22.4                  | 21.0                  |
| 40              | 99                   | 219                       | 2619               | 17.5                  | 20.2                  | 18.8                  |
| 35              | 86                   | 214                       | 2278               | 15.4                  | 17.7                  | 16.6                  |
| 30              | 74                   | 209                       | 1964               | 13.6                  | 15.5                  | 14.6                  |
| 25              | 62                   | 202                       | 1645               | 11.7                  | 13.3                  | 12.5                  |
| 20              | 49                   | 194                       | 1297               | 9.7                   | 11.0                  | 10.4                  |
| 15              | 37                   | 183                       | 977                | 7.9                   | 8.9                   | 8.4                   |
| 10              | 25                   | 169                       | 652                | 6.0                   | 6.7                   | 6.4                   |
| 5               | 13                   | 145                       | 333                | 4.2                   | 4.5                   | 4.4                   |
| 2               | 6                    | 117                       | 147                | 3.1                   | 3.3                   | 3.2                   |