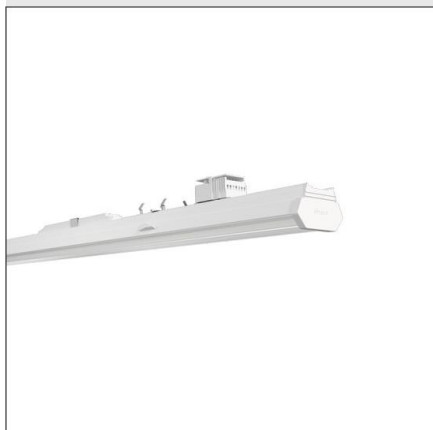


## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 11 Protected**

**Bestell-Nr.: 51TP12DN495G**  
**EAN: 4058352918494**

**LP-Nummer**  
**58524\_265**



**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 9980 lm  
 Systemleistung = 57.1 W  
 Lichtausbeute = 174.8 lm/W

**Seriendokumentation**  
**14.09.2023**

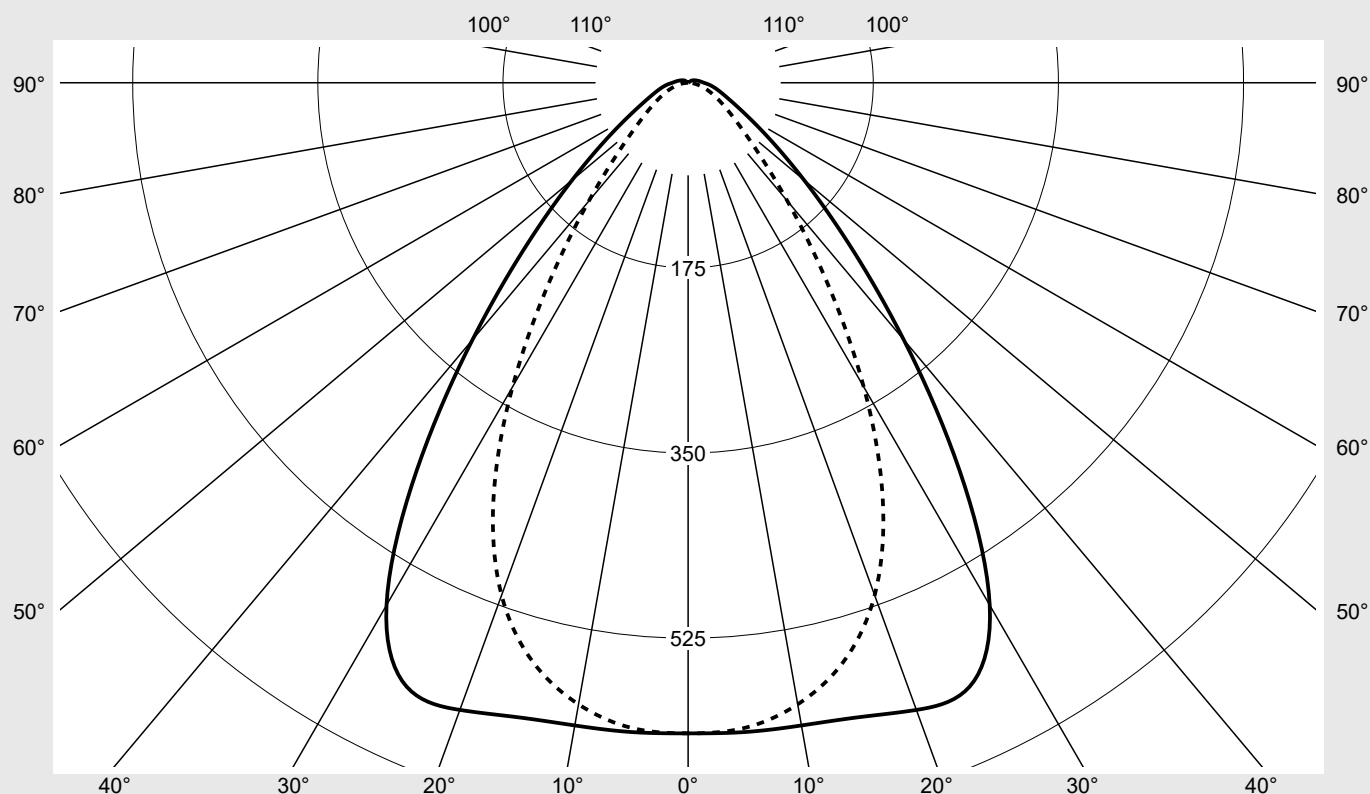
**sITeco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 631 cd/klm**



**Klassifizierungen**

DIN 5040 A 5 1  
 CIE N1=73 N2=92 N3=98  
 N4=99 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  98,6%  
 $\phi_o$  1,4%

**Messbedingungen**

DIN EN 13032 und DIN 5032

## Lichttechnischer Prüfbefund

|  |   |                                      |
|--|---|--------------------------------------|
| <b>Familie</b><br><b>Licross® 11 Protected</b> | <b>Bestell-Nr.: 51TP12DN495G</b><br><b>EAN: 4058352918494</b> | <b>LP-Nummer</b><br><b>58524_265</b> |
| <b>Wertetabelle Lichtstärkemessung</b>         |   | <b>Maximale Lichtstärke</b>          |
|  |   | <b>sITeco</b>                        |

| C-<br>Ebenen          | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-Zone             | Summe<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° |             |                      |                   |
| Lichtstärke in cd/klm |            |                      |                      |                      |                      |                      |             | Lichtstrom in lm/klm |                   |
| γ                     |            |                      |                      |                      |                      |                      |             |                      |                   |
| 0°                    | 615.0      | 615.0                | 615.0                | 615.0                | 615.0                | 615.0                | 615.0       | 3.7                  | 3.7               |
| 5°                    | 616.1      | 614.1                | 609.7                | 611.1                | 612.9                | 611.9                | 612.2       | 29.3                 | 32.9              |
| 10°                   | 616.9      | 615.1                | 606.4                | 602.8                | 600.3                | 597.0                | 596.6       | 57.6                 | 90.5              |
| 15°                   | 620.9      | 617.8                | 600.9                | 587.5                | 576.7                | 568.6                | 566.8       | 83.8                 | 174.3             |
| 20°                   | 630.8      | 623.5                | 591.7                | 561.2                | 536.7                | 520.1                | 515.5       | 106.4                | 280.7             |
| 25°                   | 629.8      | 620.7                | 576.3                | 523.2                | 476.9                | 445.6                | 435.5       | 122.6                | 403.3             |
| 30°                   | 570.2      | 568.9                | 534.3                | 469.6                | 398.0                | 348.4                | 331.9       | 126.5                | 529.9             |
| 35°                   | 447.2      | 456.9                | 450.2                | 394.1                | 307.5                | 246.5                | 227.0       | 114.9                | 644.8             |
| 40°                   | 317.0      | 331.0                | 344.1                | 303.2                | 220.2                | 163.1                | 146.0       | 93.6                 | 738.3             |
| 45°                   | 213.9      | 226.3                | 244.1                | 214.7                | 147.7                | 105.6                | 94.0        | 70.6                 | 808.9             |
| 50°                   | 143.1      | 152.0                | 166.9                | 144.8                | 97.7                 | 70.8                 | 64.1        | 51.5                 | 860.4             |
| 55°                   | 96.6       | 102.1                | 111.9                | 95.1                 | 64.8                 | 49.7                 | 46.3        | 37.0                 | 897.4             |
| 60°                   | 67.0       | 69.6                 | 74.2                 | 63.4                 | 44.8                 | 36.0                 | 34.5        | 26.8                 | 924.2             |
| 65°                   | 49.0       | 49.5                 | 50.0                 | 42.8                 | 32.0                 | 26.6                 | 25.7        | 19.7                 | 943.9             |
| 70°                   | 37.9       | 37.0                 | 34.4                 | 29.4                 | 23.3                 | 19.5                 | 18.8        | 14.8                 | 958.7             |
| 75°                   | 30.5       | 28.7                 | 24.6                 | 20.4                 | 16.6                 | 13.6                 | 12.7        | 11.1                 | 969.8             |
| 80°                   | 24.8       | 22.7                 | 18.1                 | 14.1                 | 11.2                 | 8.8                  | 7.6         | 8.2                  | 978.0             |
| 85°                   | 19.7       | 17.8                 | 13.4                 | 9.8                  | 7.1                  | 4.8                  | 3.4         | 5.9                  | 983.8             |
| 90°                   | 14.9       | 13.4                 | 9.7                  | 6.4                  | 4.0                  | 1.9                  | 0.4         | 3.9                  | 987.8             |
| 95°                   | 12.2       | 11.1                 | 8.2                  | 5.4                  | 3.1                  | 1.2                  | 0.3         | 3.2                  | 991.0             |
| 100°                  | 10.0       | 9.2                  | 6.9                  | 4.5                  | 2.4                  | 0.7                  | 0.3         | 2.6                  | 993.6             |
| 105°                  | 8.2        | 7.6                  | 5.7                  | 3.6                  | 1.7                  | 0.4                  | 0.3         | 2.1                  | 995.6             |
| 110°                  | 6.8        | 6.2                  | 4.6                  | 2.7                  | 1.1                  | 0.3                  | 0.3         | 1.6                  | 997.2             |
| 115°                  | 5.5        | 5.0                  | 3.7                  | 2.0                  | 0.7                  | 0.4                  | 0.4         | 1.2                  | 998.4             |
| 120°                  | 4.3        | 3.8                  | 2.7                  | 1.4                  | 0.6                  | 0.5                  | 0.5         | 0.9                  | 999.3             |
| 125°                  | 3.1        | 2.7                  | 1.8                  | 0.9                  | 0.6                  | 0.6                  | 0.6         | 0.6                  | 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            |

## Lichttechnischer Prüfbefund

|   |   |                               |
|---|---|-------------------------------|
| <b>Familie</b><br>Licross® 11 Protected | <b>Bestell-Nr.: 51TP12DN495G</b><br><b>EAN: 4058352918494</b> | <b>LP-Nummer</b><br>58524_265 |
|---|---|-------------------------------|

siteco

| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 21,3                                | 22,7 | 21,6 | 23,0 | 23,3 | 18,0                                  | 19,4 | 18,4 | 19,7 | 20,1 |
|                 | 3H  | 21,7                                | 22,9 | 22,1 | 23,3 | 23,6 | 18,4                                  | 19,6 | 18,7 | 20,0 | 20,3 |
|                 | 4H  | 21,9                                | 23,1 | 22,3 | 23,4 | 23,8 | 18,5                                  | 19,7 | 18,9 | 20,1 | 20,4 |
|                 | 6H  | 22,2                                | 23,3 | 22,6 | 23,6 | 24,0 | 18,6                                  | 19,7 | 19,0 | 20,1 | 20,5 |
|                 | 8H  | 22,4                                | 23,4 | 22,9 | 23,7 | 24,1 | 18,7                                  | 19,7 | 19,1 | 20,1 | 20,5 |
|                 | 12H | 22,6                                | 23,5 | 23,0 | 23,8 | 24,3 | 18,7                                  | 19,7 | 19,2 | 20,1 | 20,5 |
| 4H              | 2H  | 21,3                                | 22,5 | 21,7 | 22,9 | 23,2 | 18,5                                  | 19,7 | 18,9 | 20,0 | 20,4 |
|                 | 3H  | 21,9                                | 22,9 | 22,3 | 23,3 | 23,7 | 19,0                                  | 20,0 | 19,4 | 20,4 | 20,8 |
|                 | 4H  | 22,2                                | 23,1 | 22,6 | 23,5 | 23,9 | 19,2                                  | 20,1 | 19,7 | 20,5 | 21,0 |
|                 | 6H  | 22,6                                | 23,4 | 23,1 | 23,8 | 24,3 | 19,4                                  | 20,2 | 19,9 | 20,6 | 21,1 |
|                 | 8H  | 22,9                                | 23,5 | 23,3 | 24,0 | 24,5 | 19,5                                  | 20,2 | 20,0 | 20,6 | 21,1 |
|                 | 12H | 23,1                                | 23,7 | 23,6 | 24,2 | 24,7 | 19,6                                  | 20,2 | 20,0 | 20,6 | 21,1 |
| 8H              | 4H  | 22,2                                | 22,9 | 22,7 | 23,4 | 23,8 | 19,5                                  | 20,1 | 19,9 | 20,6 | 21,1 |
|                 | 6H  | 22,7                                | 23,3 | 23,2 | 23,8 | 24,3 | 19,7                                  | 20,3 | 20,2 | 20,8 | 21,3 |
|                 | 8H  | 23,0                                | 23,5 | 23,5 | 24,0 | 24,5 | 19,9                                  | 20,4 | 20,4 | 20,8 | 21,4 |
|                 | 12H | 23,4                                | 23,8 | 23,9 | 24,3 | 24,9 | 20,0                                  | 20,4 | 20,5 | 20,9 | 21,4 |
| 12H             | 4H  | 22,2                                | 22,8 | 22,7 | 23,3 | 23,8 | 19,5                                  | 20,1 | 20,0 | 20,6 | 21,1 |
|                 | 6H  | 22,7                                | 23,2 | 23,2 | 23,7 | 24,2 | 19,9                                  | 20,3 | 20,4 | 20,8 | 21,3 |
|                 | 8H  | 23,1                                | 23,5 | 23,6 | 24,0 | 24,5 | 20,0                                  | 20,4 | 20,5 | 20,9 | 21,4 |

|  |  |                        |                           |
|--|--|------------------------|---------------------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 1480, B = 78 | H(C0) = 13, H(C90) = 0 | H(C180) = 13, H(C270) = 0 |
|--|--|------------------------|---------------------------|

| C-Ebenen | $\gamma$ | Leuchtdichte 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°      |          | 22419.2                           | 23827.1                     | 26079.1                     | 23479.7                     | 16666.3                     | 12379.1                     | 11497.0     |  |
| 50°      |          | 16052.7                           | 17153.2                     | 19157.6                     | 17081.1                     | 11953.8                     | 9053.3                      | 8615.6      |  |
| 55°      |          | 11755.6                           | 12507.8                     | 13979.7                     | 12268.5                     | 8728.8                      | 7051.2                      | 6979.6      |  |
| 60°      |          | 8995.0                            | 9409.2                      | 10266.7                     | 9100.9                      | 6762.0                      | 5797.9                      | 5958.4      |  |
| 65°      |          | 7390.6                            | 7532.5                      | 7803.3                      | 6981.6                      | 5548.7                      | 4988.7                      | 5257.1      |  |
| 70°      |          | 6572.2                            | 6491.0                      | 6234.7                      | 5618.9                      | 4783.4                      | 4414.2                      | 4742.2      |  |
| 75°      |          | 6283.0                            | 5993.5                      | 5331.2                      | 4737.0                      | 4223.6                      | 3914.8                      | 4257.8      |  |
| 80°      |          | 6351.6                            | 5912.3                      | 4961.1                      | 4209.1                      | 3800.3                      | 3511.6                      | 3785.2      |  |
| 85°      |          | 6715.4                            | 6205.2                      | 5032.3                      | 4126.9                      | 3630.9                      | 3209.5                      | 3418.2      |  |

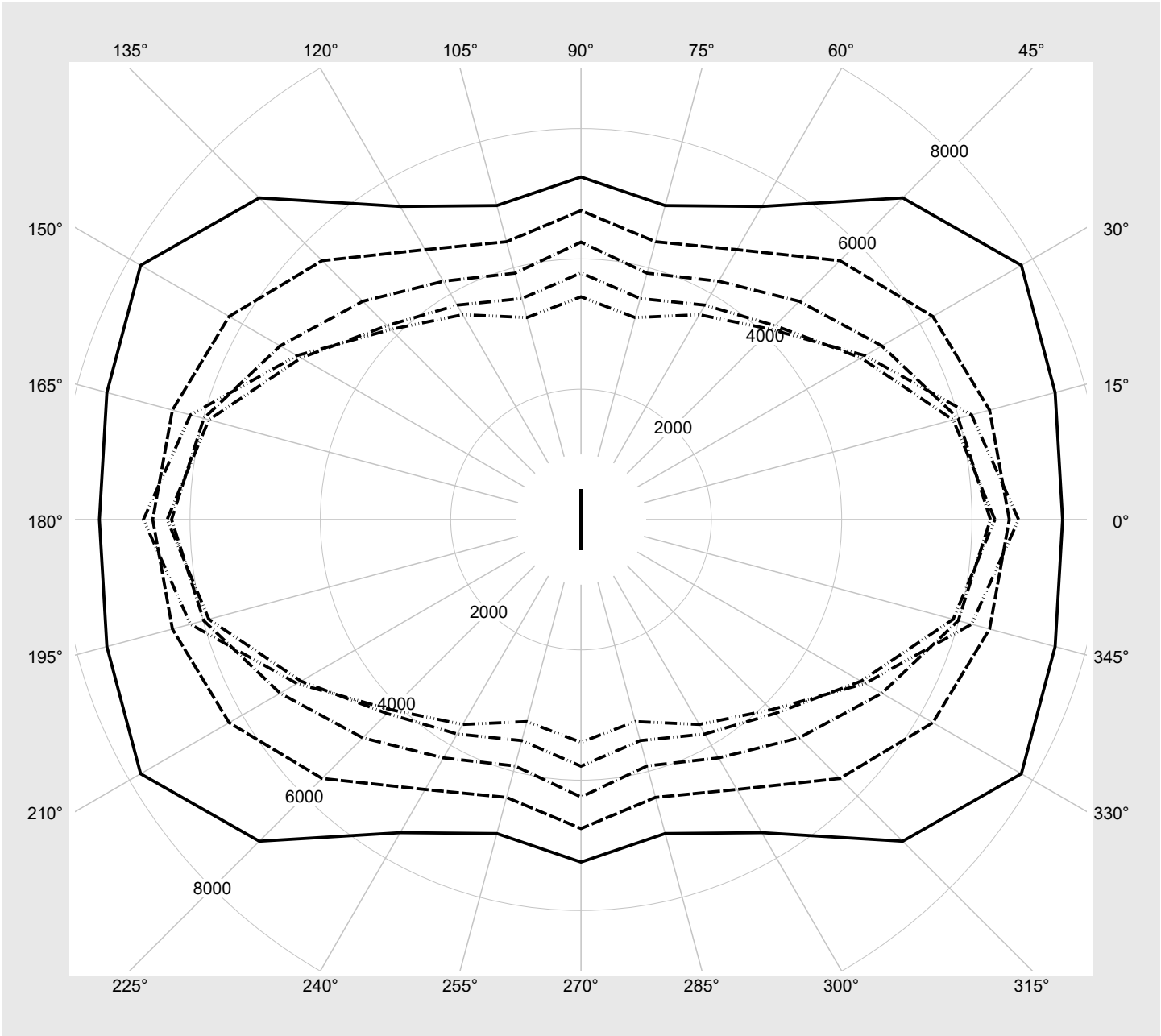
**Lichttechnischer Prüfbefund**

|   |   |                                      |
|---|---|--------------------------------------|
| <b>Familie</b><br>Licross® 11 Protected | <b>Bestell-Nr.: 51TP12DN495G</b><br><b>EAN: 4058352918494</b> | <b>LP-Nummer</b><br><b>58524_265</b> |
|---|---|--------------------------------------|

**Leuchtdichten in cd/m<sup>2</sup>**

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| $\gamma$ 65° | $\gamma$ 70° | $\gamma$ 75° | $\gamma$ 80° | $\gamma$ 85° |
|--------------|--------------|--------------|--------------|--------------|

**siteco**



## Lichttechnischer Prüfbefund

|   |   |                                      |
|---|---|--------------------------------------|
| <b>Familie</b><br>Licross® 11 Protected | <b>Bestell-Nr.: 51TP12DN495G</b><br><b>EAN: 4058352918494</b> | <b>LP-Nummer</b><br><b>58524_265</b> |
|---|---|--------------------------------------|

|                           |                           |               |
|---------------------------|---------------------------|---------------|
| <b>Dimmstufen-Tabelle</b> | Umgebungstemperatur: 25°C | <b>sITeco</b> |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 9980            | 57.1               |
| 95             | 240              | 252                     | 9474            | 53.8               |
| 90             | 226              | 250                     | 8964            | 50.7               |
| 85             | 213              | 248                     | 8483            | 47.7               |
| 80             | 200              | 245                     | 8000            | 44.8               |
| 75             | 186              | 243                     | 7475            | 41.7               |
| 70             | 173              | 240                     | 6982            | 38.7               |
| 65             | 160              | 237                     | 6485            | 35.9               |
| 60             | 147              | 234                     | 5984            | 33.0               |
| 55             | 134              | 231                     | 5480            | 30.1               |
| 50             | 122              | 227                     | 5007            | 27.5               |
| 45             | 109              | 223                     | 4493            | 24.7               |
| 40             | 96               | 218                     | 3975            | 22.0               |
| 35             | 84               | 213                     | 3492            | 19.5               |
| 30             | 72               | 208                     | 3002            | 17.0               |
| 25             | 60               | 201                     | 2512            | 14.5               |
| 20             | 47               | 192                     | 1975            | 11.7               |
| 15             | 36               | 182                     | 1517            | 9.4                |
| 10             | 24               | 168                     | 1013            | 6.9                |
| 5              | 12               | 142                     | 503             | 4.5                |
| 2              | 4                | 102                     | 162             | 3.0                |