

## Lichttechnischer Prüfbefund

**Familie**  
Licross® 21 Protected

**Bestell-Nr.: 52TP12CN4CXM**  
**EAN: 4058352903865**

**LP-Nummer**  
**58523\_184**

**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-Multilumen CLOi  
**Bemessungswerte** Nettolichtstrom = 12460 lm  
 Systemleistung = 68.9 W  
 Lichtausbeute = 180.8 lm/W

**Seriendokumentation**  
17.08.2023

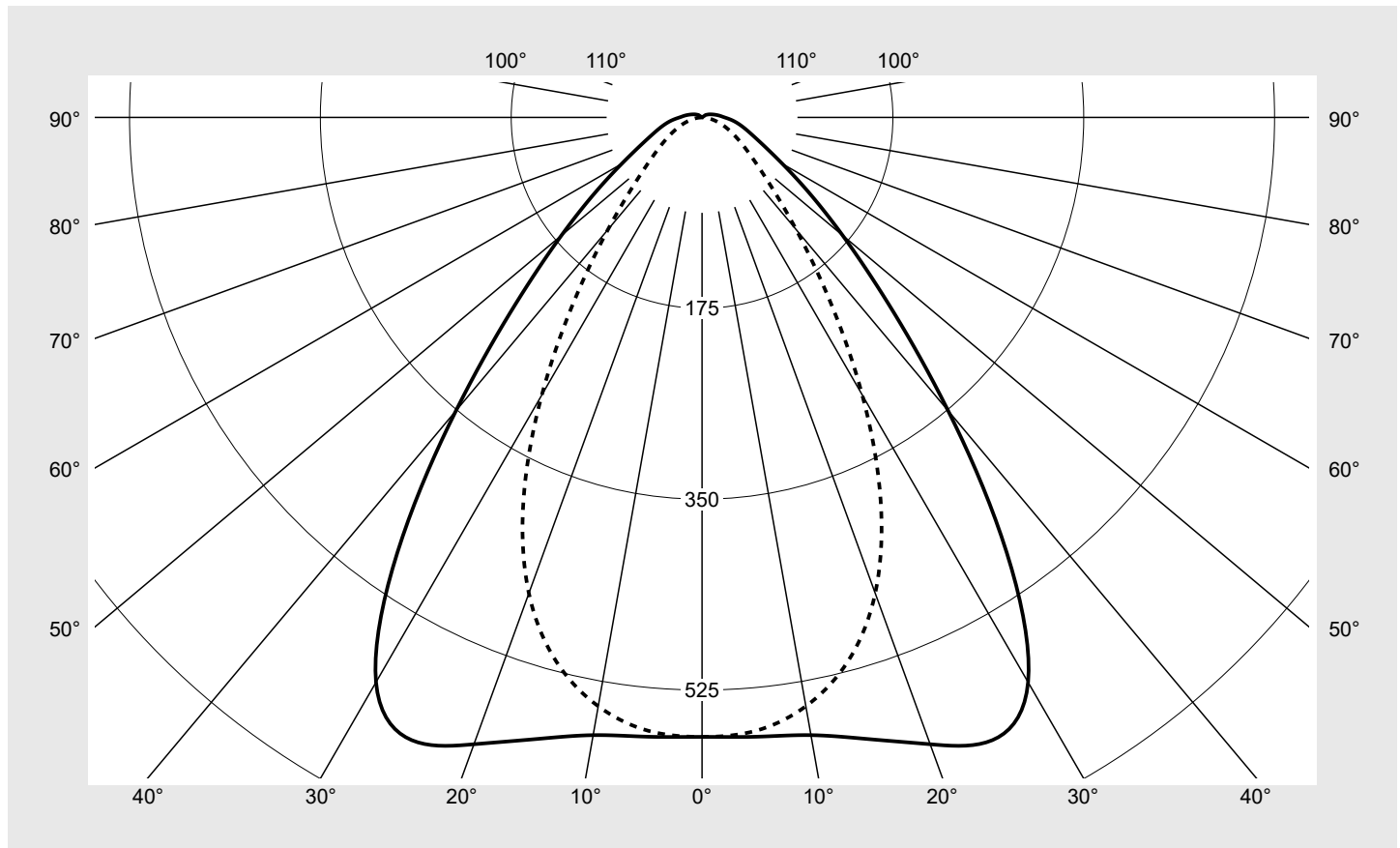
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 630 cd/klm



#### Klassifizierungen

DIN 5040 A 5 1  
 CIE N1=70 N2=91 N3=97  
 N4=98 N5=100

#### Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  98,3%  
 $\phi_o$  1,7%

#### Messbedingungen

DIN EN 13032 und DIN 5032

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|  |   |                                      |
|--|---|--------------------------------------|
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| <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°                    | 568.0      | 568.0                | 568.0                | 568.0                | 568.0                | 568.0                | 568.0       | 3.4                  | 3.4               |
| 5°                    | 570.0      | 568.0                | 563.9                | 564.4                | 565.6                | 564.2                | 564.6       | 27.0                 | 30.4              |
| 10°                   | 575.1      | 572.9                | 563.4                | 557.9                | 553.3                | 549.0                | 548.2       | 53.3                 | 83.7              |
| 15°                   | 590.1      | 586.0                | 566.8                | 548.5                | 532.2                | 519.9                | 516.5       | 78.2                 | 161.9             |
| 20°                   | 611.6      | 603.6                | 568.7                | 531.0                | 496.5                | 471.9                | 464.3       | 100.3                | 262.2             |
| 25°                   | 630.0      | 617.6                | 564.2                | 499.9                | 441.6                | 401.0                | 387.5       | 117.1                | 379.3             |
| 30°                   | 598.0      | 589.4                | 536.5                | 452.4                | 368.0                | 311.9                | 293.8       | 123.5                | 502.8             |
| 35°                   | 487.1      | 490.1                | 463.2                | 383.1                | 284.6                | 222.1                | 203.0       | 114.7                | 617.4             |
| 40°                   | 351.1      | 360.8                | 359.1                | 297.2                | 205.7                | 150.3                | 134.3       | 94.9                 | 712.3             |
| 45°                   | 241.7      | 250.7                | 257.1                | 211.9                | 140.4                | 100.6                | 89.9        | 72.8                 | 785.1             |
| 50°                   | 168.3      | 174.0                | 178.9                | 144.5                | 94.4                 | 69.8                 | 63.7        | 54.4                 | 839.5             |
| 55°                   | 118.9      | 121.8                | 123.3                | 97.4                 | 64.6                 | 50.4                 | 47.5        | 40.5                 | 880.0             |
| 60°                   | 85.1       | 85.8                 | 84.4                 | 66.1                 | 45.7                 | 37.4                 | 36.1        | 30.1                 | 910.0             |
| 65°                   | 63.8       | 62.6                 | 58.2                 | 45.7                 | 33.4                 | 28.1                 | 27.2        | 22.6                 | 932.7             |
| 70°                   | 50.4       | 47.7                 | 40.8                 | 32.1                 | 24.8                 | 20.7                 | 19.9        | 17.3                 | 949.9             |
| 75°                   | 41.3       | 37.6                 | 29.5                 | 22.7                 | 17.9                 | 14.5                 | 13.5        | 13.2                 | 963.2             |
| 80°                   | 34.0       | 30.0                 | 21.9                 | 15.9                 | 12.4                 | 9.4                  | 8.0         | 10.0                 | 973.1             |
| 85°                   | 27.2       | 23.7                 | 16.4                 | 11.2                 | 8.0                  | 5.3                  | 3.6         | 7.3                  | 980.4             |
| 90°                   | 20.7       | 17.9                 | 12.0                 | 7.4                  | 4.6                  | 2.2                  | 0.4         | 5.0                  | 985.4             |
| 95°                   | 16.6       | 14.7                 | 10.2                 | 6.3                  | 3.6                  | 1.3                  | 0.3         | 4.0                  | 989.4             |
| 100°                  | 13.2       | 11.9                 | 8.5                  | 5.2                  | 2.7                  | 0.8                  | 0.3         | 3.2                  | 992.6             |
| 105°                  | 10.4       | 9.5                  | 6.9                  | 4.1                  | 1.9                  | 0.4                  | 0.3         | 2.5                  | 995.1             |
| 110°                  | 8.2        | 7.4                  | 5.5                  | 3.1                  | 1.2                  | 0.3                  | 0.3         | 1.9                  | 997.0             |
| 115°                  | 6.5        | 5.8                  | 4.2                  | 2.2                  | 0.7                  | 0.4                  | 0.4         | 1.4                  | 998.4             |
| 120°                  | 4.9        | 4.3                  | 3.0                  | 1.4                  | 0.6                  | 0.5                  | 0.5         | 1.0                  | 999.4             |
| 125°                  | 3.5        | 3.0                  | 2.0                  | 0.9                  | 0.6                  | 0.5                  | 0.5         | 0.7                  | 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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|---|---|--------------------------------------|

| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 22,7                                | 24,2 | 23,1 | 24,5 | 24,8 | 18,6                                  | 20,0 | 18,9 | 20,3 | 20,7 |
|                 | 3H  | 23,3                                | 24,6 | 23,7 | 24,9 | 25,3 | 19,0                                  | 20,3 | 19,4 | 20,6 | 21,0 |
|                 | 4H  | 23,7                                | 24,9 | 24,1 | 25,2 | 25,6 | 19,2                                  | 20,4 | 19,6 | 20,8 | 21,1 |
|                 | 6H  | 24,1                                | 25,1 | 24,5 | 25,5 | 25,9 | 19,3                                  | 20,5 | 19,7 | 20,8 | 21,2 |
|                 | 8H  | 24,4                                | 25,3 | 24,8 | 25,7 | 26,1 | 19,4                                  | 20,5 | 19,8 | 20,9 | 21,3 |
|                 | 12H | 24,6                                | 25,5 | 25,1 | 25,9 | 26,3 | 19,4                                  | 20,4 | 19,9 | 20,8 | 21,3 |
| 4H              | 2H  | 22,8                                | 24,0 | 23,2 | 24,4 | 24,7 | 19,2                                  | 20,4 | 19,6 | 20,8 | 21,2 |
|                 | 3H  | 23,5                                | 24,5 | 23,9 | 24,9 | 25,3 | 19,8                                  | 20,8 | 20,2 | 21,2 | 21,6 |
|                 | 4H  | 24,0                                | 24,9 | 24,4 | 25,3 | 25,7 | 20,1                                  | 21,0 | 20,5 | 21,4 | 21,8 |
|                 | 6H  | 24,5                                | 25,3 | 25,0 | 25,7 | 26,2 | 20,3                                  | 21,1 | 20,7 | 21,5 | 22,0 |
|                 | 8H  | 24,9                                | 25,5 | 25,3 | 26,0 | 26,5 | 20,4                                  | 21,1 | 20,8 | 21,5 | 22,0 |
|                 | 12H | 25,2                                | 25,8 | 25,7 | 26,3 | 26,8 | 20,4                                  | 21,1 | 20,9 | 21,5 | 22,0 |
| 8H              | 4H  | 24,0                                | 24,7 | 24,4 | 25,1 | 25,6 | 20,4                                  | 21,1 | 20,8 | 21,5 | 22,0 |
|                 | 6H  | 24,6                                | 25,2 | 25,1 | 25,7 | 26,2 | 20,7                                  | 21,3 | 21,2 | 21,7 | 22,3 |
|                 | 8H  | 25,0                                | 25,6 | 25,5 | 26,0 | 26,6 | 20,8                                  | 21,3 | 21,3 | 21,8 | 22,4 |
|                 | 12H | 25,5                                | 26,0 | 26,1 | 26,5 | 27,0 | 20,9                                  | 21,4 | 21,5 | 21,9 | 22,4 |
| 12H             | 4H  | 24,0                                | 24,6 | 24,5 | 25,1 | 25,6 | 20,5                                  | 21,1 | 21,0 | 21,5 | 22,0 |
|                 | 6H  | 24,6                                | 25,1 | 25,1 | 25,6 | 26,2 | 20,8                                  | 21,3 | 21,4 | 21,8 | 22,3 |
|                 | 8H  | 25,1                                | 25,5 | 25,6 | 26,0 | 26,5 | 21,0                                  | 21,4 | 21,5 | 21,9 | 22,5 |

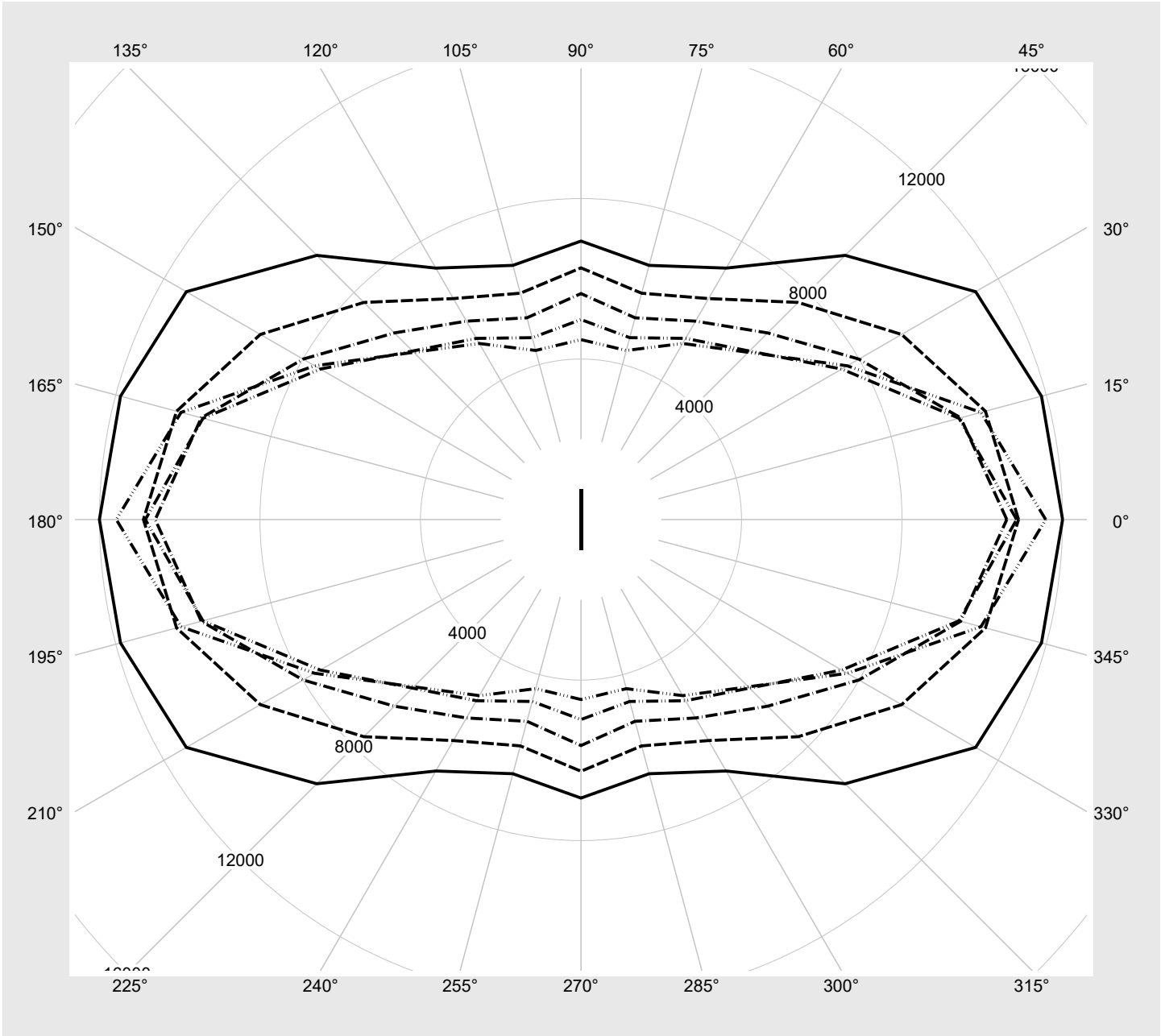
|  |   |            |              |            |             |
|--|---|------------|--------------|------------|-------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 1480 B = 78 | H(C0) = 13 | H(C180) = 13 | H(C90) = 0 | H(C270) = 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°      |          | 31624.6                           | 32955.8                     | 34299.4                     | 28930.0                     | 19781.1                     | 14721.6                     | 13727.8     |  |
| 50°      |          | 23578.9                           | 24517.2                     | 25638.2                     | 21275.5                     | 14416.7                     | 11139.9                     | 10699.2     |  |
| 55°      |          | 18069.4                           | 18642.3                     | 19243.9                     | 15685.4                     | 10861.3                     | 8928.7                      | 8943.0      |  |
| 60°      |          | 14254.2                           | 14490.4                     | 14571.6                     | 11853.9                     | 8618.3                      | 7508.2                      | 7784.7      |  |
| 65°      |          | 12001.2                           | 11880.0                     | 11356.3                     | 9310.6                      | 7236.0                      | 6557.7                      | 6940.4      |  |
| 70°      |          | 10903.3                           | 10433.4                     | 9226.3                      | 7652.8                      | 6359.1                      | 5839.5                      | 6272.2      |  |
| 75°      |          | 10610.3                           | 9795.4                      | 7996.8                      | 6577.7                      | 5709.2                      | 5205.2                      | 5631.5      |  |
| 80°      |          | 10856.7                           | 9752.8                      | 7501.3                      | 5938.7                      | 5213.2                      | 4692.9                      | 4983.8      |  |
| 85°      |          | 11580.1                           | 10318.2                     | 7662.9                      | 5894.9                      | 5066.5                      | 4362.9                      | 4484.3      |  |

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



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|                           |                           |               |
|---------------------------|---------------------------|---------------|
| <b>Multilumen-Tabelle</b> | Umgebungstemperatur: 25°C | <b>siteco</b> |
|---------------------------|---------------------------|---------------|

| DIP-Stufe | Schalterstellung |   |   | Lichtstrom<br>[lm] | Systemleistung<br>[W] | Systemleistung [W]<br>Lebensdauerende | Systemleistung [W]<br>Durchschnitt |
|-----------|------------------|---|---|--------------------|-----------------------|---------------------------------------|------------------------------------|
|           | 1                | 2 | 3 |                    |                       |                                       |                                    |
| 1         | A                | C | E | 12460              | 68.9                  | 83.2                                  | 76.1                               |
| 2         | A                | C | F | 12030              | 66.3                  | 80.2                                  | 73.2                               |
| 3         | A                | D | E | 11011              | 60.3                  | 72.4                                  | 66.4                               |
| 4         | A                | D | F | 9972               | 54.3                  | 65.0                                  | 59.6                               |
| 5         | B                | C | E | 8996               | 48.8                  | 58.1                                  | 53.4                               |
| 6         | B                | C | F | 8030               | 43.3                  | 51.8                                  | 47.6                               |
| 7         | B                | D | E | 7033               | 37.9                  | 45.0                                  | 41.4                               |
| 8         | B                | D | F | 6025               | 32.5                  | 38.3                                  | 35.4                               |