

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 21 Recessed**

**Bestell-Nr.: 52TL12CN4C5M**  
**EAN: 4058352890769**

**LP-Nummer**  
**59446\_45**



**Ausführung** Abdeckung satiniert, breit strahlend, hoher Sehkomfort

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-Multilumen CLOi

**Bemessungswerte** Nettolichtstrom = 12670 lm  
Systemleistung = 68.4 W  
Lichtausbeute = 185.2 lm/W

**Seriendokumentation**  
17.08.2023

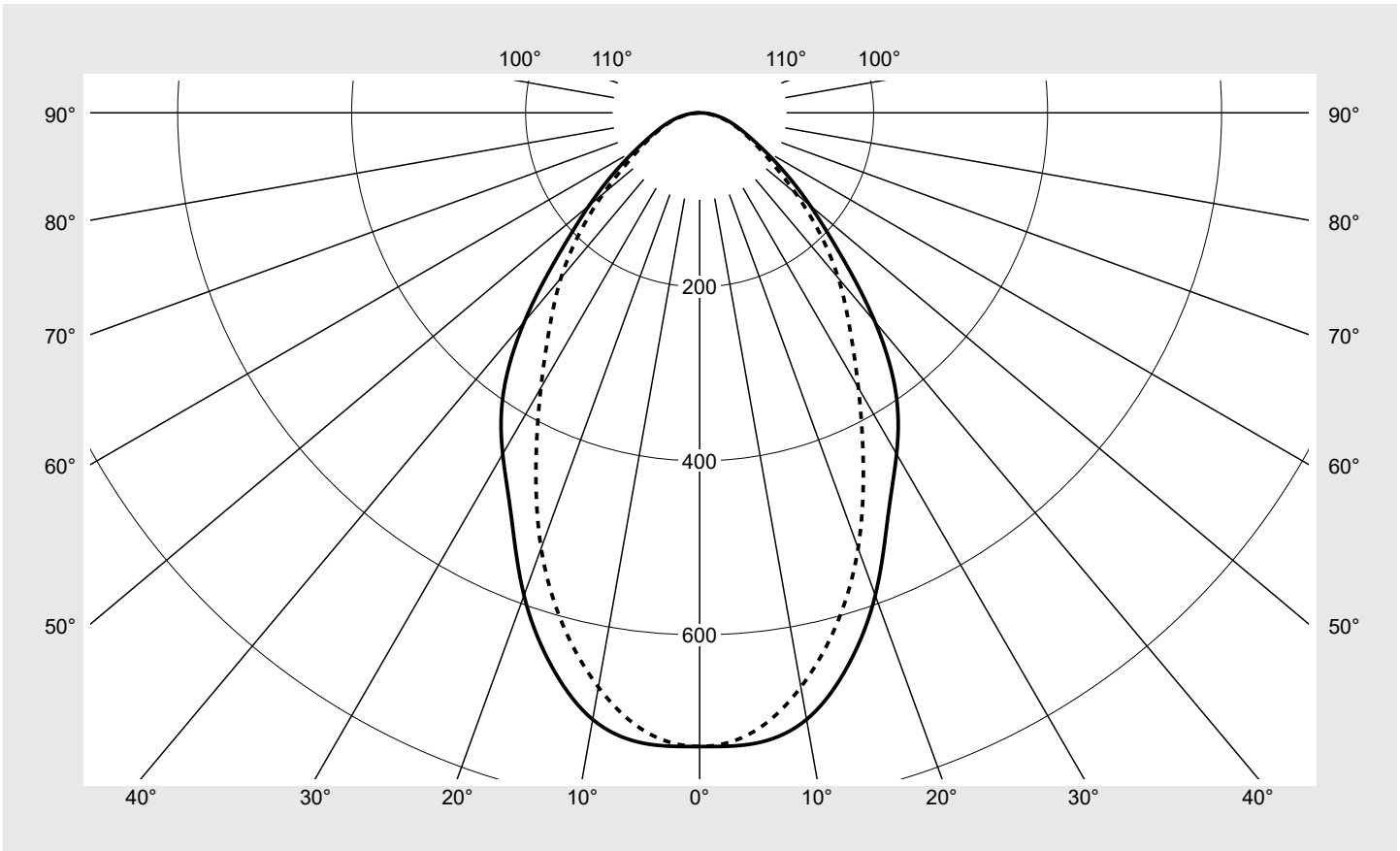
sitEco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 728 cd/klm



**Klassifizierungen**

DIN 5040 A 5 0  
CIE N1=69 N2=91 N3=98  
N4=100 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

**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  |            |                      |                      |                      |                      |                      |             |          |                   |
| 0°                    | 728.4      | 728.4                | 728.4                | 728.4                | 728.4                | 728.4                | 728.4       | 4.4      | 4.4               |
| 5°                    | 727.5      | 724.8                | 717.6                | 716.9                | 716.5                | 714.4                | 713.9       | 34.3     | 38.7              |
| 10°                   | 708.0      | 704.6                | 693.5                | 687.1                | 680.0                | 672.5                | 670.2       | 65.5     | 104.1             |
| 15°                   | 658.1      | 653.2                | 637.7                | 629.5                | 623.7                | 612.7                | 608.6       | 89.6     | 193.8             |
| 20°                   | 590.3      | 582.5                | 562.9                | 551.9                | 546.6                | 538.5                | 532.6       | 104.5    | 298.2             |
| 25°                   | 512.2      | 499.8                | 475.2                | 461.5                | 453.8                | 449.4                | 445.1       | 108.8    | 407.1             |
| 30°                   | 452.8      | 433.7                | 396.2                | 371.8                | 363.4                | 365.0                | 364.9       | 106.8    | 513.9             |
| 35°                   | 393.4      | 374.1                | 335.3                | 295.7                | 285.6                | 295.2                | 300.5       | 101.3    | 615.2             |
| 40°                   | 313.5      | 300.8                | 276.8                | 238.3                | 224.4                | 239.2                | 248.1       | 91.6     | 706.8             |
| 45°                   | 227.2      | 217.7                | 208.5                | 191.4                | 176.2                | 187.2                | 194.9       | 77.0     | 783.8             |
| 50°                   | 165.8      | 151.3                | 143.3                | 147.8                | 138.9                | 142.4                | 144.5       | 61.5     | 845.3             |
| 55°                   | 119.7      | 105.2                | 93.7                 | 108.9                | 109.4                | 104.2                | 103.2       | 47.4     | 892.7             |
| 60°                   | 84.3       | 73.0                 | 63.0                 | 78.5                 | 83.8                 | 75.4                 | 76.1        | 35.9     | 928.6             |
| 65°                   | 60.6       | 51.5                 | 43.5                 | 55.3                 | 61.5                 | 55.5                 | 56.9        | 27.0     | 955.6             |
| 70°                   | 44.8       | 36.9                 | 29.5                 | 37.3                 | 40.5                 | 40.0                 | 42.0        | 19.5     | 975.1             |
| 75°                   | 31.9       | 25.4                 | 19.2                 | 23.6                 | 27.6                 | 27.0                 | 29.3        | 13.5     | 988.6             |
| 80°                   | 20.2       | 15.5                 | 11.1                 | 12.8                 | 15.3                 | 15.6                 | 17.2        | 8.0      | 996.7             |
| 85°                   | 9.4        | 7.2                  | 4.9                  | 5.0                  | 5.8                  | 6.0                  | 6.3         | 3.3      | 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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| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 23,1                                | 24,6 | 23,5 | 24,9 | 25,2 | 22,8                                  | 24,2 | 23,1 | 24,5 | 24,8 |
|                 | 3H  | 23,8                                | 25,1 | 24,2 | 25,4 | 25,8 | 23,6                                  | 24,9 | 23,9 | 25,2 | 25,5 |
|                 | 4H  | 24,2                                | 25,4 | 24,6 | 25,7 | 26,1 | 23,9                                  | 25,1 | 24,3 | 25,5 | 25,8 |
|                 | 6H  | 24,5                                | 25,6 | 24,9 | 26,0 | 26,3 | 24,2                                  | 25,3 | 24,6 | 25,7 | 26,1 |
|                 | 8H  | 24,7                                | 25,7 | 25,1 | 26,0 | 26,5 | 24,3                                  | 25,3 | 24,8 | 25,7 | 26,1 |
|                 | 12H | 24,8                                | 25,7 | 25,2 | 26,1 | 26,5 | 24,4                                  | 25,3 | 24,8 | 25,7 | 26,1 |
| 4H              | 2H  | 23,4                                | 24,6 | 23,8 | 25,0 | 25,4 | 23,1                                  | 24,3 | 23,5 | 24,7 | 25,1 |
|                 | 3H  | 24,2                                | 25,2 | 24,6 | 25,6 | 26,0 | 24,1                                  | 25,1 | 24,5 | 25,5 | 25,9 |
|                 | 4H  | 24,6                                | 25,5 | 25,0 | 25,9 | 26,3 | 24,6                                  | 25,5 | 25,0 | 25,9 | 26,3 |
|                 | 6H  | 25,0                                | 25,7 | 25,4 | 26,2 | 26,6 | 24,9                                  | 25,7 | 25,4 | 26,1 | 26,6 |
|                 | 8H  | 25,2                                | 25,8 | 25,6 | 26,3 | 26,8 | 25,1                                  | 25,8 | 25,5 | 26,2 | 26,7 |
|                 | 12H | 25,3                                | 25,9 | 25,8 | 26,4 | 26,9 | 25,2                                  | 25,8 | 25,6 | 26,2 | 26,7 |
| 8H              | 4H  | 24,7                                | 25,4 | 25,2 | 25,8 | 26,3 | 24,7                                  | 25,4 | 25,2 | 25,8 | 26,3 |
|                 | 6H  | 25,1                                | 25,7 | 25,6 | 26,2 | 26,7 | 25,1                                  | 25,7 | 25,6 | 26,2 | 26,7 |
|                 | 8H  | 25,3                                | 25,8 | 25,8 | 26,3 | 26,8 | 25,3                                  | 25,8 | 25,8 | 26,3 | 26,8 |
|                 | 12H | 25,5                                | 25,9 | 26,0 | 26,4 | 27,0 | 25,4                                  | 25,8 | 25,9 | 26,3 | 26,9 |
| 12H             | 4H  | 24,7                                | 25,3 | 25,2 | 25,8 | 26,3 | 24,7                                  | 25,3 | 25,2 | 25,8 | 26,3 |
|                 | 6H  | 25,1                                | 25,6 | 25,7 | 26,1 | 26,6 | 25,2                                  | 25,6 | 25,7 | 26,1 | 26,6 |
|                 | 8H  | 25,4                                | 25,8 | 25,9 | 26,3 | 26,8 | 25,3                                  | 25,7 | 25,9 | 26,2 | 26,8 |

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

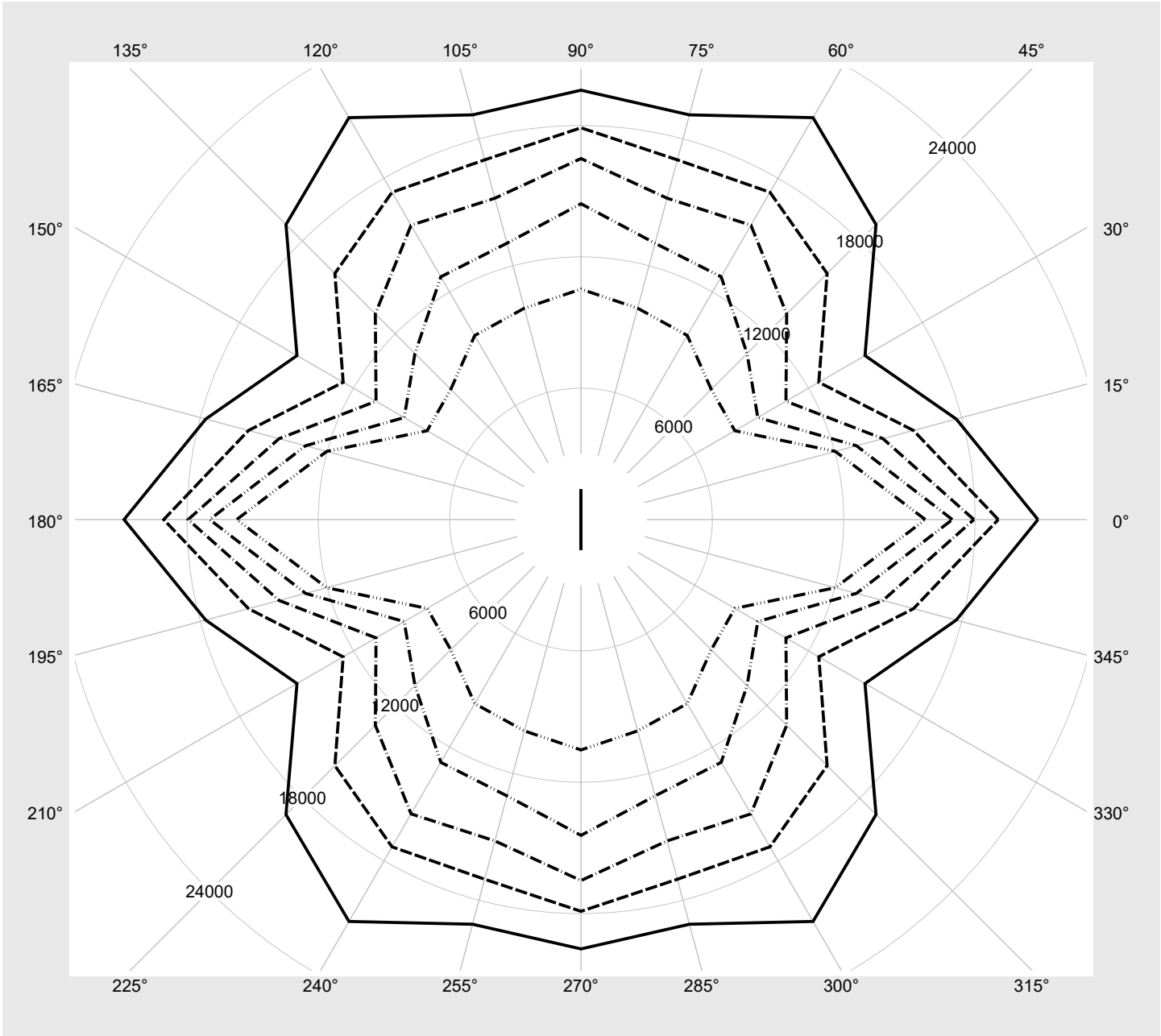
Lichttechnische Abmessungen in mm: **L = 1500**  
**B = 58**

| C-<br>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°          | 46802.9  | 44834.1                           | 42942.0                     | 39425.8                     | 36292.4                     | 38545.1                     | 40134.0                     |             |
| 50°          | 37572.2  | 34276.1                           | 32465.0                     | 33475.7                     | 31478.5                     | 32257.7                     | 32728.0                     |             |
| 55°          | 30399.2  | 26721.2                           | 23794.7                     | 27653.5                     | 27787.3                     | 26453.8                     | 26206.0                     |             |
| 60°          | 24566.1  | 21253.9                           | 18343.2                     | 22860.2                     | 24398.9                     | 21962.2                     | 22174.2                     |             |
| 65°          | 20874.5  | 17746.0                           | 14980.9                     | 19059.2                     | 21200.2                     | 19139.5                     | 19614.4                     |             |
| 70°          | 19062.2  | 15724.8                           | 12543.6                     | 15900.2                     | 17264.5                     | 17011.1                     | 17897.2                     |             |
| 75°          | 17947.2  | 14279.1                           | 10810.8                     | 13287.1                     | 15526.0                     | 15198.0                     | 16491.6                     |             |
| 80°          | 16963.6  | 13026.9                           | 9324.2                      | 10727.3                     | 12806.4                     | 13068.9                     | 14427.5                     |             |
| 85°          | 15728.6  | 12027.4                           | 8115.8                      | 8413.2                      | 9709.8                      | 9995.6                      | 10525.3                     |             |

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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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|                                        |                                                               |                                     |
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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 | 12670              | 68.4                  | 83.1                                  | 75.8                               |
| 2         | A                | C | F | 12156              | 65.4                  | 79.7                                  | 72.6                               |
| 3         | A                | D | E | 11116              | 59.4                  | 71.9                                  | 65.6                               |
| 4         | A                | D | F | 10140              | 53.9                  | 64.9                                  | 59.4                               |
| 5         | B                | C | E | 9080               | 47.9                  | 57.7                                  | 52.8                               |
| 6         | B                | C | F | 8072               | 42.4                  | 50.9                                  | 46.6                               |
| 7         | B                | D | E | 7065               | 37.1                  | 44.2                                  | 40.7                               |
| 8         | B                | D | F | 6025               | 31.6                  | 37.5                                  | 34.6                               |