

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 21 Protected**

**Bestell-Nr.: 52TD1BCN485G**  
**EAN: 4058352903254**

**LP-Nummer**  
**58522\_233**



**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-Multilumen CLOi  
**Bemessungswerte** Nettolichtstrom = 8570 lm  
 Systemleistung = 50.4 W  
 Lichtausbeute = 170 lm/W

**Seriendokumentation**  
17.08.2023

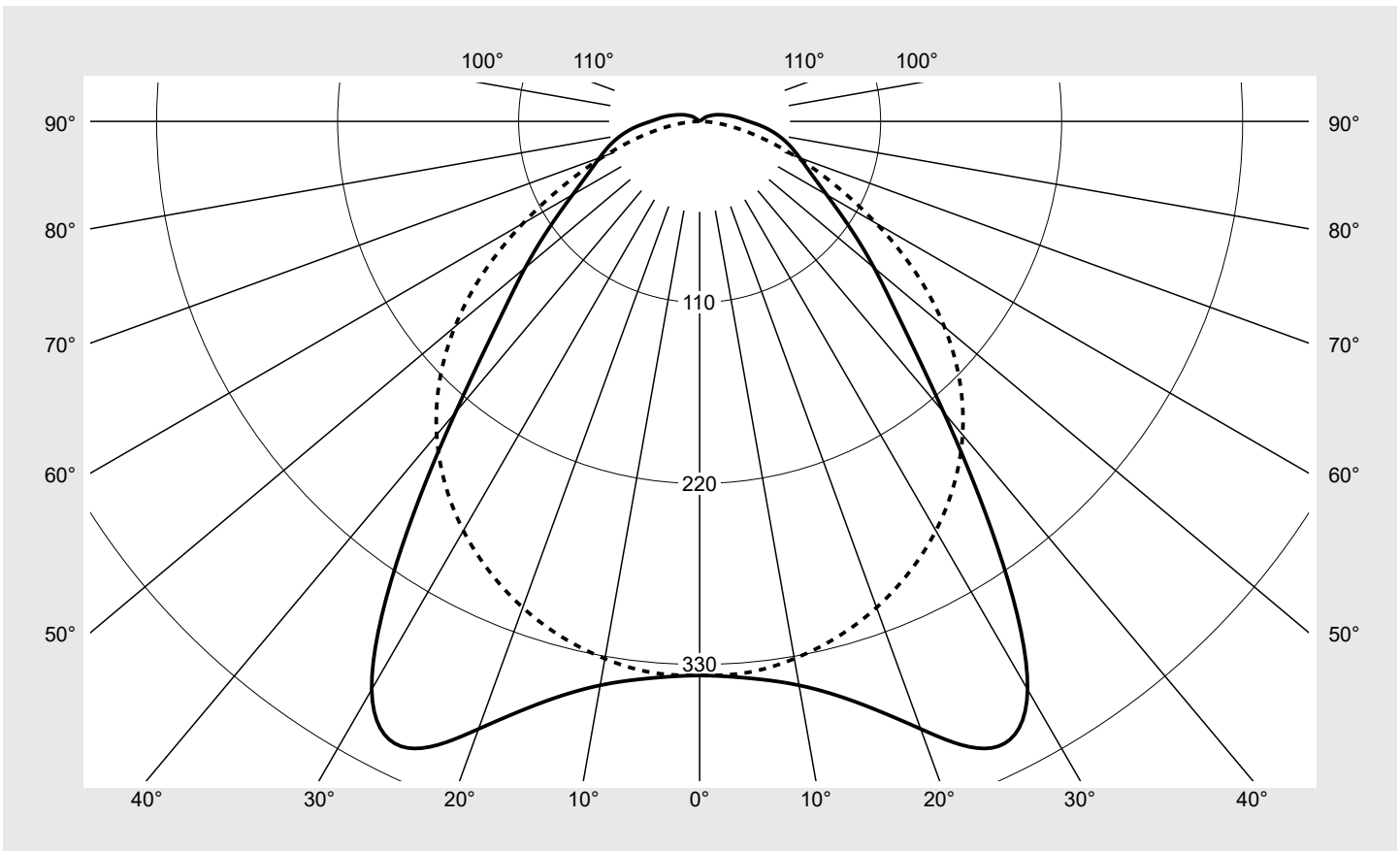
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 420 cd/klm



#### Klassifizierungen

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

#### Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  96,8%  
 $\phi_o$  3,2%

#### 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°                    | 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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|---|---|-------------------------------|

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

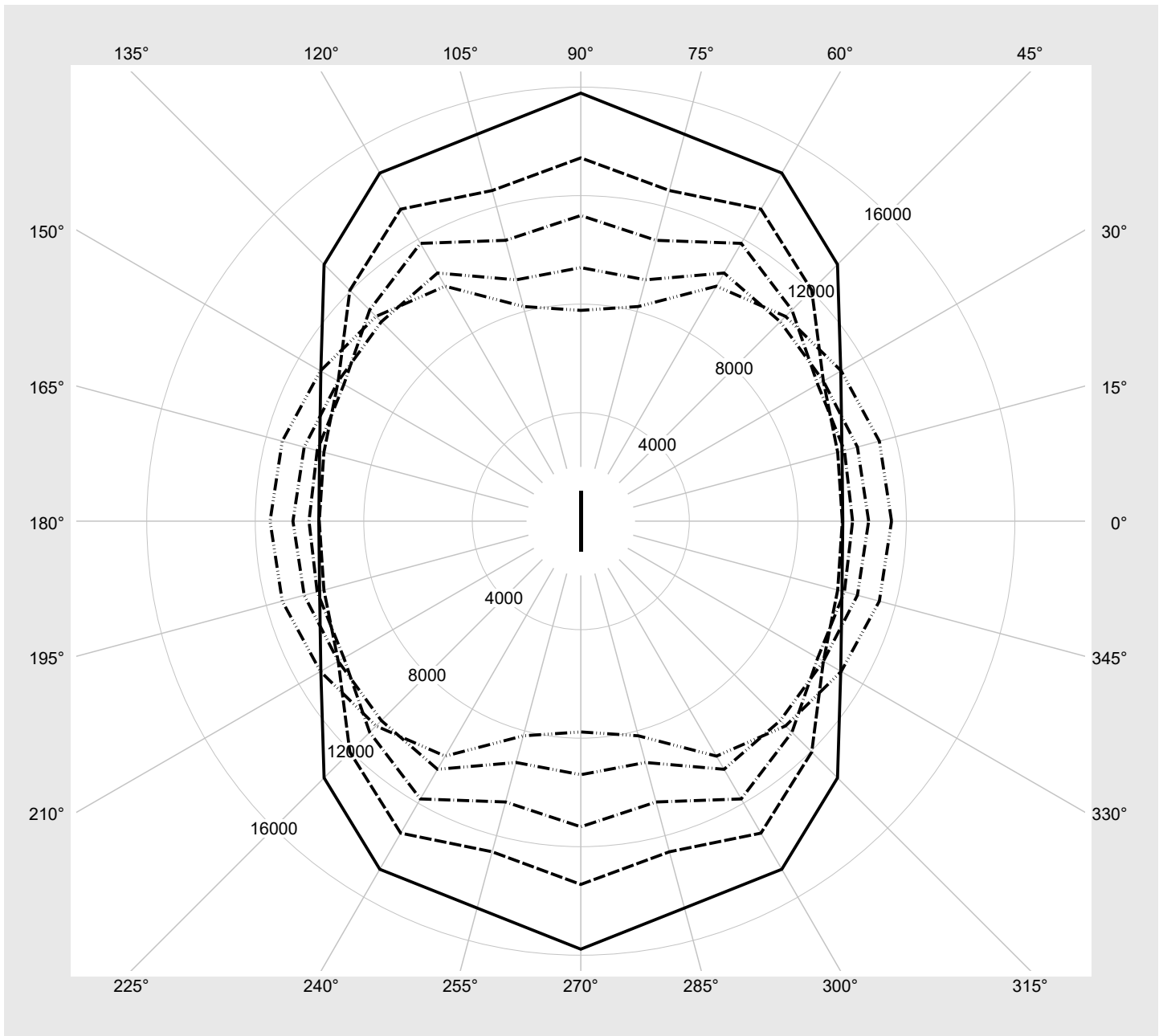
|  |   |            |              |            |             |
|--|---|------------|--------------|------------|-------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 1480 B = 78 | H(C0) = 13 | H(C180) = 13 | H(C90) = 0 | H(C270) = 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°      |          | 15646.6                           | 16468.4                     | 18861.6                     | 22521.4                     | 25027.8                     | 24152.9                     | 23477.2     |  |
| 50°      |          | 13342.9                           | 13999.1                     | 15926.2                     | 19070.7                     | 21924.7                     | 22479.4                     | 22419.9     |  |
| 55°      |          | 11558.7                           | 12153.3                     | 13975.5                     | 16651.3                     | 19041.4                     | 19982.2                     | 20756.6     |  |
| 60°      |          | 10269.3                           | 10728.8                     | 12305.5                     | 14904.1                     | 16673.0                     | 17253.1                     | 18402.3     |  |
| 65°      |          | 9658.1                            | 9967.0                      | 11064.8                     | 13382.6                     | 14818.4                     | 14765.3                     | 15778.6     |  |
| 70°      |          | 9641.0                            | 9803.8                      | 10325.4                     | 12038.7                     | 13279.8                     | 12618.4                     | 13391.7     |  |
| 75°      |          | 10018.9                           | 10060.5                     | 10084.7                     | 11007.3                     | 11824.9                     | 10717.4                     | 11267.1     |  |
| 80°      |          | 10611.2                           | 10556.1                     | 10325.1                     | 10396.8                     | 10562.5                     | 9210.3                      | 9346.8      |  |
| 85°      |          | 11455.2                           | 11393.1                     | 11082.4                     | 10674.5                     | 10001.9                     | 8191.8                      | 7770.0      |  |

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|  |   |                                      |
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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 | 8570               | 50.4                  | 60.5                                  | 55.4                               |
| 2         | A                | C | F | 8024               | 47.0                  | 56.1                                  | 51.6                               |
| 3         | A                | D | E | 7541               | 43.9                  | 52.6                                  | 48.2                               |
| 4         | A                | D | F | 7047               | 41.0                  | 48.7                                  | 44.8                               |
| 5         | B                | C | E | 6627               | 38.4                  | 45.6                                  | 42.0                               |
| 6         | B                | C | F | 6133               | 35.4                  | 41.7                                  | 38.6                               |
| 7         | B                | D | E | 5703               | 32.8                  | 38.8                                  | 35.8                               |
| 8         | B                | D | F | 5199               | 29.9                  | 35.4                                  | 32.6                               |