

## Lichttechnischer Prüfbefund

**Familie**  
Licross® 21 Performance

**Bestell-Nr.:** 52TM16CN445G  
**EAN:** 4058352903421

**LP-Nummer**  
58520\_390



**Ausführung** Abdeckung satiniert, direkt-/ indirekt strahlend,  
UGR≤19 (L65≤3000cd/m<sup>2</sup>)

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-Multilumen CLOi

**Bemessungswerte** Nettolichtstrom = 4500 lm  
Systemleistung = 24.1 W  
Lichtausbeute = 186.7 lm/W

**Seriendokumentation**  
20.02.2024

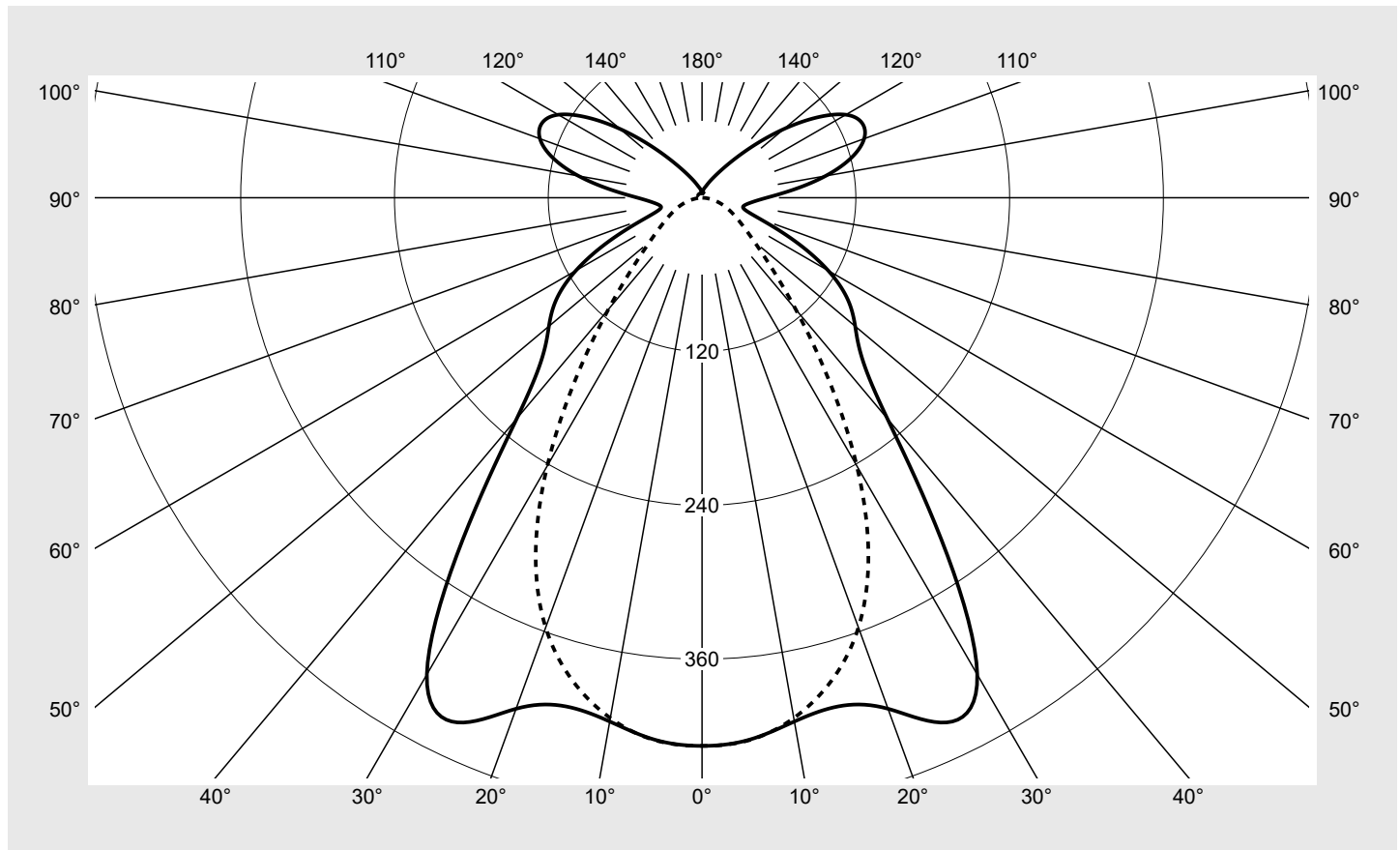
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 452 cd/klm



**Klassifizierungen**

DIN 5040 B 5 1  
CIE N1=65 N2=88 N3=96  
N4=79 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  79,3%  
 $\phi_o$  20,7%

**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° |             |          |                   |
| γ                     |            |                      |                      |                      |                      |                      |             |          |                   |
| Lichtstärke in cd/klm |            |                      |                      |                      |                      |                      |             |          |                   |
| Lichtstrom in lm/klm  |            |                      |                      |                      |                      |                      |             |          |                   |
| 0°                    | 427.7      | 427.7                | 427.7                | 427.7                | 427.7                | 427.7                | 427.7       | 2.6      | 2.6               |
| 5°                    | 424.4      | 422.4                | 420.2                | 422.1                | 424.3                | 424.4                | 424.8       | 20.2     | 22.8              |
| 10°                   | 414.9      | 412.5                | 408.9                | 409.5                | 411.2                | 411.6                | 412.2       | 39.1     | 61.9              |
| 15°                   | 410.8      | 406.7                | 398.1                | 393.2                | 390.9                | 389.7                | 390.1       | 56.3     | 118.2             |
| 20°                   | 424.3      | 415.5                | 394.5                | 375.8                | 364.0                | 357.7                | 356.8       | 71.8     | 190.0             |
| 25°                   | 451.7      | 439.9                | 403.9                | 360.3                | 329.2                | 311.6                | 307.2       | 85.9     | 275.8             |
| 30°                   | 429.5      | 430.9                | 412.5                | 347.4                | 284.5                | 251.0                | 241.5       | 94.2     | 370.0             |
| 35°                   | 325.6      | 344.5                | 379.3                | 329.0                | 231.5                | 183.8                | 171.0       | 89.9     | 460.0             |
| 40°                   | 224.9      | 238.5                | 293.1                | 289.7                | 177.2                | 125.7                | 113.8       | 76.0     | 535.9             |
| 45°                   | 176.4      | 174.8                | 199.5                | 224.7                | 128.0                | 84.3                 | 75.7        | 60.6     | 596.5             |
| 50°                   | 156.0      | 144.3                | 136.6                | 154.2                | 90.2                 | 58.9                 | 53.2        | 48.2     | 644.7             |
| 55°                   | 139.0      | 122.9                | 98.4                 | 99.7                 | 63.9                 | 43.4                 | 39.8        | 38.7     | 683.4             |
| 60°                   | 113.7      | 99.1                 | 72.2                 | 64.7                 | 46.3                 | 33.0                 | 30.8        | 30.7     | 714.1             |
| 65°                   | 79.7       | 70.2                 | 51.6                 | 43.8                 | 34.5                 | 25.6                 | 24.0        | 23.0     | 737.1             |
| 70°                   | 47.7       | 43.4                 | 35.6                 | 31.1                 | 26.2                 | 19.7                 | 18.2        | 16.2     | 753.3             |
| 75°                   | 33.9       | 31.2                 | 26.1                 | 23.2                 | 19.9                 | 14.4                 | 12.7        | 12.2     | 765.5             |
| 80°                   | 33.7       | 30.7                 | 23.7                 | 18.2                 | 15.1                 | 9.9                  | 7.5         | 10.6     | 776.1             |
| 85°                   | 39.3       | 35.6                 | 26.3                 | 17.2                 | 11.4                 | 6.2                  | 3.2         | 10.7     | 786.9             |
| 90°                   | 50.4       | 45.6                 | 32.3                 | 18.9                 | 10.0                 | 3.9                  | 0.6         | 12.4     | 799.3             |
| 95°                   | 71.3       | 63.5                 | 42.3                 | 22.5                 | 11.4                 | 4.6                  | 1.0         | 16.4     | 815.7             |
| 100°                  | 97.9       | 84.6                 | 52.5                 | 26.5                 | 12.9                 | 5.3                  | 1.6         | 20.8     | 836.6             |
| 105°                  | 120.7      | 101.7                | 62.6                 | 30.2                 | 14.2                 | 6.1                  | 2.4         | 24.4     | 860.9             |
| 110°                  | 134.6      | 112.6                | 69.4                 | 33.2                 | 15.3                 | 6.7                  | 2.9         | 26.3     | 887.2             |
| 115°                  | 137.8      | 115.5                | 72.0                 | 34.6                 | 16.0                 | 7.2                  | 3.2         | 26.1     | 913.3             |
| 120°                  | 129.6      | 108.9                | 68.7                 | 33.6                 | 15.7                 | 7.4                  | 3.5         | 23.8     | 937.1             |
| 125°                  | 109.1      | 92.2                 | 59.5                 | 30.3                 | 14.7                 | 7.4                  | 3.7         | 19.5     | 956.6             |
| 130°                  | 83.4       | 71.0                 | 47.4                 | 25.5                 | 13.2                 | 7.2                  | 3.7         | 14.5     | 971.2             |
| 135°                  | 58.6       | 50.3                 | 35.1                 | 20.5                 | 11.4                 | 6.8                  | 3.7         | 10.0     | 981.2             |
| 140°                  | 39.2       | 34.3                 | 25.3                 | 16.3                 | 9.8                  | 6.3                  | 3.7         | 6.7      | 987.9             |
| 145°                  | 26.6       | 23.8                 | 18.6                 | 13.0                 | 8.2                  | 5.4                  | 3.7         | 4.4      | 992.3             |
| 150°                  | 18.7       | 17.2                 | 14.2                 | 10.0                 | 6.9                  | 5.0                  | 3.7         | 2.9      | 995.2             |
| 155°                  | 13.8       | 12.8                 | 10.8                 | 7.8                  | 6.8                  | 4.4                  | 3.6         | 2.0      | 997.2             |
| 160°                  | 10.2       | 9.8                  | 7.9                  | 6.8                  | 5.6                  | 4.6                  | 3.5         | 1.3      | 998.5             |
| 165°                  | 8.2        | 7.8                  | 6.5                  | 5.6                  | 5.0                  | 4.1                  | 3.7         | 0.8      | 999.3             |
| 170°                  | 6.4        | 5.6                  | 4.7                  | 4.7                  | 5.0                  | 4.1                  | 3.9         | 0.5      | 999.8             |
| 175°                  | 4.2        | 3.7                  | 4.1                  | 4.1                  | 4.1                  | 4.2                  | 4.2         | 0.2      | 1000.0            |
| 180°                  | 3.7        | 3.7                  | 3.7                  | 3.7                  | 3.7                  | 3.7                  | 3.7         | 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  | 16,3                                | 17,6 | 16,9 | 18,1 | 18,8 | 12,5                                  | 13,8 | 13,1 | 14,3 | 15,0 |
|                 | 3H  | 16,9                                | 18,0 | 17,5 | 18,6 | 19,3 | 12,9                                  | 14,0 | 13,5 | 14,6 | 15,3 |
|                 | 4H  | 17,1                                | 18,1 | 17,7 | 18,7 | 19,4 | 13,1                                  | 14,2 | 13,7 | 14,8 | 15,5 |
|                 | 6H  | 17,3                                | 18,2 | 18,0 | 18,9 | 19,6 | 13,3                                  | 14,2 | 13,9 | 14,8 | 15,6 |
|                 | 8H  | 17,6                                | 18,4 | 18,3 | 19,0 | 19,8 | 13,2                                  | 14,1 | 13,9 | 14,8 | 15,5 |
|                 | 12H | 17,9                                | 18,6 | 18,6 | 19,3 | 20,1 | 13,3                                  | 14,1 | 13,9 | 14,8 | 15,5 |
| 4H              | 2H  | 16,3                                | 17,4 | 16,9 | 18,0 | 18,7 | 13,0                                  | 14,0 | 13,6 | 14,6 | 15,3 |
|                 | 3H  | 17,0                                | 17,8 | 17,6 | 18,5 | 19,3 | 13,5                                  | 14,4 | 14,2 | 15,0 | 15,8 |
|                 | 4H  | 17,2                                | 18,0 | 17,9 | 18,7 | 19,5 | 13,8                                  | 14,6 | 14,5 | 15,3 | 16,1 |
|                 | 6H  | 17,7                                | 18,3 | 18,4 | 19,0 | 19,9 | 14,0                                  | 14,7 | 14,7 | 15,4 | 16,2 |
|                 | 8H  | 18,0                                | 18,6 | 18,7 | 19,3 | 20,2 | 14,1                                  | 14,7 | 14,8 | 15,4 | 16,3 |
|                 | 12H | 18,5                                | 19,0 | 19,3 | 19,8 | 20,7 | 14,1                                  | 14,7 | 14,9 | 15,4 | 16,3 |
| 8H              | 4H  | 17,2                                | 17,8 | 17,9 | 18,5 | 19,4 | 14,0                                  | 14,6 | 14,7 | 15,3 | 16,1 |
|                 | 6H  | 17,8                                | 18,3 | 18,5 | 19,0 | 19,9 | 14,4                                  | 14,8 | 15,1 | 15,6 | 16,5 |
|                 | 8H  | 18,3                                | 18,7 | 19,0 | 19,5 | 20,3 | 14,5                                  | 15,0 | 15,3 | 15,7 | 16,6 |
|                 | 12H | 19,0                                | 19,4 | 19,8 | 20,2 | 21,1 | 14,6                                  | 15,0 | 15,4 | 15,8 | 16,7 |
| 12H             | 4H  | 17,1                                | 17,7 | 17,9 | 18,4 | 19,3 | 14,0                                  | 14,5 | 14,8 | 15,2 | 16,1 |
|                 | 6H  | 17,7                                | 18,2 | 18,5 | 18,9 | 19,8 | 14,5                                  | 14,9 | 15,2 | 15,6 | 16,6 |
|                 | 8H  | 18,3                                | 18,7 | 19,1 | 19,4 | 20,4 | 14,7                                  | 15,1 | 15,5 | 15,8 | 16,8 |

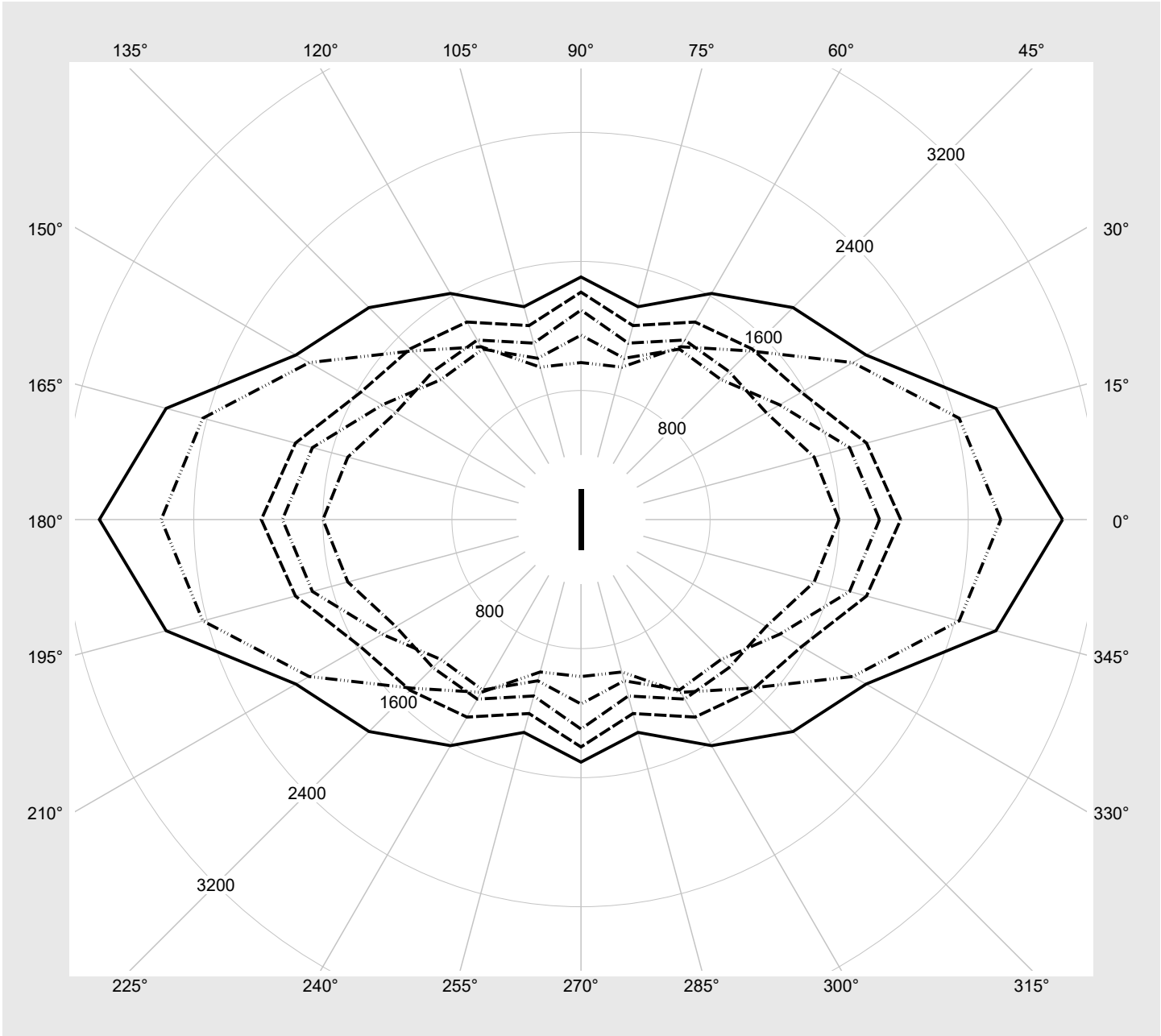
|  |  |                       |                          |
|--|--|-----------------------|--------------------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 1480 B = 115 | H(C0) = 36 H(C90) = 0 | H(C180) = 36 H(C270) = 0 |
|--|--|-----------------------|--------------------------|

| 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°      | 45°      | 5023.8                            | 5018.4                      | 5868.8                      | 6879.2                      | 4139.9                      | 2916.3                      | 2828.9      |  |
| 50°      | 50°      | 4673.3                            | 4361.9                      | 4245.2                      | 5019.1                      | 3127.8                      | 2210.6                      | 2187.0      |  |
| 55°      | 55°      | 4427.7                            | 3957.5                      | 3270.4                      | 3492.8                      | 2407.2                      | 1793.0                      | 1833.6      |  |
| 60°      | 60°      | 3898.2                            | 3440.1                      | 2596.9                      | 2473.4                      | 1928.0                      | 1532.5                      | 1628.5      |  |
| 65°      | 65°      | 2985.1                            | 2662.3                      | 2040.1                      | 1858.2                      | 1618.1                      | 1365.9                      | 1503.6      |  |
| 70°      | 70°      | 1981.6                            | 1832.2                      | 1577.3                      | 1497.1                      | 1413.8                      | 1244.8                      | 1409.5      |  |
| 75°      | 75°      | 1599.3                            | 1496.2                      | 1325.8                      | 1297.9                      | 1285.1                      | 1132.2                      | 1298.5      |  |
| 80°      | 80°      | 1850.5                            | 1723.3                      | 1422.0                      | 1227.1                      | 1220.0                      | 1034.8                      | 1143.0      |  |
| 85°      | 85°      | 2602.2                            | 2426.8                      | 1945.7                      | 1478.4                      | 1236.9                      | 978.2                       | 973.2       |  |

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**Leuchtdichten in cd/m²**      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 | 4500               | 24.1                  | 28.2                                  | 26.2                               |
| 2         | A                | C | F | 4420               | 23.7                  | 27.9                                  | 25.8                               |
| 3         | A                | D | E | 4340               | 23.2                  | 27.4                                  | 25.3                               |
| 4         | A                | D | F | 4270               | 22.8                  | 27.0                                  | 24.9                               |
| 5         | B                | C | E | 4180               | 22.3                  | 26.2                                  | 24.2                               |
| 6         | B                | C | F | 4100               | 22.0                  | 25.7                                  | 23.8                               |