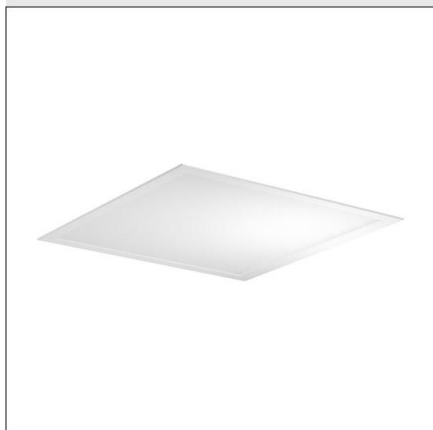


## Lichttechnischer Prüfbefund

**Familie**  
**Apollon® 31**

**Bestell-Nr.: 51MP11WD2442**  
**EAN: 4058352926185**

**LP-Nummer**  
**59516\_5**



**Ausführung** Einbauleuchte für Einlegemontage, quadratisch  
M625, breit strahlend, UGR≤19  
(L65≤3000cd/m<sup>2</sup>)

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 4000 lm  
Systemleistung = 27.5 W  
Lichtausbeute = 145.5 lm/W

**Seriendokumentation**  
11.12.2023

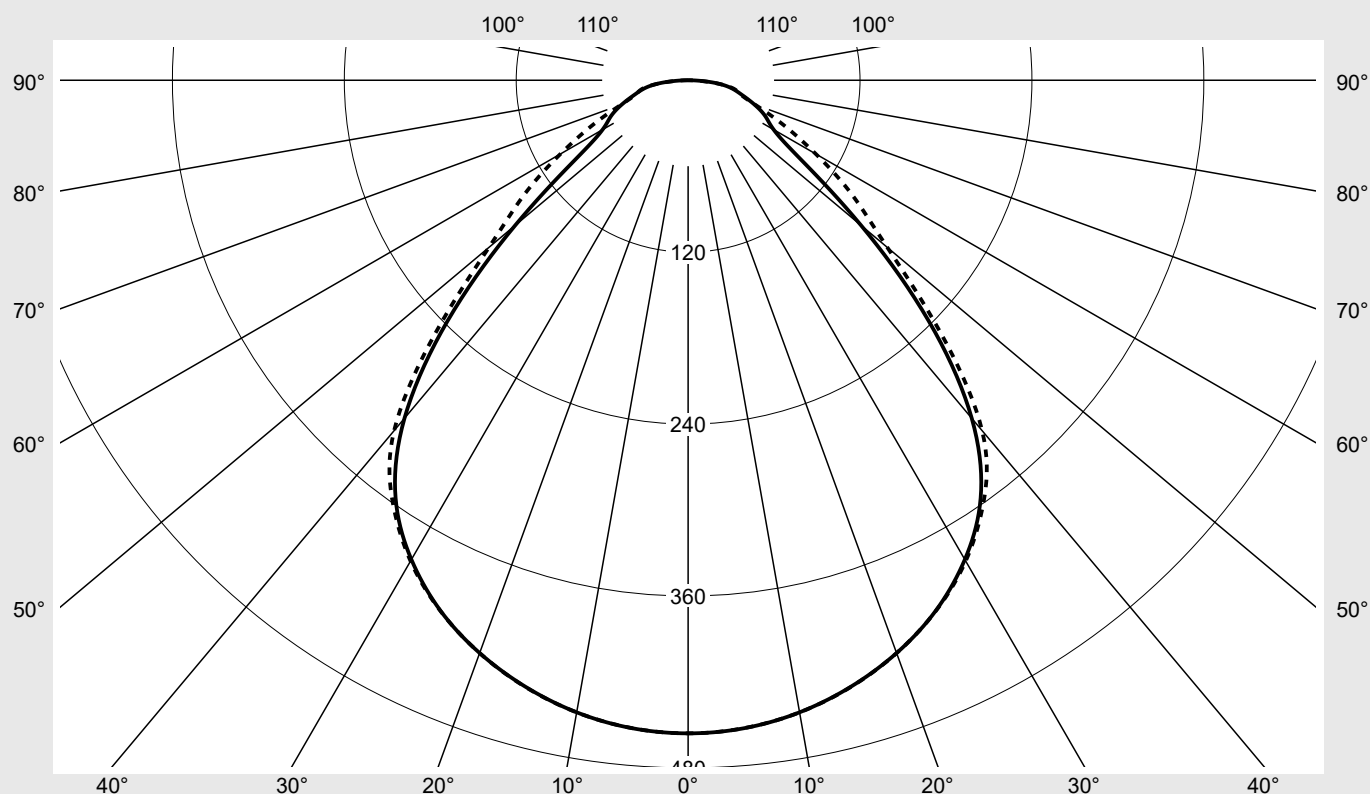
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 456 cd/klm



#### Klassifizierungen

DIN 5040 A 5 0  
CIE N1=61 N2=87 N3=97  
N4=100 N5=100

#### Leuchtenbetriebswirkungsgrade

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

#### Messbedingungen

DIN EN 13032 und DIN 5032

## Lichttechnischer Prüfbefund

|  |   |                                    |
|--|---|------------------------------------|
| <b>Familie</b><br><b>Apollon® 31</b>   | <b>Bestell-Nr.: 51MP11WD2442</b><br><b>EAN: 4058352926185</b> | <b>LP-Nummer</b><br><b>59516_5</b> |
| <b>Wertetabelle Lichtstärkemessung</b> |   | <b>Maximale Lichtstärke</b>        |
| <b>siteco</b>                          |   |                                    |

| C-<br>Ebenen | 0°                    | 15°<br>345° | 30°<br>330° | 45°<br>315° | 60°<br>300° | 75°<br>285° | 90°<br>270° |
|--------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| $\gamma$     | Lichtstärke in cd/klm |             |             |             |             |             |             |
| 0°           | 455.9                 | 455.9       | 455.9       | 455.9       | 455.9       | 455.9       | 455.9       |
| 5°           | 454.0                 | 453.9       | 453.9       | 453.9       | 453.9       | 453.9       | 453.9       |
| 10°          | 448.0                 | 448.0       | 448.0       | 448.1       | 448.1       | 448.1       | 448.1       |
| 15°          | 438.4                 | 438.3       | 438.4       | 438.5       | 438.5       | 438.6       | 438.5       |
| 20°          | 425.5                 | 425.3       | 425.3       | 425.5       | 425.7       | 425.7       | 425.5       |
| 25°          | 408.8                 | 408.7       | 408.7       | 408.8       | 409.0       | 409.1       | 408.9       |
| 30°          | 386.3                 | 386.6       | 386.8       | 387.0       | 387.1       | 387.3       | 387.6       |
| 35°          | 356.0                 | 357.3       | 358.0       | 358.0       | 357.9       | 358.4       | 359.6       |
| 40°          | 308.0                 | 312.5       | 314.7       | 314.8       | 313.9       | 315.4       | 319.3       |
| 45°          | 237.4                 | 240.4       | 242.0       | 242.0       | 242.8       | 245.2       | 249.3       |
| 50°          | 157.6                 | 168.1       | 171.3       | 167.4       | 163.5       | 168.2       | 181.5       |
| 55°          | 95.3                  | 119.8       | 128.0       | 119.9       | 107.7       | 114.5       | 140.2       |
| 60°          | 69.0                  | 89.0        | 96.4        | 91.3        | 79.3        | 83.2        | 102.9       |
| 65°          | 59.5                  | 68.4        | 72.7        | 72.3        | 65.8        | 66.0        | 72.9        |
| 70°          | 49.1                  | 51.9        | 54.5        | 56.9        | 54.9        | 52.5        | 49.7        |
| 75°          | 38.5                  | 40.5        | 42.0        | 43.2        | 41.8        | 40.0        | 37.8        |
| 80°          | 30.1                  | 29.9        | 29.5        | 28.8        | 29.4        | 30.3        | 31.5        |
| 85°          | 16.8                  | 15.8        | 15.0        | 14.4        | 15.2        | 15.6        | 15.7        |
| 90°          | 0.6                   | 0.6         | 0.5         | 0.3         | 0.3         | 0.3         | 0.3         |
| 95°          | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 100°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 105°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 110°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 115°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 120°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 125°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 130°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 135°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 140°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 145°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 150°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 155°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 160°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 165°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 170°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 175°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 180°         | 0.0                   | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |

## Lichttechnischer Prüfbefund

|  |   |                             |
|--|---|-----------------------------|
| <b>Familie</b><br>Apollon® 31          | <b>Bestell-Nr.: 51MP11WD2442</b><br><b>EAN: 4058352926185</b> | <b>LP-Nummer</b><br>59516_5 |
| <b>Wertetabelle Lichtstärkemessung</b> |   | <b>Maximale Lichtstärke</b> |
|  |   | <b>sITeco</b>               |

| C-<br>Ebenen | 105°<br>255°          | 120°<br>240° | 135°<br>225° | 150°<br>210° | 165°<br>195° | 180°  | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-----------------------|--------------|--------------|--------------|--------------|-------|----------------------|-------------------|
| $\gamma$     | Lichtstärke in cd/klm |              |              |              |              |       | Lichtstrom in lm/klm |                   |
| 0°           | 455.9                 | 455.9        | 455.9        | 455.9        | 455.9        | 455.9 | 2.7                  | 2.7               |
| 5°           | 453.9                 | 453.9        | 453.9        | 453.9        | 453.9        | 454.0 | 21.7                 | 24.4              |
| 10°          | 448.1                 | 448.1        | 448.1        | 448.0        | 448.0        | 448.0 | 42.6                 | 67.1              |
| 15°          | 438.6                 | 438.5        | 438.5        | 438.4        | 438.3        | 438.4 | 62.2                 | 129.3             |
| 20°          | 425.7                 | 425.7        | 425.5        | 425.3        | 425.3        | 425.5 | 79.8                 | 209.0             |
| 25°          | 409.1                 | 409.0        | 408.8        | 408.7        | 408.7        | 408.8 | 94.7                 | 303.7             |
| 30°          | 387.3                 | 387.1        | 387.0        | 386.8        | 386.6        | 386.3 | 106.1                | 409.8             |
| 35°          | 358.4                 | 357.9        | 358.0        | 358.0        | 357.3        | 356.0 | 112.5                | 522.3             |
| 40°          | 315.4                 | 313.9        | 314.8        | 314.7        | 312.5        | 308.0 | 110.7                | 633.0             |
| 45°          | 245.2                 | 242.8        | 242.0        | 242.0        | 240.4        | 237.4 | 94.0                 | 727.0             |
| 50°          | 168.2                 | 163.5        | 167.4        | 171.3        | 168.1        | 157.6 | 70.5                 | 797.6             |
| 55°          | 114.5                 | 107.7        | 119.9        | 128.0        | 119.8        | 95.3  | 53.0                 | 850.5             |
| 60°          | 83.2                  | 79.3         | 91.3         | 96.4         | 89.0         | 69.0  | 41.5                 | 892.1             |
| 65°          | 66.0                  | 65.8         | 72.3         | 72.7         | 68.4         | 59.5  | 34.1                 | 926.1             |
| 70°          | 52.5                  | 54.9         | 56.9         | 54.5         | 51.9         | 49.1  | 27.5                 | 953.6             |
| 75°          | 40.0                  | 41.8         | 43.2         | 42.0         | 40.5         | 38.5  | 21.7                 | 975.3             |
| 80°          | 30.3                  | 29.4         | 28.8         | 29.5         | 29.9         | 30.1  | 16.1                 | 991.4             |
| 85°          | 15.6                  | 15.2         | 14.4         | 15.0         | 15.8         | 16.8  | 8.4                  | 999.8             |
| 90°          | 0.3                   | 0.3          | 0.3          | 0.5          | 0.6          | 0.6   | 0.2                  | 1000.0            |
| 95°          | 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                  | 1000.0            |
| 105°         | 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                  | 1000.0            |
| 115°         | 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                  | 1000.0            |
| 125°         | 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                  | 1000.0            |
| 135°         | 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                  | 1000.0            |
| 145°         | 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                  | 1000.0            |
| 155°         | 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                  | 1000.0            |
| 165°         | 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                  | 1000.0            |
| 175°         | 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                  | 1000.0            |

## Lichttechnischer Prüfbefund

|                               |   |                             |
|-------------------------------|---|-----------------------------|
| <b>Familie</b><br>Apollon® 31 | <b>Bestell-Nr.: 51MP11WD2442</b><br><b>EAN: 4058352926185</b> | <b>LP-Nummer</b><br>59516_5 |
|-------------------------------|---|-----------------------------|

| UGR-Tabelle          |           | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|----------------------|-----------|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
|                      |           | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| Raumabmessungen      |           |                                     |      |      |      |      |                                       |      |      |      |      |
| x                    | y         |                                     |      |      |      |      |                                       |      |      |      |      |
| Reflexionsgrad Decke | 0,7       | 0,7                                 | 0,5  | 0,5  | 0,3  | 0,7  | 0,7                                   | 0,5  | 0,5  | 0,3  |      |
| Reflexionsgrad Wände | 0,5       | 0,3                                 | 0,5  | 0,3  | 0,3  | 0,5  | 0,3                                   | 0,5  | 0,3  | 0,3  |      |
| Reflexionsgrad Boden | 0,2       | 0,2                                 | 0,2  | 0,2  | 0,2  | 0,2  | 0,2                                   | 0,2  | 0,2  | 0,2  |      |
| <b>2H</b>            | <b>2H</b> | 15,4                                | 16,9 | 15,7 | 17,2 | 17,6 | 15,5                                  | 17,0 | 15,8 | 17,3 | 17,6 |
|                      | 3H        | 16,3                                | 17,6 | 16,6 | 18,0 | 18,3 | 16,4                                  | 17,7 | 16,7 | 18,1 | 18,4 |
|                      | 4H        | 16,7                                | 18,0 | 17,1 | 18,4 | 18,8 | 16,8                                  | 18,1 | 17,2 | 18,5 | 18,8 |
|                      | 6H        | 17,3                                | 18,5 | 17,7 | 18,8 | 19,2 | 17,3                                  | 18,5 | 17,8 | 18,9 | 19,3 |
|                      | 8H        | 17,5                                | 18,7 | 18,0 | 19,0 | 19,4 | 17,6                                  | 18,8 | 18,0 | 19,1 | 19,5 |
|                      | 12H       | 17,8                                | 18,8 | 18,2 | 19,2 | 19,6 | 17,9                                  | 18,9 | 18,3 | 19,3 | 19,7 |
| <b>4H</b>            | <b>2H</b> | 15,8                                | 17,1 | 16,2 | 17,5 | 17,8 | 15,9                                  | 17,2 | 16,3 | 17,5 | 17,9 |
|                      | 3H        | 16,9                                | 18,0 | 17,4 | 18,4 | 18,8 | 17,0                                  | 18,1 | 17,4 | 18,5 | 18,9 |
|                      | 4H        | 17,6                                | 18,6 | 18,0 | 19,0 | 19,4 | 17,6                                  | 18,6 | 18,1 | 19,0 | 19,5 |
|                      | 6H        | 18,3                                | 19,1 | 18,8 | 19,6 | 20,0 | 18,4                                  | 19,2 | 18,8 | 19,6 | 20,1 |
|                      | 8H        | 18,6                                | 19,4 | 19,1 | 19,9 | 20,3 | 18,7                                  | 19,5 | 19,2 | 19,9 | 20,4 |
|                      | 12H       | 18,9                                | 19,6 | 19,4 | 20,1 | 20,6 | 19,0                                  | 19,7 | 19,5 | 20,1 | 20,6 |
| <b>8H</b>            | <b>4H</b> | 17,9                                | 18,7 | 18,4 | 19,1 | 19,6 | 18,0                                  | 18,7 | 18,4 | 19,2 | 19,7 |
|                      | 6H        | 18,8                                | 19,4 | 19,3 | 19,9 | 20,4 | 18,8                                  | 19,5 | 19,3 | 20,0 | 20,5 |
|                      | 8H        | 19,2                                | 19,8 | 19,7 | 20,3 | 20,8 | 19,3                                  | 19,9 | 19,8 | 20,3 | 20,9 |
|                      | 12H       | 19,6                                | 20,1 | 20,2 | 20,6 | 21,2 | 19,7                                  | 20,1 | 20,2 | 20,6 | 21,2 |
| <b>12H</b>           | <b>4H</b> | 18,0                                | 18,7 | 18,5 | 19,1 | 19,6 | 18,0                                  | 18,7 | 18,5 | 19,2 | 19,7 |
|                      | 6H        | 18,9                                | 19,5 | 19,4 | 19,9 | 20,5 | 19,0                                  | 19,5 | 19,5 | 20,0 | 20,5 |
|                      | 8H        | 19,4                                | 19,9 | 19,9 | 20,4 | 20,9 | 19,4                                  | 19,9 | 20,0 | 20,4 | 21,0 |

| Leuchtdichten-Tabelle           |                       | Lichttechnische Abmessungen in mm: L = 555 B = 555 |             |             |             |             |             |              |              |              |              |              |        |
|---------------------------------|-----------------------|--|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------|
| Max. für $\gamma \geq 65^\circ$ |                       |  |             |             |             |             |             |              |              |              |              |              |        |
| C-Ebenen                        | 0°                    | 15°<br>345°  | 30°<br>330° | 45°<br>315° | 60°<br>300° | 75°<br>285° | 90°<br>270° | 105°<br>255° | 120°<br>240° | 135°<br>225° | 150°<br>210° | 165°<br>195° | 180°   |
| $\gamma$                        | Leuchtdichte in cd/m² |  |             |             |             |             |             |              |              |              |              |              |        |
| 45°                             | 4359.0                | 4415.3   | 4443.9      | 4444.8      | 4459.3      | 4503.7      | 4578.0      | 4503.7       | 4459.3       | 4444.8       | 4443.9       | 4415.3       | 4359.0 |
| 50°                             | 3184.2                | 3395.0   | 3460.7      | 3381.3      | 3302.2      | 3397.6      | 3667.6      | 3397.6       | 3302.2       | 3381.3       | 3460.7       | 3395.0       | 3184.2 |
| 55°                             | 2158.3                | 2713.1   | 2898.8      | 2715.6      | 2438.5      | 2591.2      | 3173.8      | 2591.2       | 2438.5       | 2715.6       | 2898.8       | 2713.1       | 2158.3 |
| 60°                             | 1790.9                | 2310.4   | 2503.5      | 2370.2      | 2060.6      | 2161.6      | 2673.3      | 2161.6       | 2060.6       | 2370.2       | 2503.5       | 2310.4       | 1790.9 |
| 65°                             | 1828.1                | 2102.5   | 2233.2      | 2220.2      | 2020.8      | 2027.8      | 2241.4      | 2027.8       | 2020.8       | 2220.2       | 2233.2       | 2102.5       | 1828.1 |
| 70°                             | 1862.5                | 1970.6   | 2069.9      | 2160.6      | 2085.8      | 1994.1      | 1885.4      | 1994.1       | 2085.8       | 2160.6       | 2069.9       | 1970.6       | 1862.5 |
| 75°                             | 1933.6                | 2029.7   | 2108.1      | 2168.8      | 2098.2      | 2006.9      | 1895.0      | 2006.9       | 2098.2       | 2168.8       | 2108.1       | 2029.7       | 1933.6 |
| 80°                             | 2249.6                | 2239.4   | 2207.3      | 2153.2      | 2196.9      | 2263.6      | 2353.1      | 2263.6       | 2196.9       | 2153.2       | 2207.3       | 2239.4       | 2249.6 |
| 85°                             | 2506.1                | 2360.7   | 2241.2      | 2147.6      | 2257.3      | 2322.7      | 2343.9      | 2322.7       | 2257.3       | 2147.6       | 2241.2       | 2360.7       | 2506.1 |

**Lichttechnischer Prüfbefund**

|                               |   |                             |
|-------------------------------|---|-----------------------------|
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|-------------------------------|---|-----------------------------|

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

