

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 11 Performance**

**Bestell-Nr.: 51TM16MN4AXG**  
**EAN: 4058352930045**

**LP-Nummer**  
**58520\_358**



**Ausführung** Abdeckung satiniert, direkt-/ indirekt strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-Multilumen  
**Bemessungswerte** Nettolichtstrom = 10160 lm  
 Systemleistung = 55.3 W  
 Lichtausbeute = 183.7 lm/W

**Seriendokumentation**  
11.10.2023

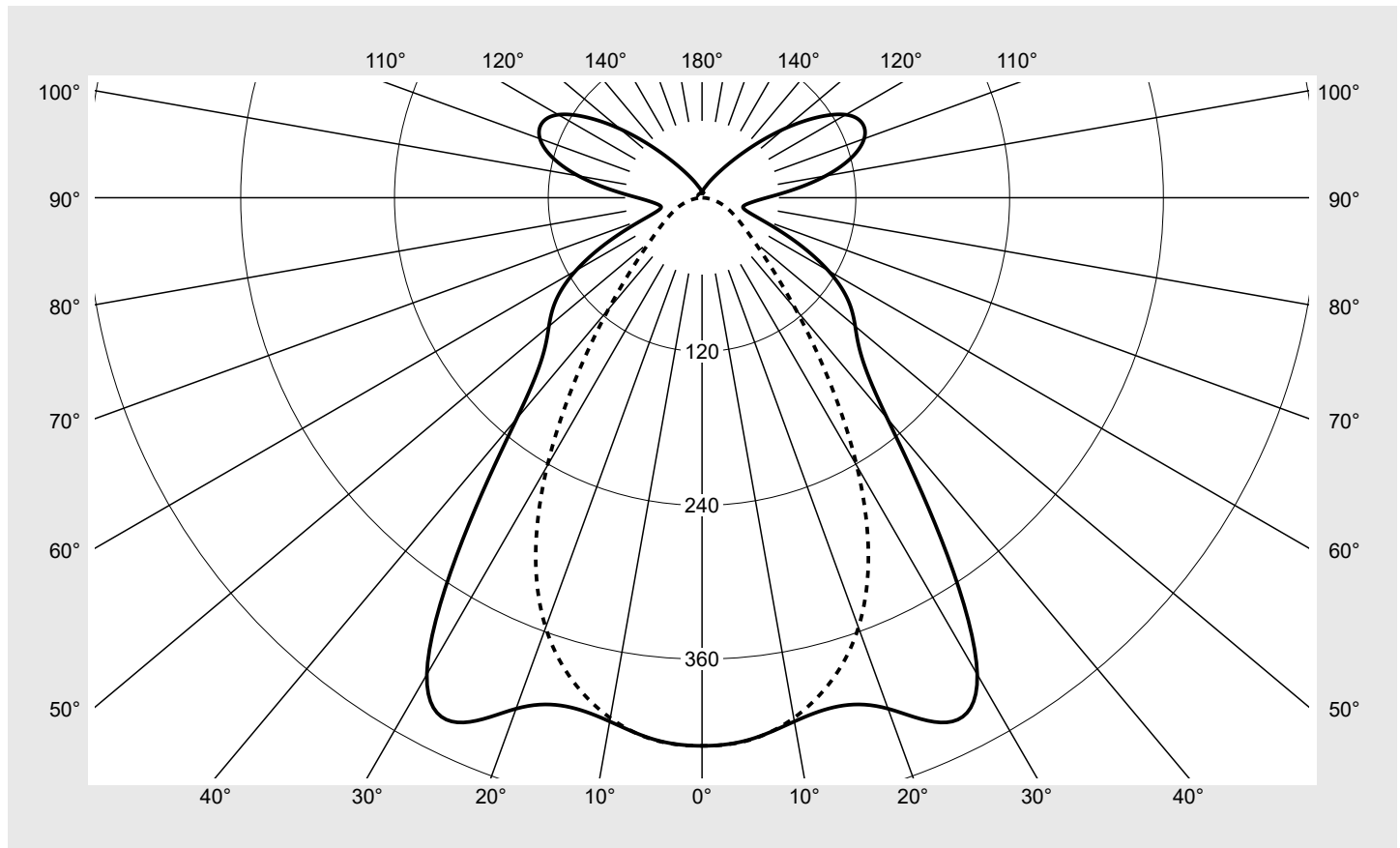
**siteco**

**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  | 19,1                                | 20,4 | 19,7 | 21,0 | 21,6 | 15,3                                  | 16,6 | 15,9 | 17,2 | 17,8 |
|                 | 3H  | 19,7                                | 20,8 | 20,3 | 21,4 | 22,1 | 15,7                                  | 16,9 | 16,3 | 17,5 | 18,1 |
|                 | 4H  | 19,9                                | 20,9 | 20,5 | 21,5 | 22,3 | 15,9                                  | 17,0 | 16,5 | 17,6 | 18,3 |
|                 | 6H  | 20,2                                | 21,1 | 20,8 | 21,7 | 22,5 | 16,1                                  | 17,1 | 16,7 | 17,7 | 18,4 |
|                 | 8H  | 20,4                                | 21,2 | 21,1 | 21,9 | 22,7 | 16,1                                  | 17,0 | 16,7 | 17,6 | 18,4 |
|                 | 12H | 20,7                                | 21,5 | 21,4 | 22,2 | 23,0 | 16,1                                  | 16,9 | 16,7 | 17,6 | 18,4 |
| 4H              | 2H  | 19,1                                | 20,2 | 19,7 | 20,8 | 21,5 | 15,8                                  | 16,8 | 16,4 | 17,4 | 18,2 |
|                 | 3H  | 19,8                                | 20,7 | 20,5 | 21,3 | 22,1 | 16,4                                  | 17,2 | 17,0 | 17,9 | 18,6 |
|                 | 4H  | 20,1                                | 20,8 | 20,7 | 21,5 | 22,3 | 16,7                                  | 17,4 | 17,3 | 18,1 | 18,9 |
|                 | 6H  | 20,5                                | 21,1 | 21,2 | 21,9 | 22,7 | 16,9                                  | 17,5 | 17,6 | 18,2 | 19,1 |
|                 | 8H  | 20,8                                | 21,4 | 21,6 | 22,2 | 23,0 | 16,9                                  | 17,6 | 17,7 | 18,3 | 19,1 |
|                 | 12H | 21,4                                | 21,9 | 22,1 | 22,6 | 23,5 | 17,0                                  | 17,5 | 17,7 | 18,2 | 19,1 |
| 8H              | 4H  | 20,0                                | 20,6 | 20,7 | 21,4 | 22,2 | 16,8                                  | 17,4 | 17,5 | 18,1 | 19,0 |
|                 | 6H  | 20,6                                | 21,1 | 21,3 | 21,8 | 22,7 | 17,2                                  | 17,7 | 17,9 | 18,4 | 19,3 |
|                 | 8H  | 21,1                                | 21,5 | 21,8 | 22,3 | 23,2 | 17,4                                  | 17,8 | 18,1 | 18,6 | 19,5 |
|                 | 12H | 21,8                                | 22,2 | 22,6 | 23,0 | 23,9 | 17,5                                  | 17,8 | 18,2 | 18,6 | 19,5 |
| 12H             | 4H  | 20,0                                | 20,5 | 20,7 | 21,3 | 22,1 | 16,8                                  | 17,3 | 17,6 | 18,1 | 19,0 |
|                 | 6H  | 20,6                                | 21,0 | 21,3 | 21,8 | 22,7 | 17,3                                  | 17,7 | 18,1 | 18,5 | 19,4 |
|                 | 8H  | 21,1                                | 21,5 | 21,9 | 22,3 | 23,2 | 17,5                                  | 17,9 | 18,3 | 18,7 | 19,6 |

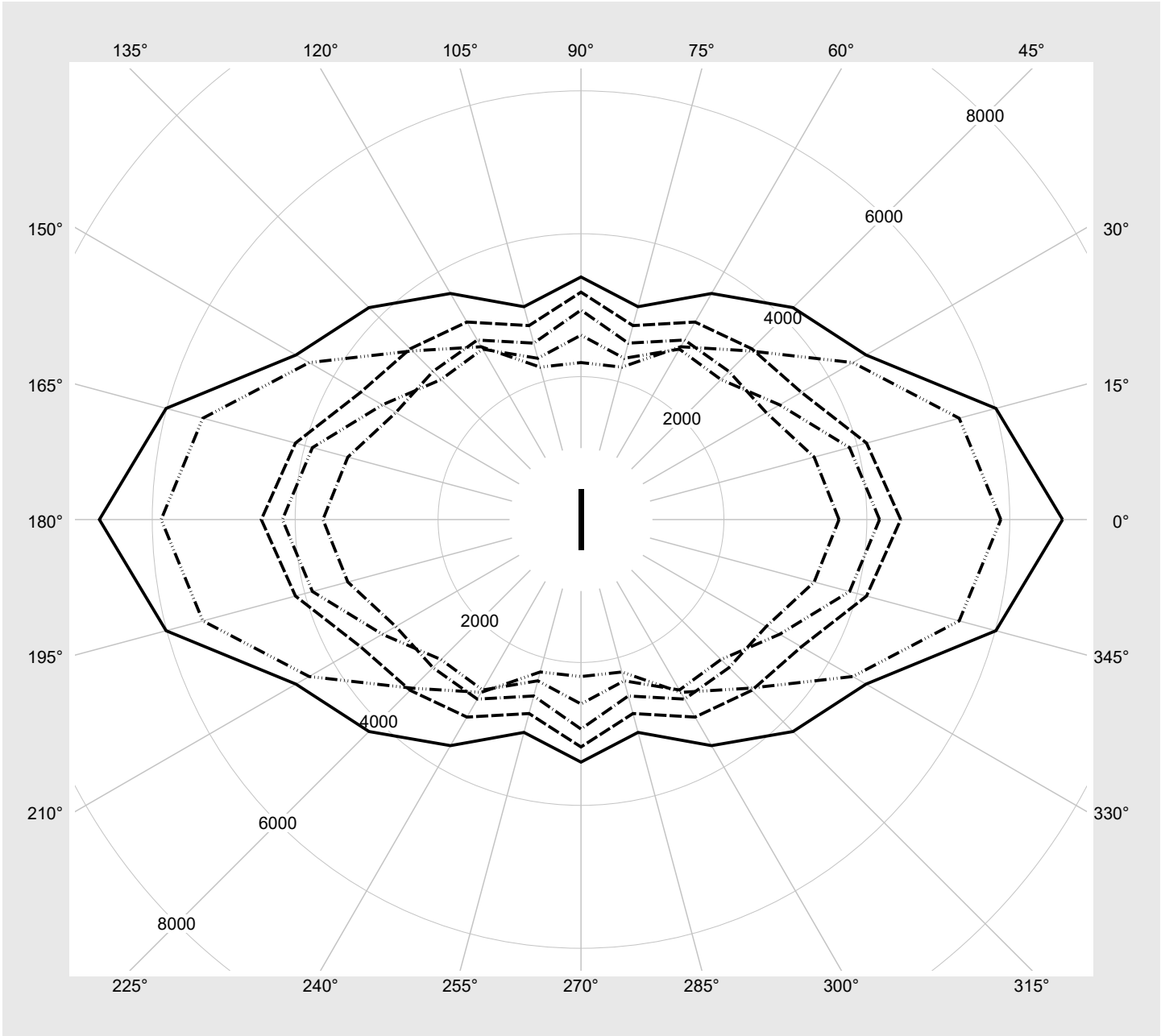
|  |   |                 |                   |                     |
|--|---|-----------------|-------------------|---------------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> | <b>L = 1480</b> | <b>H(C0) = 36</b> | <b>H(C180) = 36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

| 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°      |          | 11342.7                           | 11330.5                     | 13250.5                     | 15531.7                     | 9347.0                      | 6584.4                      | 6387.1      |
| 50°      |          | 10551.3                           | 9848.1                      | 9584.6                      | 11331.9                     | 7061.8                      | 4991.0                      | 4937.8      |
| 55°      |          | 9996.7                            | 8935.2                      | 7383.9                      | 7885.9                      | 5434.8                      | 4048.1                      | 4139.8      |
| 60°      |          | 8801.2                            | 7767.1                      | 5863.3                      | 5584.3                      | 4353.1                      | 3460.1                      | 3676.8      |
| 65°      |          | 6739.7                            | 6010.9                      | 4606.1                      | 4195.3                      | 3653.4                      | 3084.0                      | 3394.8      |
| 70°      |          | 4474.1                            | 4136.6                      | 3561.2                      | 3380.1                      | 3191.9                      | 2810.4                      | 3182.3      |
| 75°      |          | 3610.9                            | 3378.1                      | 2993.4                      | 2930.3                      | 2901.4                      | 2556.2                      | 2931.7      |
| 80°      |          | 4178.1                            | 3890.9                      | 3210.6                      | 2770.6                      | 2754.4                      | 2336.3                      | 2580.7      |
| 85°      |          | 5875.2                            | 5479.1                      | 4393.0                      | 3338.0                      | 2792.7                      | 2208.6                      | 2197.2      |

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**Leuchtdichten in cd/m²**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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## Multilumen-Tabelle

Umgebungstemperatur: 25°C



| DIP-Stufe | Schalterstellung |   |   | Lichtstrom<br>[lm] | Systemleistung<br>[W] |
|-----------|------------------|---|---|--------------------|-----------------------|
|           | 1                | 2 | 3 |                    |                       |
| 1         | A                | C | E | 10160              | 55.3                  |
| 2         | A                | C | F | 9638               | 52.1                  |
| 3         | A                | D | E | 9191               | 49.4                  |
| 4         | A                | D | F | 8658               | 46.3                  |
| 5         | B                | C | E | 8126               | 43.1                  |
| 6         | B                | C | F | 7668               | 40.5                  |
| 7         | B                | D | E | 7114               | 37.4                  |
| 8         | B                | D | F | 6646               | 34.7                  |