

## Lichttechnischer Prüfbefund

**Familie**  
**Spot 11**

**Bestell-Nr.: 51SD15MBB5A**  
**EAN: 4058352716441**

**LP-Nummer**  
**59369\_8**



|                        |  |
|------------------------|--|
| <b>Ausführung</b>      | Reflektor, Abdeckscheibe, PC, klar, extrem breit strahlend                         |
| <b>Bestückung</b>      | LED 3000 K   CRI ≥ 90  |
| <b>Betriebsgerät</b>   | EVG-Multilumen   |
| <b>Einstellung</b>     | Werkseinstellung: DIP-Stufe=10   |
| <b>Bemessungswerte</b> | Nettolichtstrom = 5750 lm<br>Systemleistung = 37.7 W<br>Lichtausbeute = 152.5 lm/W |

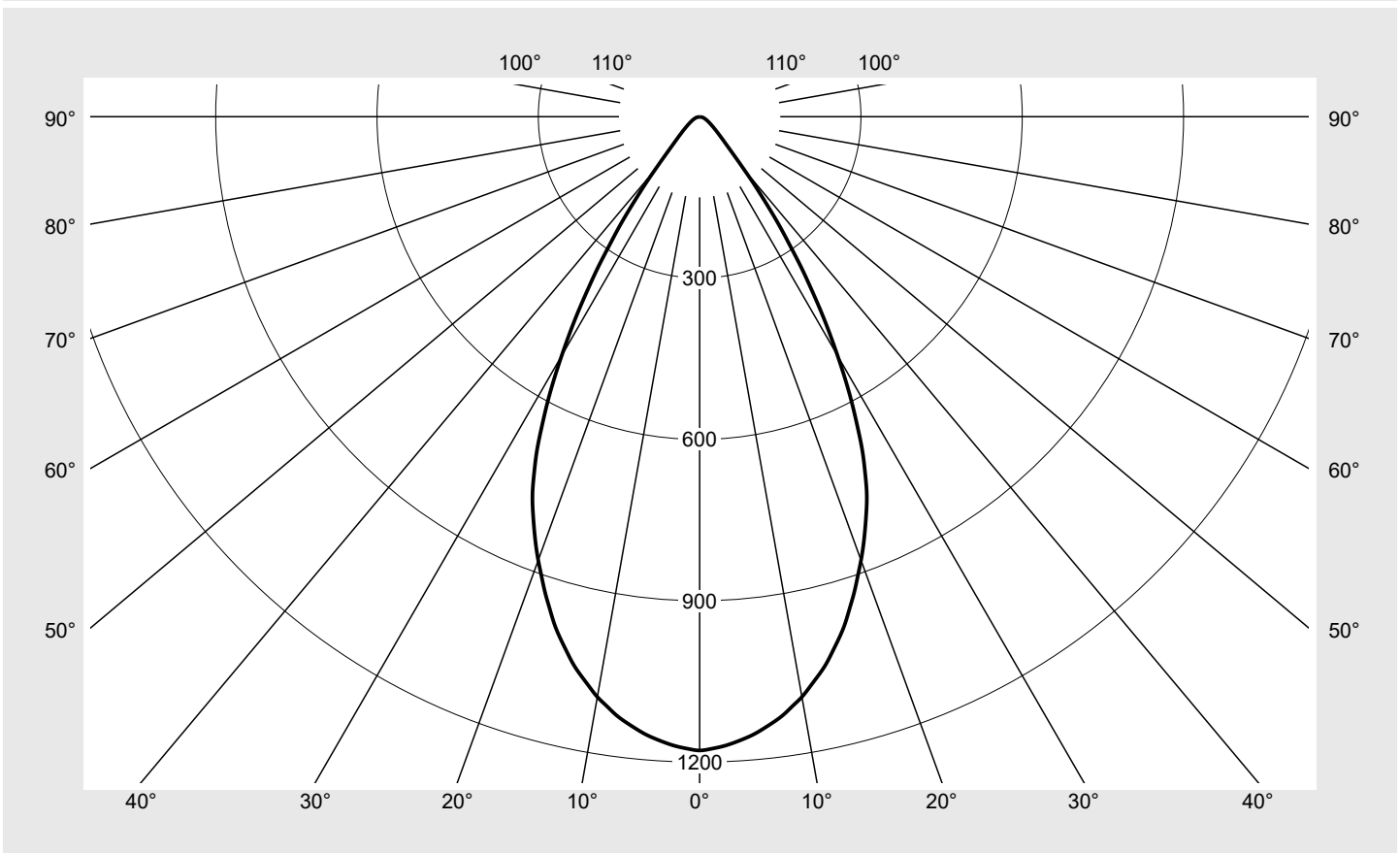
**Seriendokumentation**  
23.12.2022

**sITeco**

**Lichtstärke in cd/klm**

**C180-0**

**Imax: 1178 cd/klm**



**Klassifizierungen**

DIN 5040 A 7 0  
CIE N1=91 N2=98 N3=100  
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-Ebenen | 0°                    | Phi-Zone             | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| $\gamma$ | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                |
| 0°       | 1178.4                | 0.3                  | 0.3            |
| 1°       | 1175.7                | 2.3                  | 2.5            |
| 2°       | 1171.9                | 4.5                  | 7.0            |
| 3°       | 1166.6                | 6.7                  | 13.7           |
| 4°       | 1160.1                | 8.9                  | 22.6           |
| 5°       | 1152.9                | 11.0                 | 33.6           |
| 6°       | 1143.6                | 13.1                 | 46.7           |
| 7°       | 1133.7                | 15.2                 | 61.9           |
| 8°       | 1122.6                | 17.1                 | 79.0           |
| 9°       | 1108.8                | 19.0                 | 98.0           |
| 10°      | 1095.5                | 20.9                 | 118.9          |
| 11°      | 1078.8                | 22.6                 | 141.5          |
| 12°      | 1062.1                | 24.2                 | 165.7          |
| 13°      | 1044.7                | 25.8                 | 191.4          |
| 14°      | 1023.8                | 27.2                 | 218.6          |
| 15°      | 1003.1                | 28.5                 | 247.1          |
| 16°      | 980.8                 | 29.6                 | 276.7          |
| 17°      | 955.1                 | 30.6                 | 307.3          |
| 18°      | 930.2                 | 31.5                 | 338.9          |
| 19°      | 903.4                 | 32.3                 | 371.1          |
| 20°      | 877.6                 | 32.9                 | 404.0          |
| 21°      | 850.7                 | 33.4                 | 437.5          |
| 22°      | 822.4                 | 33.8                 | 471.2          |
| 23°      | 794.1                 | 34.0                 | 505.3          |
| 24°      | 763.9                 | 34.1                 | 539.3          |
| 25°      | 727.5                 | 33.7                 | 573.1          |
| 26°      | 690.1                 | 33.2                 | 606.2          |
| 27°      | 646.6                 | 32.2                 | 638.4          |
| 28°      | 603.7                 | 31.1                 | 669.5          |
| 29°      | 559.1                 | 29.7                 | 699.2          |
| 30°      | 513.2                 | 28.1                 | 727.4          |
| 31°      | 468.5                 | 26.5                 | 753.8          |
| 32°      | 424.0                 | 24.6                 | 778.5          |
| 33°      | 379.2                 | 22.6                 | 801.1          |
| 34°      | 338.0                 | 20.7                 | 821.8          |
| 35°      | 294.8                 | 18.5                 | 840.4          |
| 36°      | 258.7                 | 16.7                 | 857.1          |
| 37°      | 222.0                 | 14.6                 | 871.7          |
| 38°      | 187.4                 | 12.7                 | 884.4          |
| 39°      | 158.5                 | 10.9                 | 895.3          |
| 40°      | 130.3                 | 9.2                  | 904.5          |
| 41°      | 108.7                 | 7.8                  | 912.3          |
| 42°      | 92.1                  | 6.8                  | 919.1          |
| 43°      | 79.7                  | 6.0                  | 925.0          |
| 44°      | 70.0                  | 5.3                  | 930.3          |
| 45°      | 62.5                  | 4.8                  | 935.2          |
| 46°      | 56.3                  | 4.4                  | 939.6          |

| C-Ebenen | 0°                    | Phi-Zone             | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| $\gamma$ | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                |
| 47°      | 51.1                  | 4.1                  | 943.7          |
| 48°      | 46.5                  | 3.8                  | 947.5          |
| 49°      | 42.6                  | 3.5                  | 951.1          |
| 50°      | 39.2                  | 3.3                  | 954.3          |
| 51°      | 35.9                  | 3.1                  | 957.4          |
| 52°      | 33.2                  | 2.9                  | 960.3          |
| 53°      | 30.8                  | 2.7                  | 963.0          |
| 54°      | 28.5                  | 2.5                  | 965.5          |
| 55°      | 26.5                  | 2.4                  | 967.9          |
| 56°      | 24.7                  | 2.2                  | 970.1          |
| 57°      | 23.1                  | 2.1                  | 972.3          |
| 58°      | 21.6                  | 2.0                  | 974.3          |
| 59°      | 20.2                  | 1.9                  | 976.2          |
| 60°      | 18.9                  | 1.8                  | 978.0          |
| 61°      | 17.8                  | 1.7                  | 979.7          |
| 62°      | 16.6                  | 1.6                  | 981.3          |
| 63°      | 15.6                  | 1.5                  | 982.8          |
| 64°      | 14.6                  | 1.4                  | 984.2          |
| 65°      | 13.7                  | 1.4                  | 985.6          |
| 66°      | 12.9                  | 1.3                  | 986.9          |
| 67°      | 12.0                  | 1.2                  | 988.1          |
| 68°      | 11.3                  | 1.1                  | 989.3          |
| 69°      | 10.5                  | 1.1                  | 990.3          |
| 70°      | 9.8                   | 1.0                  | 991.3          |
| 71°      | 9.2                   | 0.9                  | 992.3          |
| 72°      | 8.5                   | 0.9                  | 993.2          |
| 73°      | 7.9                   | 0.8                  | 994.0          |
| 74°      | 7.4                   | 0.8                  | 994.8          |
| 75°      | 6.8                   | 0.7                  | 995.5          |
| 76°      | 6.3                   | 0.7                  | 996.2          |
| 77°      | 5.8                   | 0.6                  | 996.8          |
| 78°      | 5.4                   | 0.6                  | 997.4          |
| 79°      | 4.9                   | 0.5                  | 997.9          |
| 80°      | 4.4                   | 0.5                  | 998.4          |
| 81°      | 3.8                   | 0.4                  | 998.8          |
| 82°      | 3.3                   | 0.4                  | 999.1          |
| 83°      | 2.5                   | 0.3                  | 999.4          |
| 84°      | 1.9                   | 0.2                  | 999.6          |
| 85°      | 1.4                   | 0.2                  | 999.8          |
| 86°      | 1.0                   | 0.1                  | 999.9          |
| 87°      | 0.5                   | 0.1                  | 1000.0         |
| 88°      | 0.2                   | 0.0                  | 1000.0         |
| 89°      | 0.2                   | 0.0                  | 1000.0         |
| 90°      | 0.1                   | 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  | 25,0                                | 26,1 | 25,3 | 26,5 | 26,8 | 25,0                                  | 26,1 | 25,3 | 26,5 | 26,8 |
|                 | 3H  | 25,1                                | 26,1 | 25,5 | 26,5 | 26,8 | 25,1                                  | 26,1 | 25,5 | 26,5 | 26,8 |
|                 | 4H  | 25,2                                | 26,1 | 25,5 | 26,5 | 26,8 | 25,2                                  | 26,1 | 25,5 | 26,5 | 26,8 |
|                 | 6H  | 25,2                                | 26,1 | 25,6 | 26,5 | 26,8 | 25,2                                  | 26,1 | 25,6 | 26,5 | 26,8 |
|                 | 8H  | 25,4                                | 26,1 | 25,8 | 26,4 | 26,8 | 25,4                                  | 26,1 | 25,8 | 26,4 | 26,8 |
|                 | 12H | 25,3                                | 26,0 | 25,8 | 26,4 | 26,8 | 25,3                                  | 26,0 | 25,8 | 26,4 | 26,8 |
| 4H              | 2H  | 24,9                                | 25,9 | 25,3 | 26,2 | 26,6 | 24,9                                  | 25,9 | 25,3 | 26,2 | 26,6 |
|                 | 3H  | 25,1                                | 25,9 | 25,5 | 26,3 | 26,7 | 25,1                                  | 25,9 | 25,5 | 26,3 | 26,7 |
|                 | 4H  | 25,2                                | 25,9 | 25,7 | 26,3 | 26,8 | 25,2                                  | 25,9 | 25,7 | 26,3 | 26,8 |
|                 | 6H  | 25,3                                | 25,9 | 25,8 | 26,4 | 26,9 | 25,3                                  | 25,9 | 25,8 | 26,4 | 26,9 |
|                 | 8H  | 25,4                                | 25,9 | 25,9 | 26,4 | 26,9 | 25,4                                  | 25,9 | 25,9 | 26,4 | 26,9 |
|                 | 12H | 25,5                                | 25,9 | 25,9 | 26,3 | 26,8 | 25,5                                  | 25,9 | 25,9 | 26,3 | 26,8 |
| 8H              | 4H  | 25,2                                | 25,7 | 25,7 | 26,2 | 26,7 | 25,2                                  | 25,7 | 25,7 | 26,2 | 26,7 |
|                 | 6H  | 25,4                                | 25,8 | 25,9 | 26,3 | 26,8 | 25,4                                  | 25,8 | 25,9 | 26,3 | 26,8 |
|                 | 8H  | 25,5                                | 25,8 | 26,0 | 26,3 | 26,9 | 25,5                                  | 25,8 | 26,0 | 26,3 | 26,9 |
|                 | 12H | 25,5                                | 25,8 | 26,0 | 26,3 | 26,8 | 25,5                                  | 25,8 | 26,0 | 26,3 | 26,8 |
| 12H             | 4H  | 25,2                                | 25,7 | 25,7 | 26,1 | 26,6 | 25,2                                  | 25,7 | 25,7 | 26,1 | 26,6 |
|                 | 6H  | 25,4                                | 25,8 | 25,9 | 26,2 | 26,8 | 25,4                                  | 25,8 | 25,9 | 26,2 | 26,8 |
|                 | 8H  | 25,5                                | 25,8 | 26,0 | 26,3 | 26,8 | 25,5                                  | 25,8 | 26,0 | 26,3 | 26,8 |

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

Lichttechnische Abmessungen in mm: D = 79

| C-Ebenen | 0°                                |
|----------|-----------------------------------|
| $\gamma$ | Leuchtdichte in cd/m <sup>2</sup> |
| 45°      | 103733.8                          |
| 50°      | 71509.7                           |
| 55°      | 54246.5                           |
| 60°      | 44412.4                           |
| 65°      | 38146.7                           |
| 70°      | 33722.0                           |
| 75°      | 30842.9                           |
| 80°      | 29386.2                           |
| 85°      | 19166.3                           |

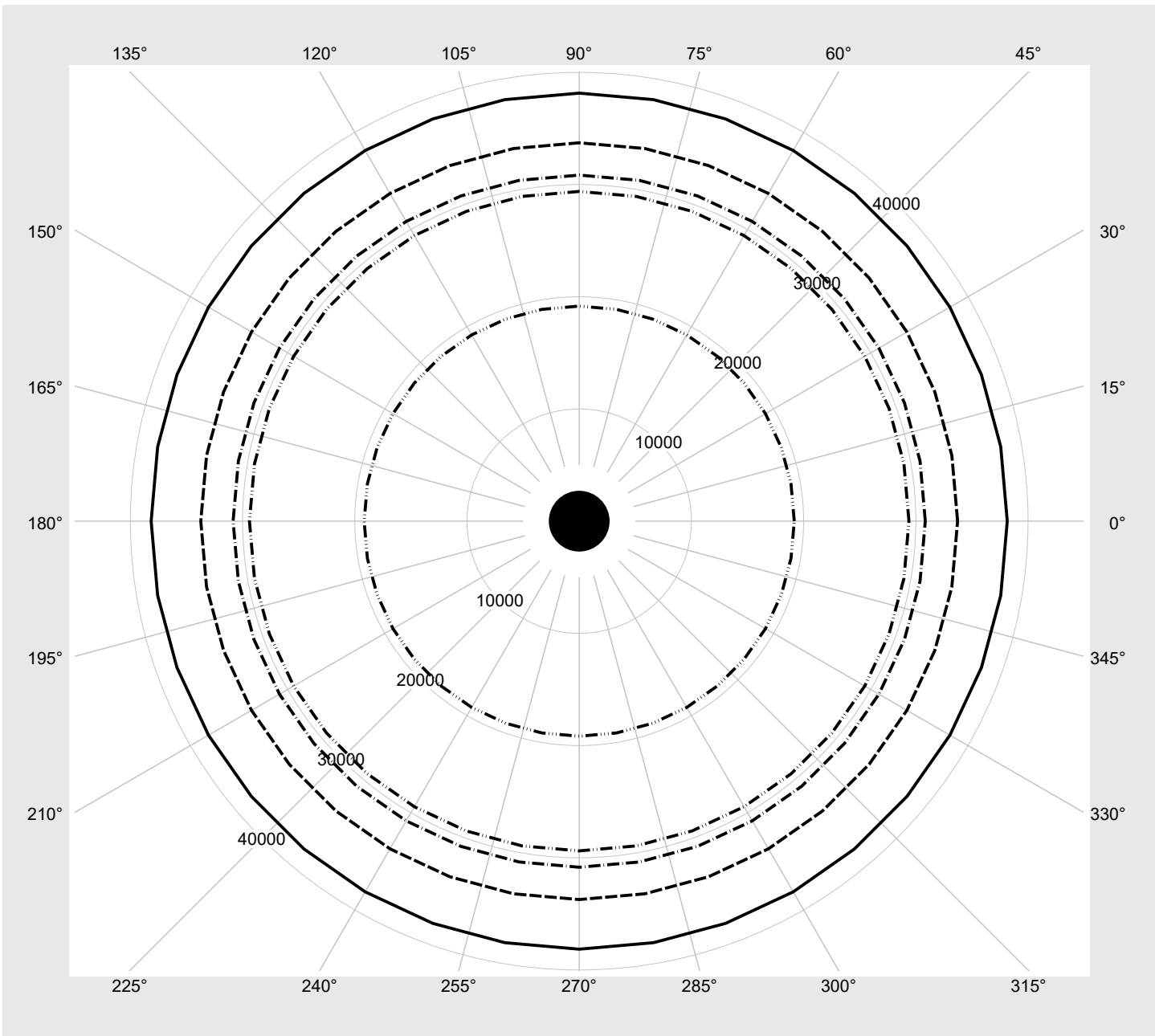
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**Leuchtdichten in cd/m<sup>2</sup>**

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| $\gamma$ 65° | $\gamma$ 70° | $\gamma$ 75° | $\gamma$ 80° | $\gamma$ 85° |
|--------------|--------------|--------------|--------------|--------------|

**siteco**



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## Multilumen-Tabelle

Umgebungstemperatur: 25°C



| DIP-Stufe | Schalterstellung |     |     |     | Lichtstrom<br>[lm] | Systemleistung<br>[W] |
|-----------|------------------|-----|-----|-----|--------------------|-----------------------|
|           | 1                | 2   | 3   | 4   |                    |                       |
| 15        | ON               | ON  | ON  | ON  | 7370               | 50.2                  |
| 14        | ON               | ON  | ON  | OFF | 7090               | 47.7                  |
| 13        | ON               | ON  | OFF | ON  | 6760               | 45.1                  |
| 12        | ON               | ON  | OFF | OFF | 6420               | 42.8                  |
| 11        | ON               | OFF | ON  | ON  | 6090               | 40.0                  |
| 10        | ON               | OFF | ON  | OFF | 5750               | 37.7                  |
| 9         | ON               | OFF | OFF | ON  | 5430               | 35.3                  |
| 8         | ON               | OFF | OFF | OFF | 5120               | 33.0                  |
| 7         | OFF              | ON  | ON  | ON  | 4780               | 31.0                  |
| 6         | OFF              | ON  | ON  | OFF | 4450               | 28.7                  |
| 5         | OFF              | ON  | OFF | ON  | 4120               | 26.2                  |
| 4         | OFF              | ON  | OFF | OFF | 3760               | 23.9                  |
| 3         | OFF              | OFF | ON  | ON  | 3410               | 21.3                  |
| 2         | OFF              | OFF | ON  | OFF | 3080               | 19.0                  |
| 1         | OFF              | OFF | OFF | ON  | 2650               | 16.5                  |
| 0         | OFF              | OFF | OFF | OFF | 2220               | 14.2                  |