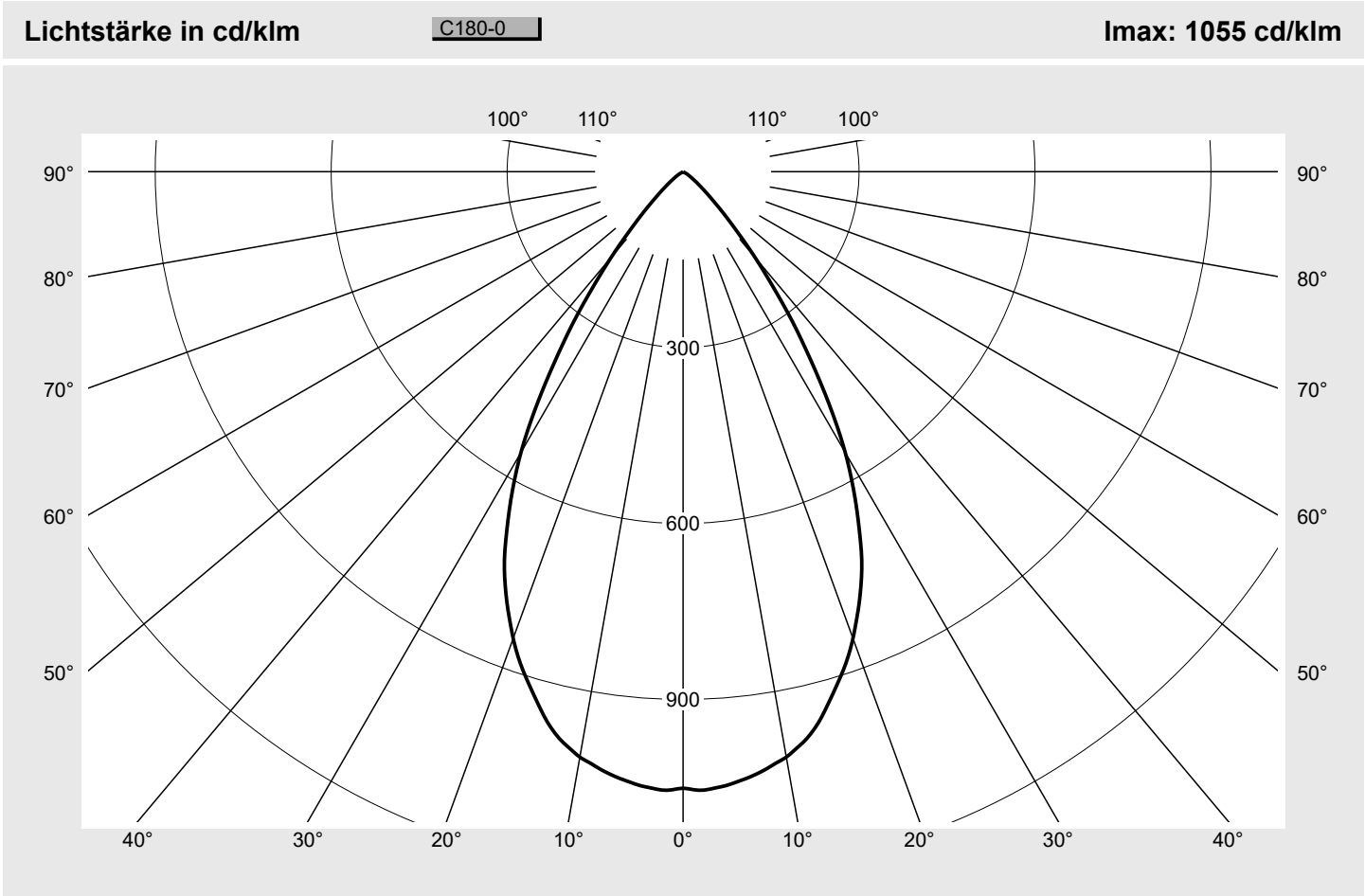


Lichttechnischer Prüfbefund

|                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                          |                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <div>Familie</div> <div>Lunis 21</div> <div></div> | <div>Bestell-Nr.: 51DB15MD91C</div> <div>EAN: 4069025013385</div>                                                                                                                                                                                                                                                                        | <div>LP-Nummer</div> <div>59675_2</div>              |
|                                                                                                                                     | <div>Ausführung</div> <div>Einbauleuchte, Kombinierte Linsen und Reflektor Optik, Reflektor, hochglänzend, rotationssymmetrisch, breit strahlend, einstellbare Farbtemperatur: 3000K   4000K   6500K, UGR≤19 (L65≤1000cd/m²)</div>                                                                                                       | <div>Seriendokumentation</div> <div>27.09.2024</div> |
|                                                                                                                                     | <div>Bestückung</div> <div>Betriebsgerät</div> <div>Einstellung</div> <div>Bemessungswerte</div> <div>LED 4000 K   CRI ≥ 80</div> <div>EVG-Multilumen</div> <div>Werkseinstellung: DIP-Stufe=1, Farbtemperatur 4000K</div> <div>Nettolichtstrom = 2180 lm</div> <div>Systemleistung = 12.2 W</div> <div>Lichtausbeute = 178.7 lm/W</div> | <div>siteco</div>                                    |



|                   |                     |                               |        |
|-------------------|---------------------|-------------------------------|--------|
| Klassifizierungen |                     | Leuchtenbetriebswirkungsgrade |        |
| DIN 5040          | A 7 0               | $\eta_{LB}$                   | 100,0% |
| CIE               | N1=93 N2=100 N3=100 | $\phi_u$                      | 100,0% |
|                   | N4=100 N5=100       | $\phi_o$                      | 0,0%   |

|                           |
|---------------------------|
| Messbedingungen           |
| DIN EN 13032 und DIN 5032 |

Lichttechnischer Prüfbefund

|                                 |                                                |                      |
|---------------------------------|------------------------------------------------|----------------------|
| Familie<br>Lunis 21             | Bestell-Nr.: 51DB15MD91C<br>EAN: 4069025013385 | LP-Nummer<br>59675_2 |
| Wertetabelle Lichtstärkemessung |                                                | Maximale Lichtstärke |
|                                 |                                                | siteco               |

| C-Ebenen | 0°                    | Phi-Zone             | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| γ        | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                |
| 0°       | 1051.3                | 0.3                  | 0.3            |
| 1°       | 1054.1                | 2.0                  | 2.3            |
| 2°       | 1055.1                | 4.0                  | 6.3            |
| 3°       | 1052.3                | 6.0                  | 12.3           |
| 4°       | 1049.5                | 8.0                  | 20.4           |
| 5°       | 1044.8                | 10.0                 | 30.4           |
| 6°       | 1040.1                | 11.9                 | 42.3           |
| 7°       | 1034.4                | 13.8                 | 56.1           |
| 8°       | 1027.9                | 15.7                 | 71.8           |
| 9°       | 1020.4                | 17.5                 | 89.3           |
| 10°      | 1013.8                | 19.3                 | 108.6          |
| 11°      | 1003.5                | 21.0                 | 129.6          |
| 12°      | 993.1                 | 22.6                 | 152.2          |
| 13°      | 980.0                 | 24.2                 | 176.4          |
| 14°      | 964.0                 | 25.6                 | 202.0          |
| 15°      | 945.3                 | 26.8                 | 228.8          |
| 16°      | 926.4                 | 28.0                 | 256.8          |
| 17°      | 907.8                 | 29.1                 | 285.9          |
| 18°      | 889.3                 | 30.1                 | 316.1          |
| 19°      | 869.1                 | 31.0                 | 347.1          |
| 20°      | 847.0                 | 31.8                 | 378.9          |
| 21°      | 823.0                 | 32.3                 | 411.2          |
| 22°      | 799.5                 | 32.8                 | 444.0          |
| 23°      | 774.6                 | 33.2                 | 477.2          |
| 24°      | 748.7                 | 33.4                 | 510.6          |
| 25°      | 719.9                 | 33.4                 | 544.0          |
| 26°      | 687.0                 | 33.0                 | 577.0          |
| 27°      | 654.5                 | 32.6                 | 609.6          |
| 28°      | 621.8                 | 32.0                 | 641.6          |
| 29°      | 588.0                 | 31.3                 | 672.9          |
| 30°      | 553.1                 | 30.3                 | 703.2          |
| 31°      | 514.2                 | 29.0                 | 732.2          |
| 32°      | 473.7                 | 27.5                 | 759.8          |
| 33°      | 432.5                 | 25.8                 | 785.6          |
| 34°      | 392.6                 | 24.1                 | 809.7          |
| 35°      | 355.2                 | 22.3                 | 832.0          |
| 36°      | 320.3                 | 20.6                 | 852.7          |
| 37°      | 283.8                 | 18.7                 | 871.4          |
| 38°      | 249.3                 | 16.8                 | 888.2          |
| 39°      | 218.8                 | 15.1                 | 903.3          |
| 40°      | 190.7                 | 13.4                 | 916.8          |
| 41°      | 164.1                 | 11.8                 | 928.6          |
| 42°      | 138.8                 | 10.2                 | 938.8          |
| 43°      | 118.3                 | 8.8                  | 947.6          |
| 44°      | 101.1                 | 7.7                  | 955.3          |
| 45°      | 85.3                  | 6.6                  | 961.9          |
| 46°      | 72.0                  | 5.7                  | 967.6          |

| C-Ebenen | 0°                    | Phi-Zone             | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|
| γ        | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                |
| 47°      | 60.7                  | 4.9                  | 972.5          |
| 48°      | 51.8                  | 4.2                  | 976.7          |
| 49°      | 43.7                  | 3.6                  | 980.3          |
| 50°      | 36.9                  | 3.1                  | 983.4          |
| 51°      | 31.3                  | 2.7                  | 986.1          |
| 52°      | 26.4                  | 2.3                  | 988.3          |
| 53°      | 21.9                  | 1.9                  | 990.3          |
| 54°      | 18.6                  | 1.7                  | 991.9          |
| 55°      | 15.6                  | 1.4                  | 993.3          |
| 56°      | 12.9                  | 1.2                  | 994.5          |
| 57°      | 10.7                  | 1.0                  | 995.5          |
| 58°      | 8.7                   | 0.8                  | 996.3          |
| 59°      | 7.0                   | 0.7                  | 996.9          |
| 60°      | 5.4                   | 0.5                  | 997.5          |
| 61°      | 4.2                   | 0.4                  | 997.9          |
| 62°      | 3.1                   | 0.3                  | 998.2          |
| 63°      | 2.2                   | 0.2                  | 998.4          |
| 64°      | 1.6                   | 0.2                  | 998.5          |
| 65°      | 1.1                   | 0.1                  | 998.7          |
| 66°      | 0.8                   | 0.1                  | 998.7          |
| 67°      | 0.6                   | 0.1                  | 998.8          |
| 68°      | 0.6                   | 0.1                  | 998.9          |
| 69°      | 0.6                   | 0.1                  | 998.9          |
| 70°      | 0.6                   | 0.1                  | 999.0          |
| 71°      | 0.6                   | 0.1                  | 999.0          |
| 72°      | 0.6                   | 0.1                  | 999.1          |
| 73°      | 0.6                   | 0.1                  | 999.2          |
| 74°      | 0.6                   | 0.1                  | 999.2          |
| 75°      | 0.5                   | 0.1                  | 999.3          |
| 76°      | 0.5                   | 0.1                  | 999.3          |
| 77°      | 0.5                   | 0.1                  | 999.4          |
| 78°      | 0.5                   | 0.1                  | 999.4          |
| 79°      | 0.5                   | 0.1                  | 999.5          |
| 80°      | 0.5                   | 0.1                  | 999.5          |
| 81°      | 0.5                   | 0.1                  | 999.6          |
| 82°      | 0.5                   | 0.1                  | 999.6          |
| 83°      | 0.5                   | 0.1                  | 999.7          |
| 84°      | 0.5                   | 0.1                  | 999.8          |
| 85°      | 0.5                   | 0.1                  | 999.8          |
| 86°      | 0.5                   | 0.1                  | 999.9          |
| 87°      | 0.5                   | 0.0                  | 999.9          |
| 88°      | 0.4                   | 0.0                  | 1000.0         |
| 89°      | 0.4                   | 0.0                  | 1000.0         |
| 90°      | 0.0                   | 0.0                  | 1000.0         |
| 180°     | 0.0                   | 0.0                  | 1000.0         |

Lichttechnischer Prüfbefund

|                      |     |                                     |                                                |      |      |      |                                       |      |                      |      |      |
|----------------------|-----|-------------------------------------|------------------------------------------------|------|------|------|---------------------------------------|------|----------------------|------|------|
| Familie<br>Lunis 21  |     |                                     | Bestell-Nr.: 51DB15MD91C<br>EAN: 4069025013385 |      |      |      |                                       |      | LP-Nummer<br>59675_2 |      |      |
| UGR-Tabelle          |     |                                     | Standardraum                                   |      |      |      |                                       |      | siteco               |      |      |
| 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  |
| Raumabmessungen      |     | Blickrichtung quer zur Leuchte (C0) |                                                |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |                      |      |      |
| x                    | y   |                                     |                                                |      |      |      |                                       |      |                      |      |      |
| 2H                   | 2H  | 18,8                                | 20,0                                           | 19,1 | 20,3 | 20,6 | 18,8                                  | 20,0 | 19,1                 | 20,3 | 20,6 |
|                      | 3H  | 18,6                                | 19,7                                           | 19,0 | 20,0 | 20,4 | 18,6                                  | 19,7 | 19,0                 | 20,0 | 20,4 |
|                      | 4H  | 18,5                                | 19,5                                           | 18,9 | 19,9 | 20,2 | 18,5                                  | 19,5 | 18,9                 | 19,9 | 20,2 |
|                      | 6H  | 18,5                                | 19,3                                           | 18,9 | 19,7 | 20,1 | 18,5                                  | 19,3 | 18,9                 | 19,7 | 20,1 |
|                      | 8H  | 18,6                                | 19,3                                           | 19,0 | 19,6 | 20,0 | 18,6                                  | 19,3 | 19,0                 | 19,6 | 20,0 |
|                      | 12H | 18,5                                | 19,2                                           | 19,0 | 19,5 | 20,0 | 18,5                                  | 19,2 | 19,0                 | 19,5 | 20,0 |
| 4H                   | 2H  | 18,6                                | 19,5                                           | 19,0 | 19,9 | 20,2 | 18,6                                  | 19,5 | 19,0                 | 19,9 | 20,2 |
|                      | 3H  | 18,4                                | 19,2                                           | 18,8 | 19,6 | 20,0 | 18,4                                  | 19,2 | 18,8                 | 19,6 | 20,0 |
|                      | 4H  | 18,3                                | 19,0                                           | 18,7 | 19,4 | 19,8 | 18,3                                  | 19,0 | 18,7                 | 19,4 | 19,8 |
|                      | 6H  | 18,2                                | 18,8                                           | 18,7 | 19,2 | 19,7 | 18,2                                  | 18,8 | 18,7                 | 19,2 | 19,7 |
|                      | 8H  | 18,2                                | 18,7                                           | 18,6 | 19,1 | 19,6 | 18,2                                  | 18,7 | 18,6                 | 19,1 | 19,6 |
|                      | 12H | 18,2                                | 18,6                                           | 18,7 | 19,0 | 19,5 | 18,2                                  | 18,6 | 18,7                 | 19,0 | 19,5 |
| 8H                   | 4H  | 18,2                                | 18,7                                           | 18,6 | 19,1 | 19,6 | 18,2                                  | 18,7 | 18,6                 | 19,1 | 19,6 |
|                      | 6H  | 18,0                                | 18,5                                           | 18,5 | 18,9 | 19,5 | 18,0                                  | 18,5 | 18,5                 | 18,9 | 19,5 |
|                      | 8H  | 18,0                                | 18,4                                           | 18,5 | 18,8 | 19,4 | 18,0                                  | 18,4 | 18,5                 | 18,8 | 19,4 |
|                      | 12H | 18,0                                | 18,2                                           | 18,5 | 18,7 | 19,3 | 18,0                                  | 18,2 | 18,5                 | 18,7 | 19,3 |
| 12H                  | 4H  | 18,2                                | 18,6                                           | 18,7 | 19,0 | 19,5 | 18,2                                  | 18,6 | 18,7                 | 19,0 | 19,5 |
|                      | 6H  | 18,0                                | 18,3                                           | 18,5 | 18,8 | 19,4 | 18,0                                  | 18,3 | 18,5                 | 18,8 | 19,4 |
|                      | 8H  | 18,0                                | 18,2                                           | 18,5 | 18,7 | 19,3 | 18,0                                  | 18,2 | 18,5                 | 18,7 | 19,3 |

|                       |                                 |                            |
|-----------------------|---------------------------------|----------------------------|
| Leuchtdichten-Tabelle | Max. für $\gamma \geq 65^\circ$ | Lichttechnische            |
|                       |                                 | Abmessungen in mm: D = 135 |

|          |                       |    |
|----------|-----------------------|----|
| C-Ebenen |                       | 0° |
| $\gamma$ | Leuchtdichte in cd/m² |    |
| 45°      | 18365.8               |    |
| 50°      | 8736.1                |    |
| 55°      | 4134.8                |    |
| 60°      | 1657.6                |    |
| 65°      | 397.5                 |    |
| 70°      | 258.7                 |    |
| 75°      | 318.9                 |    |
| 80°      | 435.9                 |    |
| 85°      | 809.1                 |    |

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Familie  
Lunis 21

Bestell-Nr.: 51DB15MD91C  
EAN: 4069025013385

LP-Nummer  
59675\_2

Leuchtdichten in cd/m²

γ 65°

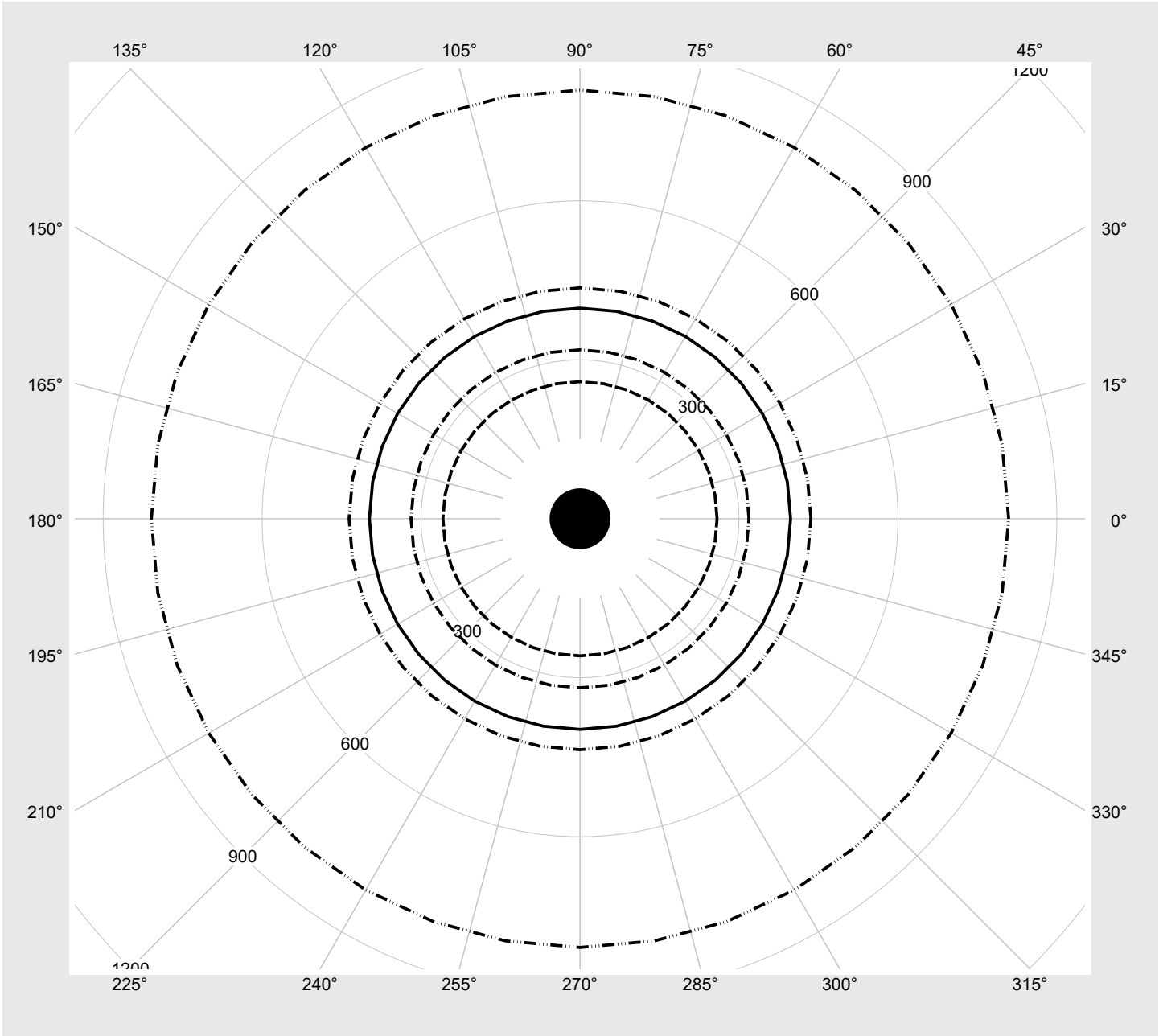
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Lichttechnischer Prüfbefund

|                                                        |                                                              |                                    |
|--------------------------------------------------------|--------------------------------------------------------------|------------------------------------|
| <b>Familie</b><br><b>Lunis 21</b>                      | <b>Bestell-Nr.: 51DB15MD91C</b><br><b>EAN: 4069025013385</b> | <b>LP-Nummer</b><br><b>59675_2</b> |
| <b>Multilumen-Tabelle</b><br>Umgebungstemperatur: 25°C |                                                              | <b>siteco</b>                      |

| DIP-Stufe | Schalterstellung |     |     |     | Lichtstrom<br>[lm] | Systemleistung<br>[W] |
|-----------|------------------|-----|-----|-----|--------------------|-----------------------|
|           | 1                | 2   | 3   | 4   |                    |                       |
| 7         | OFF              | ON  | ON  | ON  | 3790               | 21.7                  |
| 6         | OFF              | ON  | ON  | OFF | 3550               | 20.3                  |
| 5         | OFF              | ON  | OFF | ON  | 3380               | 19.2                  |
| 4         | OFF              | ON  | OFF | OFF | 3140               | 17.7                  |
| 3         | OFF              | OFF | ON  | ON  | 2750               | 15.5                  |
| 2         | OFF              | OFF | ON  | OFF | 2450               | 13.7                  |
| 1         | OFF              | OFF | OFF | ON  | 2180               | 12.2                  |
| 0         | OFF              | OFF | OFF | OFF | 1870               | 10.5                  |