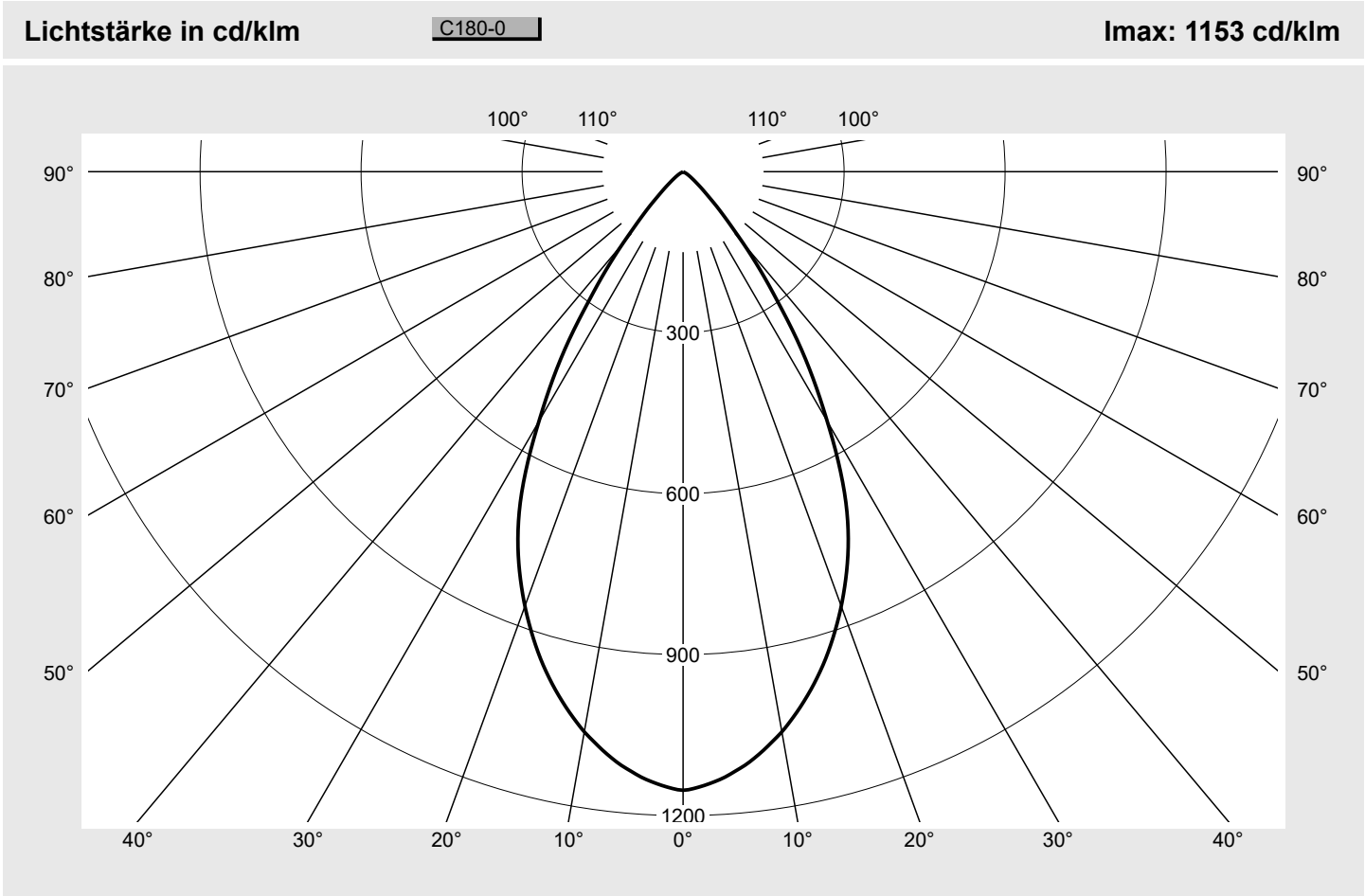


Lichttechnischer Prüfbefund

|                                                                                                                                     |                                                                                                  |                                                                                                                                                                                                                                           |                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <div>Familie</div> <div>Lunis 21</div> <div></div> | <div>Bestell-Nr.: 51DB17MD91C</div> <div>EAN: 4058352047941</div>                                |                                                                                                                                                                                                                                           | <div>LP-Nummer</div> <div>59679_1</div>                                |
|                                                                                                                                     | <div>Ausführung</div>                                                                            | <div>Einbauleuchte, Kombinierte Linsen und Reflektor Optik, Reflektor, schwarz, rotationssymmetrisch, breit strahlend, einstellbare Farbtemperatur: 3000K   4000K   6500K, UGR≤19 (L65≤1000cd/m²)</div>                                   |                                                                        |
|                                                                                                                                     | <div>Bestückung</div> <div>Betriebsgerät</div> <div>Einstellung</div> <div>Bemessungswerte</div> | <div>LED 3000 K   CRI ≥ 80</div> <div>EVG-Multilumen</div> <div>indiv. Einstellung: DIP-Stufe=1, Farbtemperatur 3000K</div> <div>Nettolichtstrom = 1790 lm</div> <div>Systemleistung = 12.2 W</div> <div>Lichtausbeute = 146.7 lm/W</div> | <div>Seriendokumentation</div> <div>27.09.2024</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.: 51DB17MD91C<br>EAN: 4058352047941 | LP-Nummer<br>59679_1 |
| Wertetabelle Lichtstärkemessung |                                                | Maximale Lichtstärke |
|                                 |                                                | siteco               |

| C-<br>Ebenen | 0°                    | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-----------------------|----------------------|-------------------|
| γ            | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                   |
| 0°           | 1152.7                | 0.3                  | 0.3               |
| 1°           | 1149.6                | 2.2                  | 2.5               |
| 2°           | 1144.3                | 4.4                  | 6.9               |
| 3°           | 1138.0                | 6.5                  | 13.4              |
| 4°           | 1130.6                | 8.6                  | 22.0              |
| 5°           | 1121.1                | 10.7                 | 32.8              |
| 6°           | 1111.6                | 12.7                 | 45.5              |
| 7°           | 1100.1                | 14.7                 | 60.2              |
| 8°           | 1087.4                | 16.6                 | 76.8              |
| 9°           | 1073.7                | 18.4                 | 95.2              |
| 10°          | 1060.0                | 20.2                 | 115.4             |
| 11°          | 1044.0                | 21.8                 | 137.2             |
| 12°          | 1027.3                | 23.4                 | 160.7             |
| 13°          | 1009.8                | 24.9                 | 185.6             |
| 14°          | 991.5                 | 26.3                 | 211.9             |
| 15°          | 972.2                 | 27.6                 | 239.5             |
| 16°          | 952.2                 | 28.8                 | 268.3             |
| 17°          | 930.8                 | 29.8                 | 298.1             |
| 18°          | 908.5                 | 30.8                 | 328.9             |
| 19°          | 885.4                 | 31.6                 | 360.5             |
| 20°          | 861.7                 | 32.3                 | 392.8             |
| 21°          | 836.8                 | 32.9                 | 425.7             |
| 22°          | 811.3                 | 33.3                 | 459.0             |
| 23°          | 784.8                 | 33.6                 | 492.7             |
| 24°          | 756.8                 | 33.8                 | 526.4             |
| 25°          | 726.6                 | 33.7                 | 560.1             |
| 26°          | 694.1                 | 33.4                 | 593.5             |
| 27°          | 658.0                 | 32.8                 | 626.2             |
| 28°          | 619.0                 | 31.9                 | 658.1             |
| 29°          | 578.6                 | 30.8                 | 688.8             |
| 30°          | 537.2                 | 29.5                 | 718.3             |
| 31°          | 498.6                 | 28.2                 | 746.5             |
| 32°          | 460.9                 | 26.8                 | 773.2             |
| 33°          | 423.0                 | 25.3                 | 798.5             |
| 34°          | 383.8                 | 23.5                 | 822.0             |
| 35°          | 342.3                 | 21.5                 | 843.6             |
| 36°          | 301.8                 | 19.5                 | 863.0             |
| 37°          | 267.7                 | 17.7                 | 880.7             |
| 38°          | 235.7                 | 15.9                 | 896.6             |
| 39°          | 204.6                 | 14.1                 | 910.7             |
| 40°          | 174.7                 | 12.3                 | 923.0             |
| 41°          | 146.5                 | 10.5                 | 933.6             |
| 42°          | 125.1                 | 9.2                  | 942.8             |
| 43°          | 106.6                 | 8.0                  | 950.7             |
| 44°          | 91.0                  | 6.9                  | 957.7             |
| 45°          | 75.3                  | 5.8                  | 963.5             |
| 46°          | 63.0                  | 5.0                  | 968.5             |

| C-<br>Ebenen | 0°                    | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-----------------------|----------------------|-------------------|
| γ            | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                   |
| 47°          | 53.9                  | 4.3                  | 972.8             |
| 48°          | 46.1                  | 3.8                  | 976.5             |
| 49°          | 39.0                  | 3.2                  | 979.8             |
| 50°          | 33.0                  | 2.8                  | 982.5             |
| 51°          | 28.6                  | 2.4                  | 985.0             |
| 52°          | 24.6                  | 2.1                  | 987.1             |
| 53°          | 21.0                  | 1.8                  | 988.9             |
| 54°          | 18.3                  | 1.6                  | 990.6             |
| 55°          | 15.8                  | 1.4                  | 992.0             |
| 56°          | 13.5                  | 1.2                  | 993.2             |
| 57°          | 11.6                  | 1.1                  | 994.3             |
| 58°          | 9.8                   | 0.9                  | 995.2             |
| 59°          | 8.2                   | 0.8                  | 996.0             |
| 60°          | 6.6                   | 0.6                  | 996.6             |
| 61°          | 5.3                   | 0.5                  | 997.1             |
| 62°          | 4.1                   | 0.4                  | 997.5             |
| 63°          | 3.1                   | 0.3                  | 997.8             |
| 64°          | 2.2                   | 0.2                  | 998.0             |
| 65°          | 1.5                   | 0.2                  | 998.2             |
| 66°          | 1.1                   | 0.1                  | 998.3             |
| 67°          | 1.0                   | 0.1                  | 998.4             |
| 68°          | 0.9                   | 0.1                  | 998.5             |
| 69°          | 0.9                   | 0.1                  | 998.6             |
| 70°          | 0.9                   | 0.1                  | 998.7             |
| 71°          | 0.9                   | 0.1                  | 998.7             |
| 72°          | 0.8                   | 0.1                  | 998.8             |
| 73°          | 0.8                   | 0.1                  | 998.9             |
| 74°          | 0.8                   | 0.1                  | 999.0             |
| 75°          | 0.8                   | 0.1                  | 999.1             |
| 76°          | 0.7                   | 0.1                  | 999.2             |
| 77°          | 0.7                   | 0.1                  | 999.2             |
| 78°          | 0.7                   | 0.1                  | 999.3             |
| 79°          | 0.7                   | 0.1                  | 999.4             |
| 80°          | 0.7                   | 0.1                  | 999.5             |
| 81°          | 0.6                   | 0.1                  | 999.5             |
| 82°          | 0.6                   | 0.1                  | 999.6             |
| 83°          | 0.6                   | 0.1                  | 999.7             |
| 84°          | 0.6                   | 0.1                  | 999.7             |
| 85°          | 0.5                   | 0.1                  | 999.8             |
| 86°          | 0.5                   | 0.1                  | 999.8             |
| 87°          | 0.5                   | 0.1                  | 999.9             |
| 88°          | 0.5                   | 0.1                  | 999.9             |
| 89°          | 0.5                   | 0.1                  | 1000.0            |
| 90°          | 0.0                   | 0.0                  | 1000.0            |
| 180°         | 0.0                   | 0.0                  | 1000.0            |

Lichttechnischer Prüfbefund

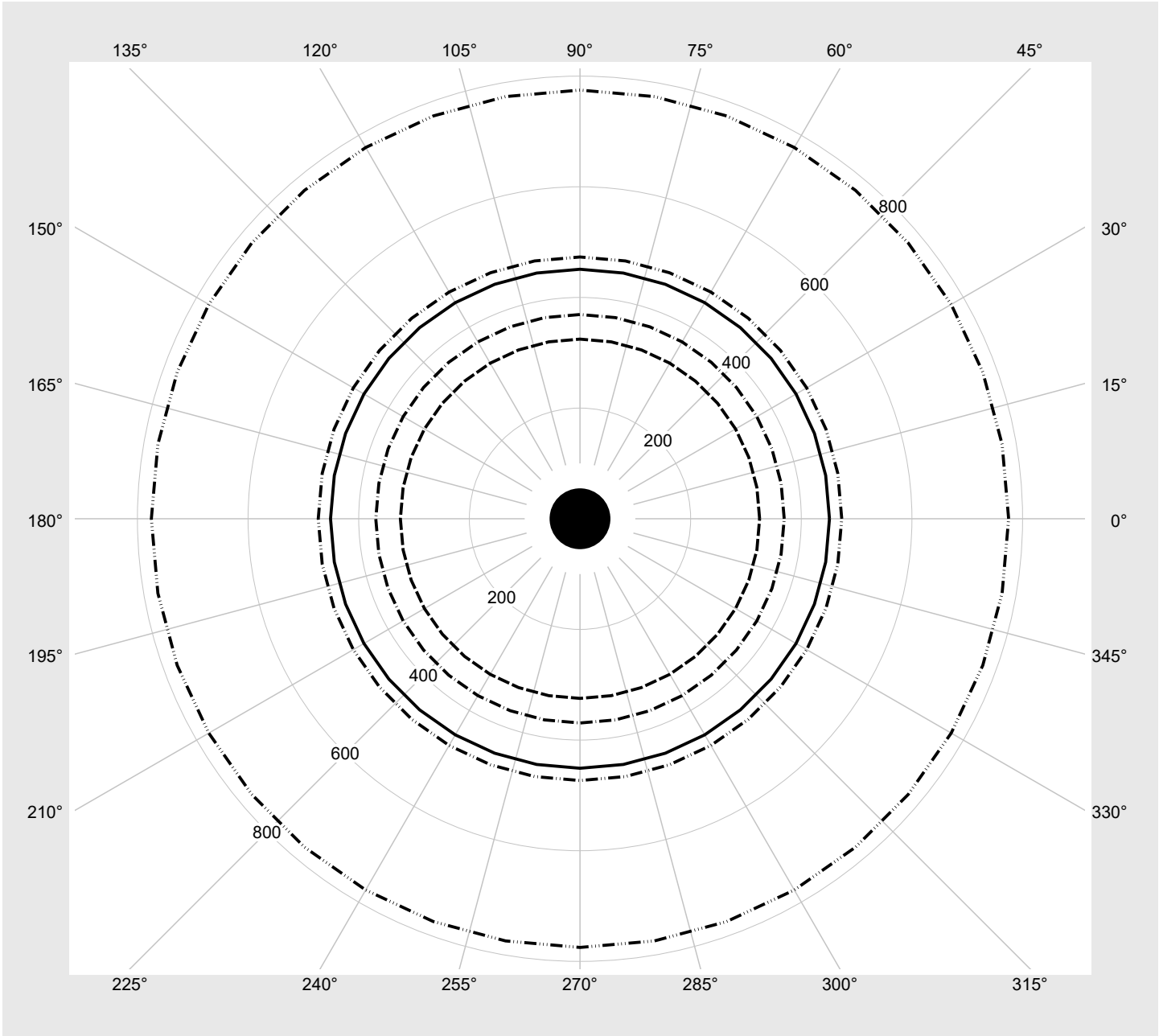
|                      |     |                                     |                                                |      |      |      |                                       |      |                      |      |      |
|----------------------|-----|-------------------------------------|------------------------------------------------|------|------|------|---------------------------------------|------|----------------------|------|------|
| Familie<br>Lunis 21  |     |                                     | Bestell-Nr.: 51DB17MD91C<br>EAN: 4058352047941 |      |      |      |                                       |      | LP-Nummer<br>59679_1 |      |      |
| 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  | 17,7                                | 18,9                                           | 18,1 | 19,2 | 19,5 | 17,7                                  | 18,9 | 18,1                 | 19,2 | 19,5 |
|                      | 3H  | 17,6                                | 18,6                                           | 17,9 | 18,9 | 19,3 | 17,6                                  | 18,6 | 17,9                 | 18,9 | 19,3 |
|                      | 4H  | 17,5                                | 18,4                                           | 17,9 | 18,8 | 19,1 | 17,5                                  | 18,4 | 17,9                 | 18,8 | 19,1 |
|                      | 6H  | 17,4                                | 18,2                                           | 17,8 | 18,6 | 19,0 | 17,4                                  | 18,2 | 17,8                 | 18,6 | 19,0 |
|                      | 8H  | 17,5                                | 18,2                                           | 17,9 | 18,6 | 19,0 | 17,5                                  | 18,2 | 17,9                 | 18,6 | 19,0 |
|                      | 12H | 17,5                                | 18,1                                           | 17,9 | 18,5 | 18,9 | 17,5                                  | 18,1 | 17,9                 | 18,5 | 18,9 |
| 4H                   | 2H  | 17,5                                | 18,4                                           | 17,9 | 18,8 | 19,2 | 17,5                                  | 18,4 | 17,9                 | 18,8 | 19,2 |
|                      | 3H  | 17,3                                | 18,1                                           | 17,7 | 18,5 | 18,9 | 17,3                                  | 18,1 | 17,7                 | 18,5 | 18,9 |
|                      | 4H  | 17,2                                | 17,9                                           | 17,7 | 18,3 | 18,8 | 17,2                                  | 17,9 | 17,7                 | 18,3 | 18,8 |
|                      | 6H  | 17,1                                | 17,7                                           | 17,6 | 18,1 | 18,6 | 17,1                                  | 17,7 | 17,6                 | 18,1 | 18,6 |
|                      | 8H  | 17,1                                | 17,6                                           | 17,6 | 18,1 | 18,5 | 17,1                                  | 17,6 | 17,6                 | 18,1 | 18,5 |
|                      | 12H | 17,1                                | 17,5                                           | 17,6 | 18,0 | 18,5 | 17,1                                  | 17,5 | 17,6                 | 18,0 | 18,5 |
| 8H                   | 4H  | 17,1                                | 17,6                                           | 17,6 | 18,0 | 18,5 | 17,1                                  | 17,6 | 17,6                 | 18,0 | 18,5 |
|                      | 6H  | 17,0                                | 17,4                                           | 17,5 | 17,9 | 18,4 | 17,0                                  | 17,4 | 17,5                 | 17,9 | 18,4 |
|                      | 8H  | 16,9                                | 17,3                                           | 17,4 | 17,8 | 18,3 | 16,9                                  | 17,3 | 17,4                 | 17,8 | 18,3 |
|                      | 12H | 16,9                                | 17,2                                           | 17,4 | 17,7 | 18,2 | 16,9                                  | 17,2 | 17,4                 | 17,7 | 18,2 |
| 12H                  | 4H  | 17,1                                | 17,5                                           | 17,6 | 18,0 | 18,5 | 17,1                                  | 17,5 | 17,6                 | 18,0 | 18,5 |
|                      | 6H  | 17,0                                | 17,3                                           | 17,5 | 17,8 | 18,3 | 17,0                                  | 17,3 | 17,5                 | 17,8 | 18,3 |
|                      | 8H  | 16,9                                | 17,2                                           | 17,4 | 17,7 | 18,2 | 16,9                                  | 17,2 | 17,4                 | 17,7 | 18,2 |

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

|          |                       |    |
|----------|-----------------------|----|
| C-Ebenen |                       | 0° |
| $\gamma$ | Leuchtdichte in cd/m² |    |
| 45°      | 13316.4               |    |
| 50°      | 6418.4                |    |
| 55°      | 3445.9                |    |
| 60°      | 1656.2                |    |
| 65°      | 451.0                 |    |
| 70°      | 324.7                 |    |
| 75°      | 369.1                 |    |
| 80°      | 473.1                 |    |
| 85°      | 774.8                 |    |

Lichttechnischer Prüfbefund

|                                                                                                                                 |                                                              |                                    |  |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------|--|
| <b>Familie</b><br><b>Lunis 21</b>                                                                                               | <b>Bestell-Nr.: 51DB17MD91C</b><br><b>EAN: 4058352047941</b> | <b>LP-Nummer</b><br><b>59679_1</b> |  |
| <b>Leuchtdichten in cd/m²</b> <div> <div>γ 65°</div> <div>γ 70°</div> <div>γ 75°</div> <div>γ 80°</div> <div>γ 85°</div> </div> |                                                              |                                    |  |



Lichttechnischer Prüfbefund

|                                                        |                                                              |                                    |
|--------------------------------------------------------|--------------------------------------------------------------|------------------------------------|
| <b>Familie</b><br><b>Lunis 21</b>                      | <b>Bestell-Nr.: 51DB17MD91C</b><br><b>EAN: 4058352047941</b> | <b>LP-Nummer</b><br><b>59679_1</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  | 3110               | 21.7                  |
| 6         | OFF              | ON  | ON  | OFF | 2910               | 20.3                  |
| 5         | OFF              | ON  | OFF | ON  | 2770               | 19.2                  |
| 4         | OFF              | ON  | OFF | OFF | 2580               | 17.7                  |
| 3         | OFF              | OFF | ON  | ON  | 2260               | 15.5                  |
| 2         | OFF              | OFF | ON  | OFF | 2010               | 13.7                  |
| 1         | OFF              | OFF | OFF | ON  | 1790               | 12.2                  |
| 0         | OFF              | OFF | OFF | OFF | 1530               | 10.4                  |