

## Lichttechnischer Prüfbefund

**Familie**  
**Lunis 21**

**Bestell-Nr.: 51DB12MC13D1D**  
**EAN: 4069025446091**

**LP-Nummer**  
**59858\_12**

**Seriendokumentation**  
**13.10.2025**



**Ausführung** Einbauleuchte, Kombinierte Linsen und Reflektor Optik, Reflektor, weiß, rotationssymmetrisch, medium strahlend, UGR≤22

**Bestückung** LED 4000 K | CRI ≥ 90

**Betriebsgerät** EVG-Multilumen

**Einstellung** Werkseinstellung: DIP-Stufe=4

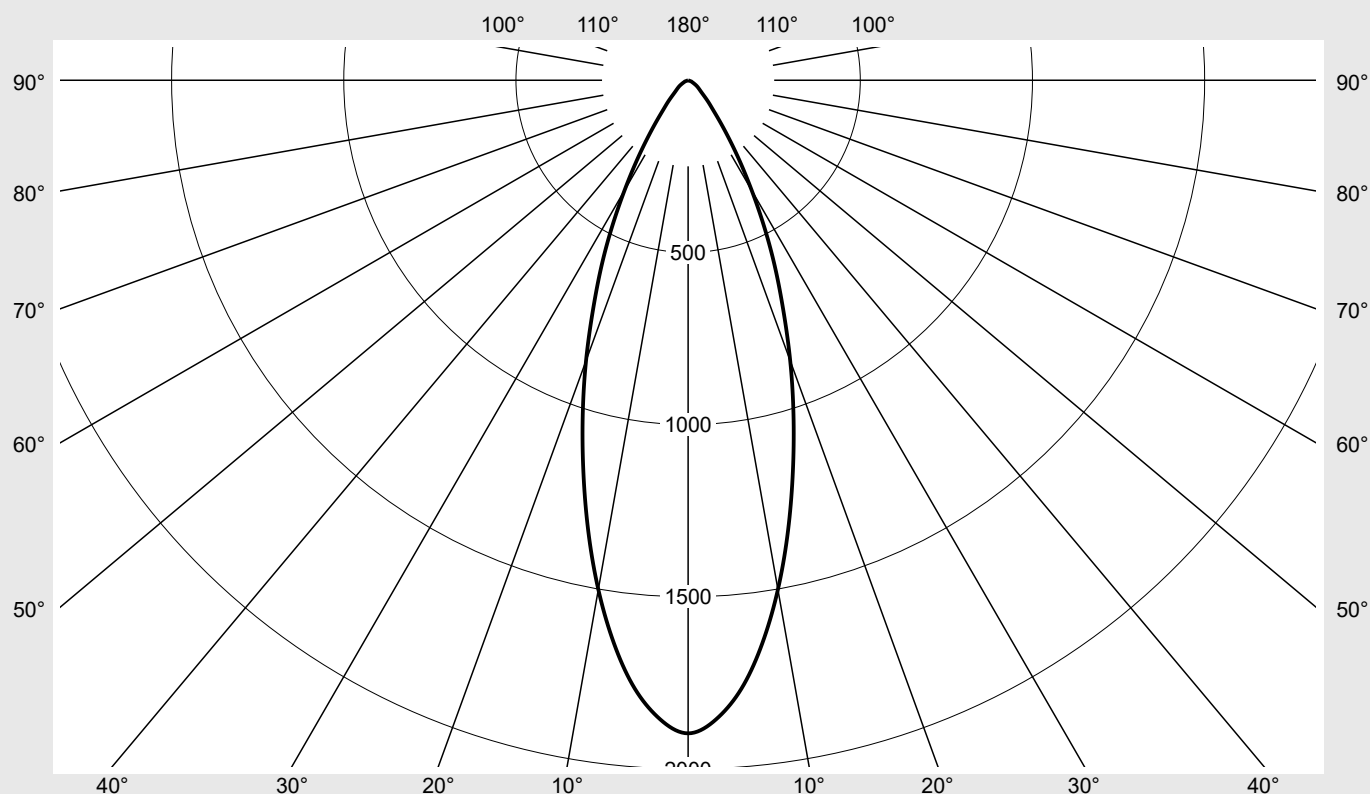
**Bemessungswerte** Nettolichtstrom = 1860 lm  
Systemleistung = 11.6 W  
Lichtausbeute = 160.3 lm/W

**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**Imax: 1897 cd/klm**



### Klassifizierungen

DIN 5040 A 7 0  
CIE N1=90 N2=98 N3=99  
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>         |

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| C-<br>Ebenen | 0°                    | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-----------------------|----------------------|-------------------|
| γ            | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                   |
| 0,0°         | 1896.6                | 2.8                  | 2.8               |
| 2,5°         | 1857.8                | 22.2                 | 25.1              |
| 5,0°         | 1773.9                | 42.4                 | 67.4              |
| 7,5°         | 1649.6                | 59.0                 | 126.5             |
| 10,0°        | 1501.7                | 71.5                 | 197.9             |
| 12,5°        | 1340.3                | 79.5                 | 277.5             |
| 15,0°        | 1175.5                | 83.4                 | 360.9             |
| 17,5°        | 1017.6                | 83.9                 | 444.8             |
| 20,0°        | 866.8                 | 81.3                 | 526.0             |
| 22,5°        | 722.1                 | 75.7                 | 601.8             |
| 25,0°        | 595.4                 | 69.0                 | 670.8             |
| 27,5°        | 476.6                 | 60.3                 | 731.1             |
| 30,0°        | 369.4                 | 50.6                 | 781.7             |
| 32,5°        | 280.5                 | 41.3                 | 823.0             |
| 35,0°        | 207.8                 | 32.7                 | 855.7             |
| 37,5°        | 153.0                 | 25.5                 | 881.2             |
| 40,0°        | 113.7                 | 20.0                 | 901.3             |
| 42,5°        | 89.4                  | 16.6                 | 917.8             |
| 45,0°        | 69.0                  | 13.4                 | 931.2             |
| 47,5°        | 53.9                  | 10.9                 | 942.1             |
| 50,0°        | 44.9                  | 9.4                  | 951.5             |
| 52,5°        | 38.5                  | 8.4                  | 959.9             |
| 55,0°        | 33.0                  | 7.4                  | 967.3             |
| 57,5°        | 27.4                  | 6.3                  | 973.7             |
| 60,0°        | 21.4                  | 5.1                  | 978.7             |
| 62,5°        | 16.7                  | 4.1                  | 982.8             |
| 65,0°        | 13.0                  | 3.2                  | 986.0             |
| 67,5°        | 11.1                  | 2.8                  | 988.9             |
| 70,0°        | 9.6                   | 2.5                  | 991.3             |
| 72,5°        | 8.3                   | 2.2                  | 993.5             |
| 75,0°        | 7.0                   | 1.9                  | 995.4             |
| 77,5°        | 5.8                   | 1.6                  | 996.9             |
| 80,0°        | 4.6                   | 1.2                  | 998.2             |
| 82,5°        | 3.4                   | 0.9                  | 999.1             |
| 85,0°        | 2.2                   | 0.6                  | 999.7             |
| 87,5°        | 1.1                   | 0.3                  | 1000.0            |
| 90,0°        | 0.0                   | 0.0                  | 1000.0            |

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|                      |     |                                     |                                                  |      |      |      |                                       |      |                       |      |      |
|----------------------|-----|-------------------------------------|--------------------------------------------------|------|------|------|---------------------------------------|------|-----------------------|------|------|
| Familie<br>Lunis 21  |     |                                     | Bestell-Nr.: 51DB12MC13D1D<br>EAN: 4069025446091 |      |      |      |                                       |      | LP-Nummer<br>59858_12 |      |      |
| 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  | 19,7                                | 20,8                                             | 20,0 | 21,2 | 21,5 | 19,7                                  | 20,8 | 20,0                  | 21,2 | 21,5 |
|                      | 3H  | 19,9                                | 20,9                                             | 20,3 | 21,2 | 21,6 | 19,9                                  | 20,9 | 20,3                  | 21,2 | 21,6 |
|                      | 4H  | 20,0                                | 20,9                                             | 20,4 | 21,3 | 21,7 | 20,0                                  | 20,9 | 20,4                  | 21,3 | 21,7 |
|                      | 6H  | 20,1                                | 20,9                                             | 20,5 | 21,3 | 21,7 | 20,1                                  | 20,9 | 20,5                  | 21,3 | 21,7 |
|                      | 8H  | 20,3                                | 20,9                                             | 20,7 | 21,3 | 21,7 | 20,3                                  | 20,9 | 20,7                  | 21,3 | 21,7 |
|                      | 12H | 20,3                                | 20,9                                             | 20,7 | 21,3 | 21,7 | 20,3                                  | 20,9 | 20,7                  | 21,3 | 21,7 |
| 4H                   | 2H  | 19,7                                | 20,6                                             | 20,1 | 21,0 | 21,4 | 19,7                                  | 20,6 | 20,1                  | 21,0 | 21,4 |
|                      | 3H  | 20,0                                | 20,8                                             | 20,4 | 21,1 | 21,6 | 20,0                                  | 20,8 | 20,4                  | 21,1 | 21,6 |
|                      | 4H  | 20,2                                | 20,9                                             | 20,6 | 21,3 | 21,7 | 20,2                                  | 20,9 | 20,6                  | 21,3 | 21,7 |
|                      | 6H  | 20,4                                | 20,9                                             | 20,8 | 21,4 | 21,8 | 20,4                                  | 20,9 | 20,8                  | 21,4 | 21,8 |
|                      | 8H  | 20,5                                | 21,0                                             | 20,9 | 21,4 | 21,9 | 20,5                                  | 21,0 | 20,9                  | 21,4 | 21,9 |
|                      | 12H | 20,6                                | 21,0                                             | 21,1 | 21,4 | 21,9 | 20,6                                  | 21,0 | 21,1                  | 21,4 | 21,9 |
| 8H                   | 4H  | 20,2                                | 20,7                                             | 20,7 | 21,2 | 21,6 | 20,2                                  | 20,7 | 20,7                  | 21,2 | 21,6 |
|                      | 6H  | 20,5                                | 20,9                                             | 21,0 | 21,4 | 21,9 | 20,5                                  | 20,9 | 21,0                  | 21,4 | 21,9 |
|                      | 8H  | 20,6                                | 21,0                                             | 21,1 | 21,4 | 22,0 | 20,6                                  | 21,0 | 21,1                  | 21,4 | 22,0 |
|                      | 12H | 20,7                                | 21,0                                             | 21,2 | 21,5 | 22,1 | 20,7                                  | 21,0 | 21,2                  | 21,5 | 22,1 |
| 12H                  | 4H  | 20,2                                | 20,6                                             | 20,7 | 21,1 | 21,6 | 20,2                                  | 20,6 | 20,7                  | 21,1 | 21,6 |
|                      | 6H  | 20,5                                | 20,8                                             | 21,0 | 21,3 | 21,8 | 20,5                                  | 20,8 | 21,0                  | 21,3 | 21,8 |
|                      | 8H  | 20,6                                | 20,9                                             | 21,2 | 21,4 | 22,0 | 20,6                                  | 20,9 | 21,2                  | 21,4 | 22,0 |

|                       |                       |                                 |                                              |
|-----------------------|-----------------------|---------------------------------|----------------------------------------------|
| Leuchtdichten-Tabelle |                       | Max. für $\gamma \geq 65^\circ$ | Lichttechnische<br>Abmessungen in mm: D = 84 |
| C-<br>Ebenen          | 0°                    |                                 |                                              |
| $\gamma$              | Leuchtdichte in cd/m² |                                 |                                              |
| 45,0°                 | 32740.4               |                                 |                                              |
| 50,0°                 | 23453.0               |                                 |                                              |
| 55,0°                 | 19301.4               |                                 |                                              |
| 60,0°                 | 14334.9               |                                 |                                              |
| 65,0°                 | 10351.3               |                                 |                                              |
| 70,0°                 | 9445.3                |                                 |                                              |
| 75,0°                 | 9100.8                |                                 |                                              |
| 80,0°                 | 8914.2                |                                 |                                              |
| 85,0°                 | 8495.2                |                                 |                                              |

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|                                   |                                                                |                                     |
|-----------------------------------|----------------------------------------------------------------|-------------------------------------|
| <b>Familie</b><br><b>Lunis 21</b> | <b>Bestell-Nr.: 51DB12MC13D1D</b><br><b>EAN: 4069025446091</b> | <b>LP-Nummer</b><br><b>59858_12</b> |
|-----------------------------------|----------------------------------------------------------------|-------------------------------------|

**Leuchtdichten in cd/m²**

γ 65°

γ 70°

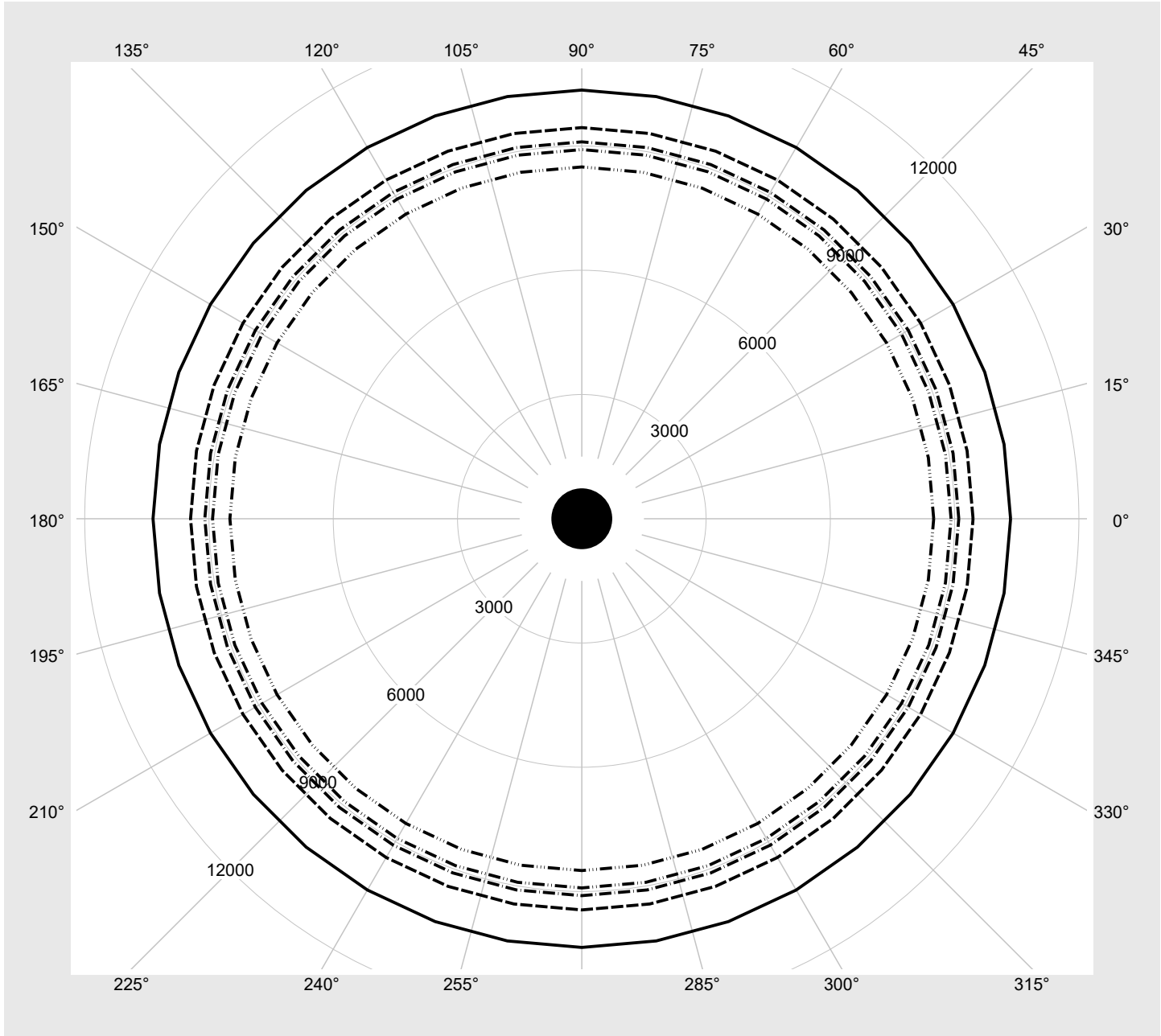
γ 75°

γ 80°

γ 85°

sit

eco



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|                                                        |                                                                |                                     |
|--------------------------------------------------------|----------------------------------------------------------------|-------------------------------------|
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| <b>Multilumen-Tabelle</b><br>Umgebungstemperatur: 25°C |                                                                | <b>sITeco</b>                       |

| DIP-Stufe | Schalterstellung |     |     | Lichtstrom<br>[lm] | Systemleistung<br>[W] |
|-----------|------------------|-----|-----|--------------------|-----------------------|
|           | 1                | 2   | 3   |                    |                       |
| 7         | ON               | ON  | ON  | 2720               | 17.5                  |
| 6         | ON               | ON  | OFF | 2440               | 15.5                  |
| 5         | ON               | OFF | ON  | 2150               | 13.5                  |
| 4         | ON               | OFF | OFF | 1860               | 11.6                  |
| 3         | OFF              | ON  | ON  | 1560               | 9.6                   |
| 2         | OFF              | ON  | OFF | 1250               | 7.6                   |
| 1         | OFF              | OFF | ON  | 940                | 5.9                   |