

## Photometric test report

**Family**  
**Highbay 11**

**Order number: 51HN11DB4WDA**  
**EAN: 4069025358219**

**LP number**  
**59711\_140**

**serial**  
**documentation**  
**14.02.2025**

**sit**eco



**Version** primary light control with lens, PMMA, housing, white, narrow distribution

**Lamps** LED 4000 K | CRI ≥ 80

**Controlgear** ECG-DALI

**Setting** AC-mode

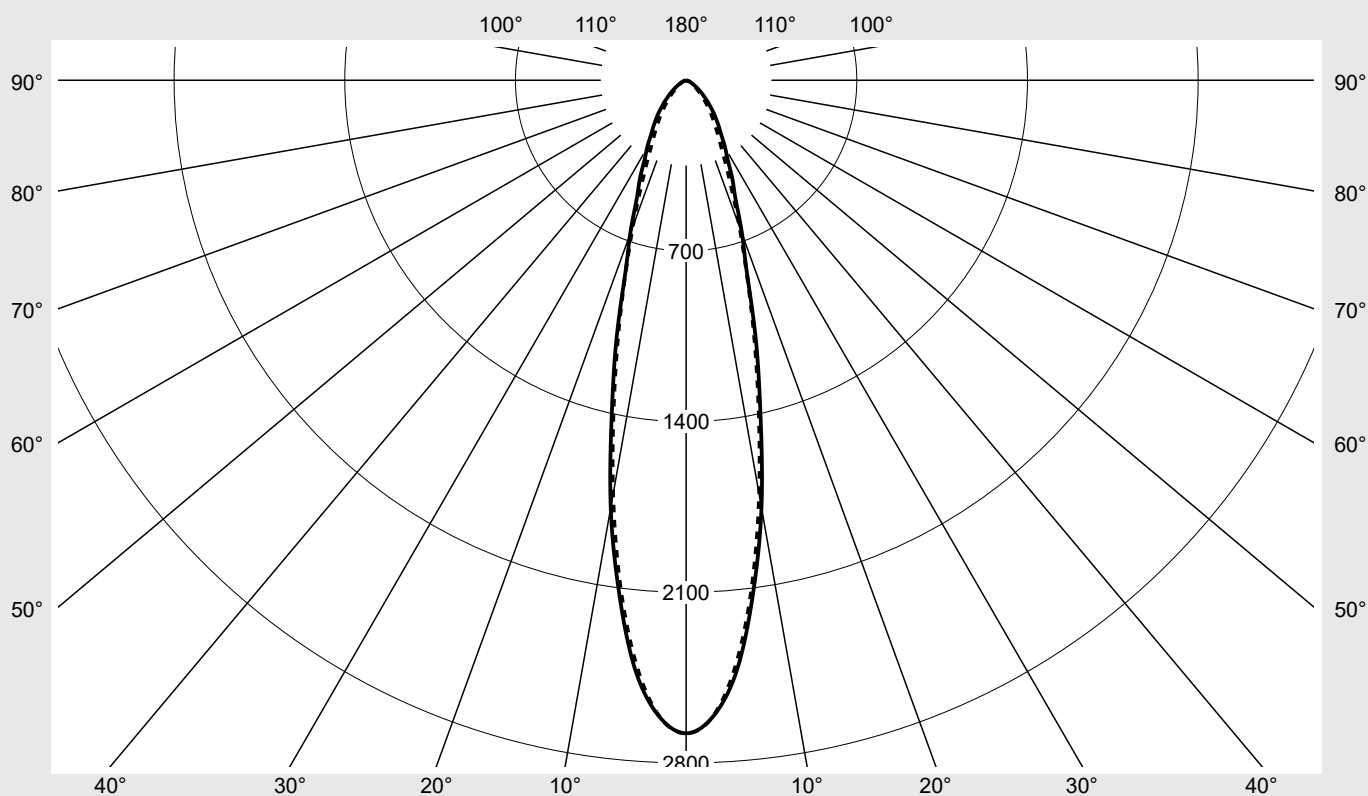
**Rated values** Net luminous flux = 63000 lm  
Power consumption = 329.9 W  
Luminous efficacy = 191 lm/W

**Luminous intensity in cd/klm**

**C180-0**

**C270-90**

**Imax: 2679 cd/klm**



### Classifications

DIN 5040 A 7 0  
CIE N1=85 N2=97 N3=100  
N4=100 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  100.0%  
 $\phi_o$  0.0%

### Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Highbay 11                     | Order number: 51HN11DB4WDA<br>EAN: 4069025358219 | LP number<br>59711_140     |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |

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| C-<br>planes | 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° | Phi-zone                | Total<br>Phi-zone |
|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|-------------------------|-------------------|
| γ            | Luminous intensity in cd/klm |                             |                             |                             |                             |                             |             | Luminous flux in lm/klm |                   |
| 0,0°         | 2678.6                       | 2678.6                      | 2678.6                      | 2678.6                      | 2678.6                      | 2678.6                      | 2678.6      | 4.0                     | 4.0               |
| 2,5°         | 2608.0                       | 2619.4                      | 2619.4                      | 2616.5                      | 2617.6                      | 2616.2                      | 2606.1      | 31.3                    | 35.3              |
| 5,0°         | 2420.1                       | 2415.7                      | 2414.1                      | 2408.4                      | 2406.6                      | 2402.3                      | 2391.7      | 57.6                    | 92.8              |
| 7,5°         | 2113.4                       | 2116.1                      | 2112.3                      | 2103.0                      | 2097.6                      | 2090.5                      | 2079.6      | 75.2                    | 168.1             |
| 10,0°        | 1780.1                       | 1768.7                      | 1762.7                      | 1751.6                      | 1743.6                      | 1735.2                      | 1724.7      | 83.4                    | 251.5             |
| 12,5°        | 1410.1                       | 1409.3                      | 1404.7                      | 1395.9                      | 1388.1                      | 1380.5                      | 1373.1      | 82.8                    | 334.3             |
| 15,0°        | 1106.5                       | 1097.8                      | 1095.0                      | 1089.4                      | 1083.1                      | 1078.4                      | 1073.9      | 77.3                    | 411.5             |
| 17,5°        | 830.1                        | 840.2                       | 835.5                       | 831.1                       | 826.6                       | 824.9                       | 824.1       | 68.5                    | 480.0             |
| 20,0°        | 671.1                        | 661.9                       | 651.8                       | 643.2                       | 639.9                       | 639.4                       | 641.0       | 60.8                    | 540.8             |
| 22,5°        | 531.9                        | 530.5                       | 514.2                       | 498.9                       | 497.0                       | 496.6                       | 496.8       | 53.4                    | 594.2             |
| 25,0°        | 450.6                        | 441.3                       | 420.6                       | 401.3                       | 399.0                       | 395.8                       | 392.4       | 47.9                    | 642.1             |
| 27,5°        | 370.8                        | 368.7                       | 351.4                       | 331.7                       | 326.8                       | 321.1                       | 316.0       | 43.1                    | 685.2             |
| 30,0°        | 320.4                        | 312.1                       | 300.8                       | 284.1                       | 278.0                       | 270.2                       | 264.7       | 39.7                    | 724.9             |
| 32,5°        | 271.0                        | 266.8                       | 259.0                       | 245.6                       | 238.0                       | 229.0                       | 224.7       | 36.5                    | 761.4             |
| 35,0°        | 235.8                        | 228.9                       | 222.7                       | 210.5                       | 201.6                       | 193.0                       | 191.7       | 33.3                    | 794.7             |
| 37,5°        | 204.4                        | 197.8                       | 191.5                       | 181.1                       | 172.0                       | 164.3                       | 162.4       | 30.3                    | 825.0             |
| 40,0°        | 176.7                        | 170.7                       | 163.1                       | 154.3                       | 146.1                       | 138.3                       | 135.6       | 27.3                    | 852.2             |
| 42,5°        | 147.6                        | 145.5                       | 138.6                       | 130.6                       | 123.2                       | 115.8                       | 113.3       | 24.2                    | 876.4             |
| 45,0°        | 126.0                        | 121.8                       | 116.3                       | 109.0                       | 102.0                       | 95.3                        | 93.2        | 21.1                    | 897.6             |
| 47,5°        | 103.2                        | 101.5                       | 97.1                        | 90.9                        | 84.6                        | 78.4                        | 76.7        | 18.3                    | 915.9             |
| 50,0°        | 85.9                         | 82.9                        | 79.4                        | 74.6                        | 69.1                        | 63.7                        | 61.9        | 15.5                    | 931.4             |
| 52,5°        | 69.0                         | 67.2                        | 64.5                        | 61.0                        | 56.2                        | 51.6                        | 49.7        | 13.0                    | 944.4             |
| 55,0°        | 55.6                         | 54.1                        | 52.2                        | 49.5                        | 45.7                        | 41.7                        | 40.0        | 10.9                    | 955.3             |
| 57,5°        | 43.6                         | 43.1                        | 41.8                        | 39.8                        | 37.0                        | 33.6                        | 32.2        | 9.0                     | 964.3             |
| 60,0°        | 33.2                         | 33.3                        | 33.9                        | 32.4                        | 30.5                        | 27.5                        | 26.1        | 7.4                     | 971.7             |
| 62,5°        | 25.9                         | 26.0                        | 27.0                        | 26.2                        | 25.1                        | 22.4                        | 21.3        | 6.1                     | 977.8             |
| 65,0°        | 21.6                         | 21.2                        | 21.7                        | 21.3                        | 20.9                        | 18.8                        | 17.7        | 5.1                     | 982.9             |
| 67,5°        | 17.0                         | 17.1                        | 17.8                        | 17.0                        | 17.3                        | 15.6                        | 14.8        | 4.3                     | 987.2             |
| 70,0°        | 13.5                         | 13.4                        | 14.4                        | 13.6                        | 14.1                        | 13.0                        | 12.4        | 3.5                     | 990.7             |
| 72,5°        | 11.0                         | 10.8                        | 10.9                        | 10.9                        | 11.0                        | 10.7                        | 10.6        | 2.8                     | 993.5             |
| 75,0°        | 9.0                          | 8.4                         | 8.4                         | 8.3                         | 8.6                         | 9.0                         | 8.9         | 2.3                     | 995.8             |
| 77,5°        | 6.6                          | 6.4                         | 6.2                         | 6.2                         | 6.6                         | 7.3                         | 7.4         | 1.8                     | 997.5             |
| 80,0°        | 4.4                          | 4.2                         | 4.1                         | 4.2                         | 4.7                         | 5.7                         | 5.8         | 1.3                     | 998.8             |
| 82,5°        | 2.0                          | 2.1                         | 2.2                         | 2.4                         | 3.0                         | 3.9                         | 4.1         | 0.8                     | 999.6             |
| 85,0°        | 0.8                          | 0.8                         | 0.8                         | 1.0                         | 1.5                         | 2.2                         | 2.4         | 0.4                     | 999.9             |
| 87,5°        | 0.3                          | 0.3                         | 0.3                         | 0.3                         | 0.3                         | 0.4                         | 0.5         | 0.1                     | 1000.0            |
| 90,0°        | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |

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|                              |     |                                                  |      |      |      |      |                    |                        |      |      |
|------------------------------|-----|--------------------------------------------------|------|------|------|------|--------------------|------------------------|------|------|
| Family<br>Highbay 11         |     | Order number: 51HN11DB4WDA<br>EAN: 4069025358219 |      |      |      |      |                    | LP number<br>59711_140 |      |      |
| UGR-Table                    |     | Standard room                                    |      |      |      |      |                    | siteco                 |      |      |
| Reflection factor of ceiling | 0.7 | 0.7                                              | 0.5  | 0.5  | 0.3  | 0.7  | 0.7                | 0.5                    | 0.5  | 0.3  |
| Reflection factor of walls   | 0.5 | 0.3                                              | 0.5  | 0.3  | 0.3  | 0.5  | 0.3                | 0.5                    | 0.3  | 0.3  |
| Reflection factor of floor   | 0.2 | 0.2                                              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2                | 0.2                    | 0.2  | 0.2  |
| Room dimensions              |     | View crosswise (C0)                              |      |      |      |      | View endwise (C90) |                        |      |      |
| x                            | y   |                                                  |      |      |      |      |                    |                        |      |      |
| 2H                           | 2H  | 21.5                                             | 22.6 | 21.8 | 23.0 | 23.3 | 20.3               | 21.5                   | 20.6 | 21.8 |
|                              | 3H  | 21.7                                             | 22.7 | 22.1 | 23.1 | 23.4 | 20.6               | 21.6                   | 21.0 | 21.9 |
|                              | 4H  | 21.8                                             | 22.7 | 22.2 | 23.1 | 23.5 | 20.7               | 21.7                   | 21.1 | 22.0 |
|                              | 6H  | 21.8                                             | 22.7 | 22.3 | 23.0 | 23.4 | 20.9               | 21.7                   | 21.3 | 22.1 |
|                              | 8H  | 21.9                                             | 22.6 | 22.3 | 23.0 | 23.4 | 21.0               | 21.7                   | 21.4 | 22.1 |
|                              | 12H | 21.9                                             | 22.5 | 22.3 | 22.9 | 23.3 | 21.0               | 21.6                   | 21.4 | 22.0 |
| 4H                           | 2H  | 21.5                                             | 22.5 | 21.9 | 22.8 | 23.2 | 20.5               | 21.4                   | 20.9 | 21.8 |
|                              | 3H  | 21.9                                             | 22.6 | 22.3 | 23.0 | 23.4 | 20.9               | 21.7                   | 21.3 | 22.0 |
|                              | 4H  | 22.0                                             | 22.7 | 22.4 | 23.1 | 23.5 | 21.1               | 21.8                   | 21.5 | 22.2 |
|                              | 6H  | 22.0                                             | 22.6 | 22.5 | 23.1 | 23.5 | 21.3               | 21.9                   | 21.7 | 22.3 |
|                              | 8H  | 22.0                                             | 22.5 | 22.5 | 23.0 | 23.5 | 21.3               | 21.9                   | 21.8 | 22.3 |
|                              | 12H | 22.0                                             | 22.4 | 22.5 | 22.9 | 23.4 | 21.4               | 21.8                   | 21.9 | 22.3 |
| 8H                           | 4H  | 22.0                                             | 22.5 | 22.4 | 22.9 | 23.4 | 21.1               | 21.6                   | 21.6 | 22.1 |
|                              | 6H  | 22.0                                             | 22.5 | 22.5 | 22.9 | 23.4 | 21.3               | 21.7                   | 21.8 | 22.2 |
|                              | 8H  | 22.0                                             | 22.4 | 22.5 | 22.9 | 23.4 | 21.4               | 21.8                   | 21.9 | 22.3 |
|                              | 12H | 22.0                                             | 22.3 | 22.5 | 22.8 | 23.3 | 21.5               | 21.8                   | 22.0 | 22.3 |
| 12H                          | 4H  | 21.9                                             | 22.4 | 22.4 | 22.8 | 23.3 | 21.1               | 21.5                   | 21.6 | 22.0 |
|                              | 6H  | 22.0                                             | 22.4 | 22.5 | 22.9 | 23.4 | 21.3               | 21.7                   | 21.8 | 22.1 |
|                              | 8H  | 22.0                                             | 22.3 | 22.5 | 22.8 | 23.4 | 21.4               | 21.7                   | 21.9 | 22.2 |

|                                  |          |                                 |                             |                               |                             |                             |                             |
|----------------------------------|----------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Luminance table                  |          | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | L = 852<br>B = 264          |                             |
| C-planes                         | $\gamma$ | 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° |
|                                  |          |                                 | Luminance in cd/m²          |                               |                             |                             |                             |
| 45,0°<br>50,0°<br>55,0°<br>60,0° | $\gamma$ |                                 | 49904.7                     | 48238.6                       | 46065.6                     | 43184.3                     | 40403.7                     |
|                                  |          |                                 | 37411.9                     | 36109.5                       | 34580.1                     | 32526.8                     | 30088.0                     |
|                                  |          |                                 | 27146.3                     | 26411.3                       | 25496.2                     | 24171.9                     | 22309.9                     |
|                                  |          |                                 | 18625.4                     | 18645.6                       | 18992.3                     | 18145.3                     | 17066.4                     |
| 65,0°<br>70,0°<br>75,0°<br>80,0° | $\gamma$ |                                 | 14300.1                     | 14058.9                       | 14377.7                     | 14145.0                     | 13846.1                     |
|                                  |          |                                 | 11079.3                     | 10945.8                       | 11759.0                     | 11104.7                     | 11523.9                     |
|                                  |          |                                 | 9712.6                      | 9115.2                        | 9135.8                      | 9012.4                      | 9298.1                      |
|                                  |          |                                 | 7085.8                      | 6822.9                        | 6600.3                      | 6719.6                      | 7508.4                      |
| 85,0°                            | $\gamma$ |                                 | 2622.4                      | 2590.2                        | 2709.1                      | 3062.6                      | 4701.6                      |

Photometric test report

Family  
Highbay 11

Order number: 51HN11DB4WDA  
EAN: 4069025358219

LP number  
59711\_140

Luminance values in cd/m²

γ 65°

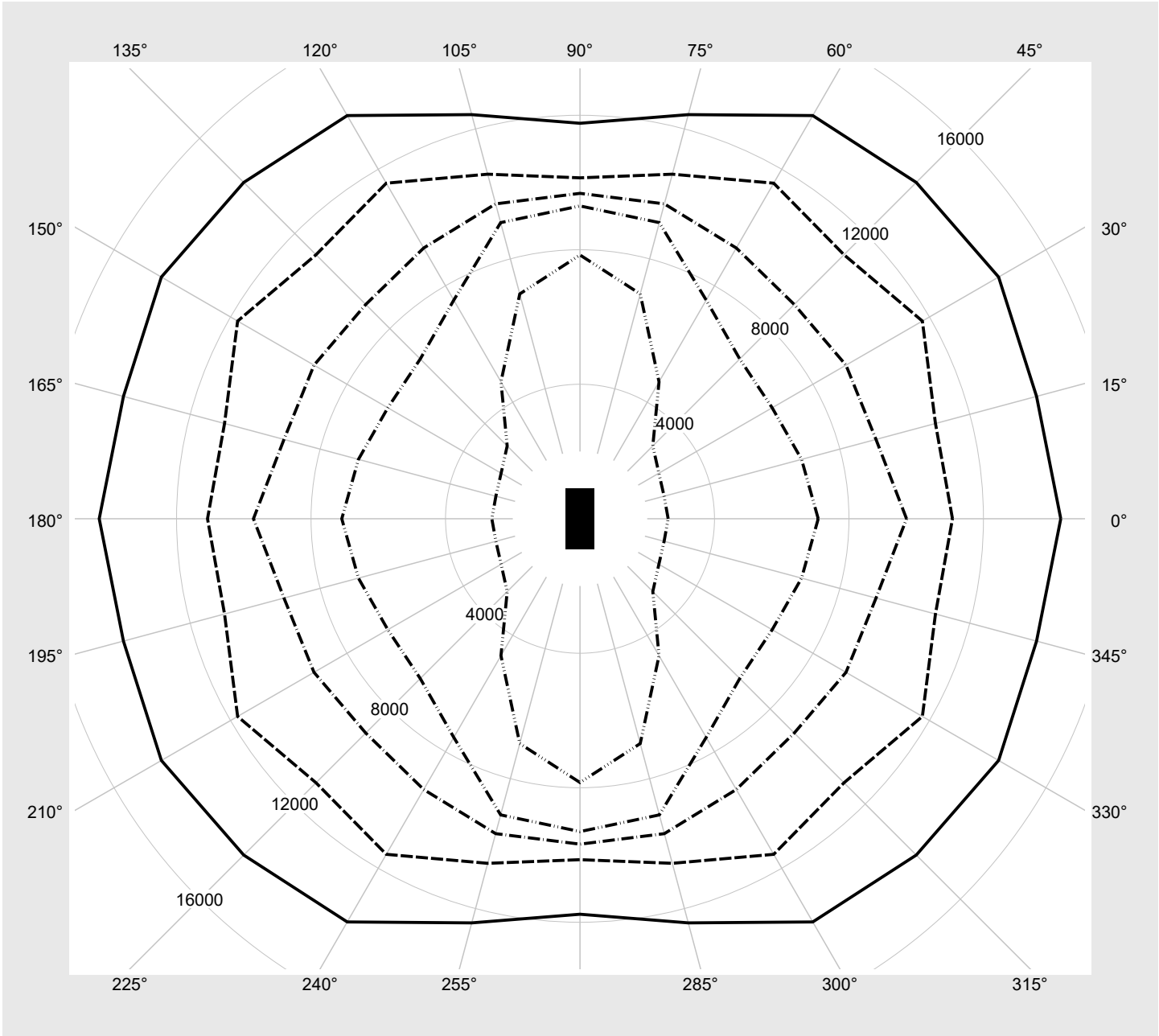
γ 70°

γ 75°

γ 80°

γ 85°

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|                      |                                                  |                                 |
|----------------------|--------------------------------------------------|---------------------------------|
| Family<br>Highbay 11 | Order number: 51HN11DB4WDA<br>EAN: 4069025358219 | LP number<br>59711_140          |
| Dimming levels table |                                                  | environmental temperature: 25°C |



| Luminous flux<br>% | Dimming level<br>linear | Dimming level<br>logarithmic | Luminous flux<br>[lm] | Power consumption<br>[W] |
|--------------------|-------------------------|------------------------------|-----------------------|--------------------------|
| 100                | 254                     | 254                          | 63000                 | 329.9                    |
| 95                 | 240                     | 252                          | 59842                 | 310.6                    |
| 90                 | 226                     | 250                          | 56597                 | 291.9                    |
| 85                 | 213                     | 248                          | 53578                 | 274.3                    |
| 80                 | 199                     | 245                          | 50295                 | 255.6                    |
| 75                 | 186                     | 243                          | 47218                 | 238.5                    |
| 70                 | 173                     | 240                          | 44117                 | 221.4                    |
| 65                 | 160                     | 237                          | 40978                 | 204.4                    |
| 60                 | 147                     | 234                          | 37842                 | 187.6                    |
| 55                 | 134                     | 231                          | 34659                 | 170.8                    |
| 50                 | 121                     | 227                          | 31475                 | 154.3                    |
| 45                 | 108                     | 223                          | 28230                 | 137.7                    |
| 40                 | 96                      | 218                          | 25216                 | 122.6                    |
| 35                 | 84                      | 213                          | 22170                 | 107.5                    |
| 30                 | 71                      | 207                          | 18840                 | 91.4                     |
| 25                 | 59                      | 201                          | 15720                 | 76.8                     |
| 20                 | 47                      | 192                          | 12573                 | 62.2                     |
| 15                 | 35                      | 181                          | 9389                  | 47.8                     |
| 10                 | 24                      | 168                          | 6424                  | 34.5                     |
| 5                  | 12                      | 142                          | 3162                  | 19.5                     |
| 2                  | 5                       | 110                          | 1243                  | 10.6                     |