

## Photometric test report

**Family**  
**Highbay 11 Xtreme**

**Order number: 51HF81DB4WMA**  
**EAN: 4058352919958**

**LP number**  
**59307\_27**

**serial**  
**documentation**  
**15.06.2026**

**siteco**



**Version** narrow distribution, toughened safety glass, chain suspension

**Lamps** LED 4000 K | CRI ≥ 80

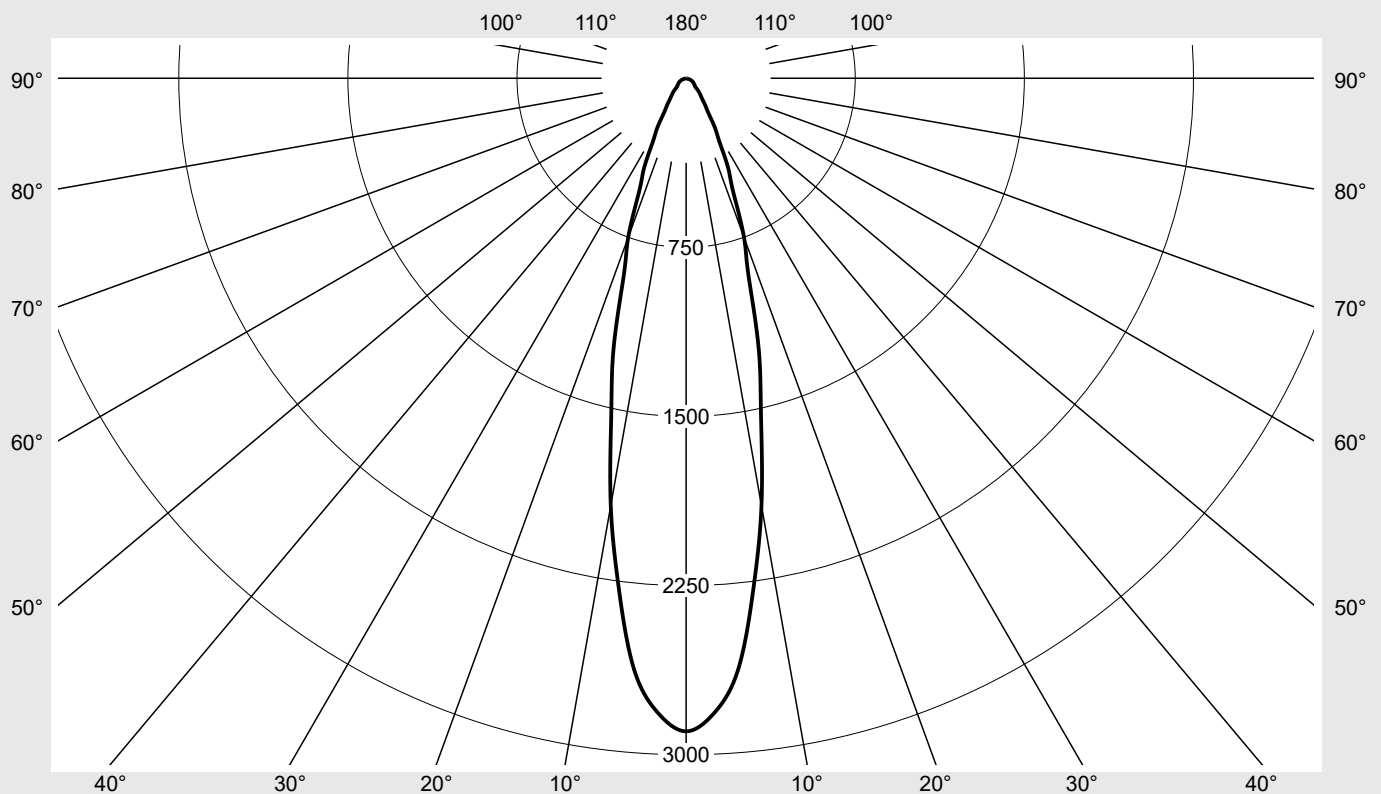
**Controlgear** ECG-DALI

**Rated values** Net luminous flux = 76000 lm  
Power consumption = 422.2 W  
Luminous efficacy = 180 lm/W

**Luminous intensity in cd/klm**

**C180-0**

**Imax: 2896 cd/klm**



### Classifications

DIN 5040 A 7 0  
CIE N1=88 N2=96 N3=99  
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

|                                                                                           |                                                                     |                                          |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------|
| <div>Family</div> <div>Highbay 11 Xtreme</div>                                            | <div>Order number: 51HF81DB4WMA</div> <div>EAN: 4058352919958</div> | <div>LP number</div> <div>59307_27</div> |
| <div>Table of values for luminous intensities</div> <div>Maximum luminous intensity</div> |                                                                     | <div>siteco</div>                        |

| C-planes | 0°                           | Phi-zone | Total<br>Phi-zone       |
|----------|------------------------------|----------|-------------------------|
| γ        | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 0,0°     | 2896.3                       | 4.3      | 4.3                     |
| 2,5°     | 2819.4                       | 33.7     | 38.0                    |
| 5,0°     | 2635.7                       | 63.0     | 101.0                   |
| 7,5°     | 2284.5                       | 81.7     | 182.8                   |
| 10,0°    | 1924.6                       | 91.6     | 274.4                   |
| 12,5°    | 1534.7                       | 91.1     | 365.4                   |
| 15,0°    | 1244.7                       | 88.3     | 453.7                   |
| 17,5°    | 921.9                        | 76.0     | 529.7                   |
| 20,0°    | 750.6                        | 70.4     | 600.1                   |
| 22,5°    | 545.9                        | 57.3     | 657.4                   |
| 25,0°    | 444.2                        | 51.5     | 708.8                   |
| 27,5°    | 324.2                        | 41.0     | 749.9                   |
| 30,0°    | 259.7                        | 35.6     | 785.5                   |
| 32,5°    | 186.5                        | 27.5     | 812.9                   |
| 35,0°    | 150.0                        | 23.6     | 836.5                   |
| 37,5°    | 119.7                        | 20.0     | 856.5                   |
| 40,0°    | 101.4                        | 17.9     | 874.3                   |
| 42,5°    | 86.4                         | 16.0     | 890.3                   |
| 45,0°    | 69.3                         | 13.4     | 903.8                   |
| 47,5°    | 53.2                         | 10.7     | 914.5                   |
| 50,0°    | 50.3                         | 10.6     | 925.1                   |
| 52,5°    | 46.2                         | 10.0     | 935.1                   |
| 55,0°    | 42.5                         | 9.5      | 944.7                   |
| 57,5°    | 39.0                         | 9.0      | 953.7                   |
| 60,0°    | 36.5                         | 8.7      | 962.4                   |
| 62,5°    | 32.1                         | 7.8      | 970.2                   |
| 65,0°    | 28.9                         | 7.2      | 977.4                   |
| 67,5°    | 23.8                         | 6.0      | 983.4                   |
| 70,0°    | 20.2                         | 5.2      | 988.6                   |
| 72,5°    | 15.0                         | 3.9      | 992.5                   |
| 75,0°    | 11.9                         | 3.1      | 995.6                   |
| 77,5°    | 7.9                          | 2.1      | 997.8                   |
| 80,0°    | 5.0                          | 1.4      | 999.1                   |
| 82,5°    | 2.2                          | 0.6      | 999.7                   |
| 85,0°    | 0.8                          | 0.2      | 999.9                   |
| 87,5°    | 0.3                          | 0.1      | 1000.0                  |
| 90,0°    | 0.0                          | 0.0      | 1000.0                  |

Photometric test report

|                              |     |                     |                                                  |      |      |      |                    |      |      |                       |      |
|------------------------------|-----|---------------------|--------------------------------------------------|------|------|------|--------------------|------|------|-----------------------|------|
| Family<br>Highbay 11 Xtreme  |     |                     | Order number: 51HF81DB4WMA<br>EAN: 4058352919958 |      |      |      |                    |      |      | LP number<br>59307_27 |      |
| 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  | 19.7                | 20.8                                             | 20.1 | 21.2 | 21.5 | 19.7               | 20.8 | 20.1 | 21.2                  | 21.5 |
|                              | 3H  | 20.8                | 21.8                                             | 21.2 | 22.1 | 22.5 | 20.8               | 21.8 | 21.2 | 22.1                  | 22.5 |
|                              | 4H  | 21.1                | 22.0                                             | 21.5 | 22.3 | 22.7 | 21.1               | 22.0 | 21.5 | 22.3                  | 22.7 |
|                              | 6H  | 21.2                | 22.0                                             | 21.6 | 22.4 | 22.8 | 21.2               | 22.0 | 21.6 | 22.4                  | 22.8 |
|                              | 8H  | 21.3                | 22.0                                             | 21.7 | 22.4 | 22.8 | 21.3               | 22.0 | 21.7 | 22.4                  | 22.8 |
|                              | 12H | 21.2                | 21.9                                             | 21.7 | 22.3 | 22.7 | 21.2               | 21.9 | 21.7 | 22.3                  | 22.7 |
| 4H                           | 2H  | 20.2                | 21.1                                             | 20.6 | 21.4 | 21.8 | 20.2               | 21.1 | 20.6 | 21.4                  | 21.8 |
|                              | 3H  | 21.4                | 22.1                                             | 21.8 | 22.5 | 22.9 | 21.4               | 22.1 | 21.8 | 22.5                  | 22.9 |
|                              | 4H  | 21.7                | 22.4                                             | 22.2 | 22.8 | 23.3 | 21.7               | 22.4 | 22.2 | 22.8                  | 23.3 |
|                              | 6H  | 21.9                | 22.5                                             | 22.4 | 22.9 | 23.4 | 21.9               | 22.5 | 22.4 | 22.9                  | 23.4 |
|                              | 8H  | 21.9                | 22.4                                             | 22.4 | 22.9 | 23.4 | 21.9               | 22.4 | 22.4 | 22.9                  | 23.4 |
|                              | 12H | 21.9                | 22.3                                             | 22.4 | 22.8 | 23.3 | 21.9               | 22.3 | 22.4 | 22.8                  | 23.3 |
| 8H                           | 4H  | 21.8                | 22.3                                             | 22.3 | 22.8 | 23.3 | 21.8               | 22.3 | 22.3 | 22.8                  | 23.3 |
|                              | 6H  | 22.1                | 22.5                                             | 22.6 | 22.9 | 23.4 | 22.1               | 22.5 | 22.6 | 22.9                  | 23.4 |
|                              | 8H  | 22.0                | 22.4                                             | 22.5 | 22.9 | 23.4 | 22.0               | 22.4 | 22.5 | 22.9                  | 23.4 |
|                              | 12H | 22.0                | 22.3                                             | 22.5 | 22.8 | 23.4 | 22.0               | 22.3 | 22.5 | 22.8                  | 23.4 |
| 12H                          | 4H  | 21.8                | 22.3                                             | 22.3 | 22.7 | 23.2 | 21.8               | 22.3 | 22.3 | 22.7                  | 23.2 |
|                              | 6H  | 22.0                | 22.4                                             | 22.5 | 22.9 | 23.4 | 22.0               | 22.4 | 22.5 | 22.9                  | 23.4 |
|                              | 8H  | 22.0                | 22.3                                             | 22.5 | 22.8 | 23.4 | 22.0               | 22.3 | 22.5 | 22.8                  | 23.4 |

|                 |                    |                                 |                               |                    |
|-----------------|--------------------|---------------------------------|-------------------------------|--------------------|
| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 545<br>B = 470 |
| C-planes        | 0°                 |                                 |                               |                    |
| $\gamma$        | Luminance in cd/m² |                                 |                               |                    |
| 45,0°           | 29092.5            |                                 |                               |                    |
| 50,0°           | 23206.7            |                                 |                               |                    |
| 55,0°           | 21992.3            |                                 |                               |                    |
| 60,0°           | 21669.3            |                                 |                               |                    |
| 65,0°           | 20319.6            |                                 |                               |                    |
| 70,0°           | 17487.0            |                                 |                               |                    |
| 75,0°           | 13624.6            |                                 |                               |                    |
| 80,0°           | 8584.2             |                                 |                               |                    |
| 85,0°           | 2594.0             |                                 |                               |                    |

Photometric test report

Family  
Highbay 11 Xtreme

Order number: 51HF81DB4WMA  
EAN: 4058352919958

LP number  
59307\_27

Luminance values in cd/m²

γ 65°

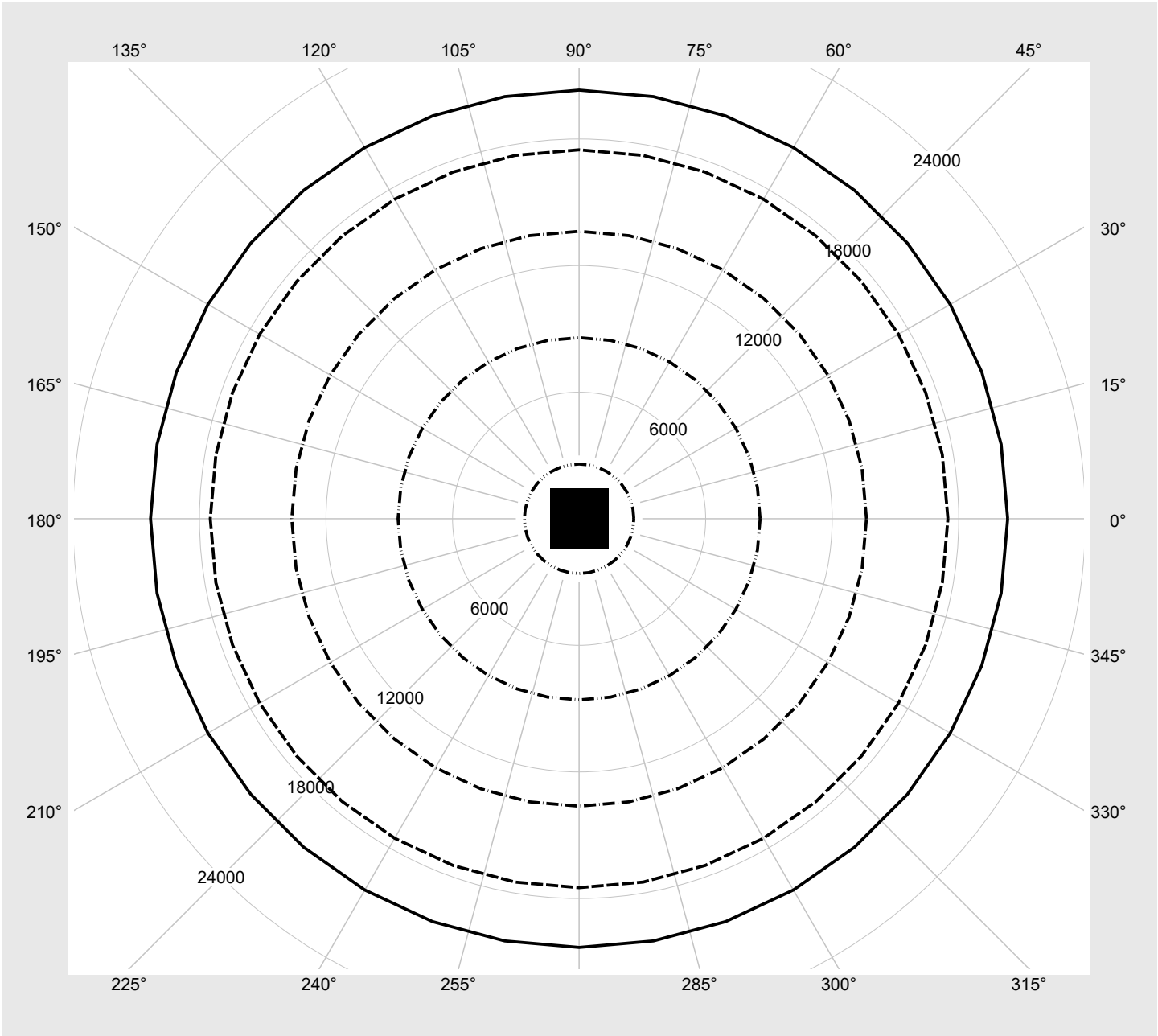
γ 70°

γ 75°

γ 80°

γ 85°

siteco



# Photometric test report

|                                                                        |                                                                |                                                                                     |
|------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Family</b><br><b>Highbay 11 Xtreme</b>                              | <b>Order number: 51HF81DB4WMA</b><br><b>EAN: 4058352919958</b> | <b>LP number</b><br><b>59307_27</b>                                                 |
| <b>Dimming levels table</b> <div>environmental temperature: 25°C</div> |                                                                |  |

| Luminous flux [%] | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-------------------|----------------------|---------------------------|--------------------|-----------------------|
| 100               | 254                  | 254                       | 76000              | 422.2                 |
| 95                | 240                  | 252                       | 72184              | 397.9                 |
| 90                | 226                  | 250                       | 68301              | 372.7                 |
| 85                | 213                  | 248                       | 64670              | 350.5                 |
| 80                | 199                  | 245                       | 60719              | 326.8                 |
| 75                | 186                  | 243                       | 57050              | 304.2                 |
| 70                | 173                  | 240                       | 53315              | 282.8                 |
| 65                | 159                  | 237                       | 49258              | 259.5                 |
| 60                | 146                  | 234                       | 45457              | 237.4                 |
| 55                | 134                  | 231                       | 41922              | 217.8                 |
| 50                | 121                  | 227                       | 38062              | 196.5                 |
| 45                | 108                  | 223                       | 34137              | 175.9                 |
| 40                | 96                   | 218                       | 30495              | 156.6                 |
| 35                | 84                   | 213                       | 26772              | 137.6                 |
| 30                | 71                   | 207                       | 22773              | 116.6                 |
| 25                | 59                   | 201                       | 19012              | 97.0                  |
| 20                | 47                   | 192                       | 15213              | 77.7                  |
| 15                | 35                   | 181                       | 11372              | 58.9                  |
| 10                | 23                   | 166                       | 7491               | 40.3                  |
| 5                 | 12                   | 142                       | 3895               | 23.2                  |
| 2                 | 4                    | 102                       | 1262               | 11.0                  |

|                             |                                 |
|-----------------------------|---------------------------------|
| <b>Dimming levels table</b> | environmental temperature: 45°C |
|-----------------------------|---------------------------------|

| Luminous flux [%] | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-------------------|----------------------|---------------------------|--------------------|-----------------------|
| 100               | 254                  | 254                       | 74320              | 418.5                 |
| 95                | 240                  | 252                       | 70599              | 394.3                 |
| 90                | 226                  | 250                       | 66814              | 369.4                 |
| 85                | 213                  | 248                       | 63269              | 347.3                 |
| 80                | 199                  | 245                       | 59412              | 323.9                 |
| 75                | 186                  | 243                       | 55831              | 301.5                 |
| 70                | 172                  | 240                       | 51903              | 278.8                 |
| 65                | 159                  | 237                       | 48217              | 257.1                 |
| 60                | 146                  | 234                       | 44501              | 235.2                 |
| 55                | 133                  | 230                       | 40756              | 214.2                 |
| 50                | 121                  | 227                       | 37270              | 194.7                 |
| 45                | 108                  | 223                       | 33432              | 174.3                 |
| 40                | 96                   | 218                       | 29868              | 155.2                 |
| 35                | 83                   | 213                       | 25873              | 135.3                 |
| 30                | 71                   | 207                       | 22310              | 115.5                 |
| 25                | 59                   | 201                       | 18627              | 96.1                  |
| 20                | 47                   | 192                       | 14906              | 77.0                  |
| 15                | 35                   | 181                       | 11145              | 58.3                  |
| 10                | 23                   | 166                       | 7342               | 39.9                  |
| 5                 | 12                   | 142                       | 3818               | 23.0                  |
| 2                 | 4                    | 102                       | 1237               | 10.9                  |

Photometric test report

|                             |                                                  |                       |
|-----------------------------|--------------------------------------------------|-----------------------|
| Family<br>Highbay 11 Xtreme | Order number: 51HF81DB4WMA<br>EAN: 4058352919958 | LP number<br>59307_27 |
| Luminousfluxs table         |                                                  | siteco                |

| Temperature<br>°C | Luminous flux<br>lm | Power consumption<br>W |
|-------------------|---------------------|------------------------|
| 25.0              | 76000.0             | 422.2                  |
| 45.0              | 74320.0             | 418.5                  |