

## Photometric test report

Family  
**MUSHROOM LUMINAIRE LED**

Order number: **5XA5233BB14H**  
EAN: **4058352436080**

LP number  
**57118\_11**



**Version** post-top- or mounting to wall arm  
**Optic** asymmetric, extremely wide distribution (P1.0a)  
**Cover** cover transparent, PMMA  
**Lamps** LED 2200 K | CRI ≥ 70  
**Controlgear** ECG Plus  
**Rated values** Net luminous flux = 1530 lm  
Power consumption = 15.0 W  
Luminous efficacy = 102 lm/W

serial documentation  
**03.09.2020**

siteco

Luminous intensity in cd/klm

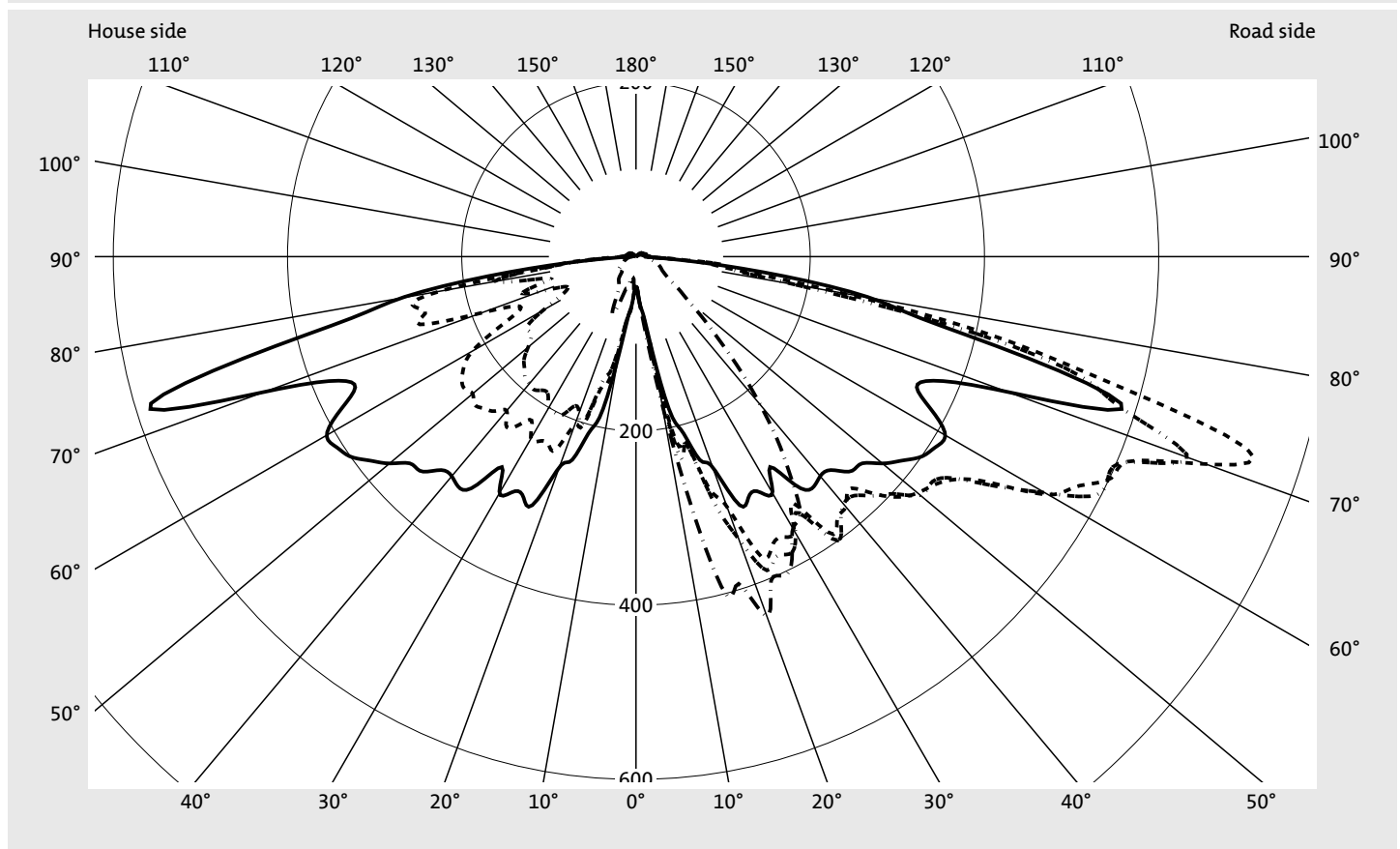
C180-0

C190-10

C195-15

C270-90

**Imax: 737 cd/klm**



**Luminaire output ratios**

|                |        |
|----------------|--------|
| Eta            | 100.0% |
| Eta 0° - 90°   | 96.3%  |
| Eta 90° - 180° | 3.7%   |

**Luminous intensity class acc. to EN13201-2**

|           |       |
|-----------|-------|
| Class:    | ---   |
| Imax 70°  | 696.3 |
| Imax 80°  | 376.1 |
| Imax 90°  | 21.8  |
| Imax >90° | 15.6  |
| Imax >95° | 12.7  |

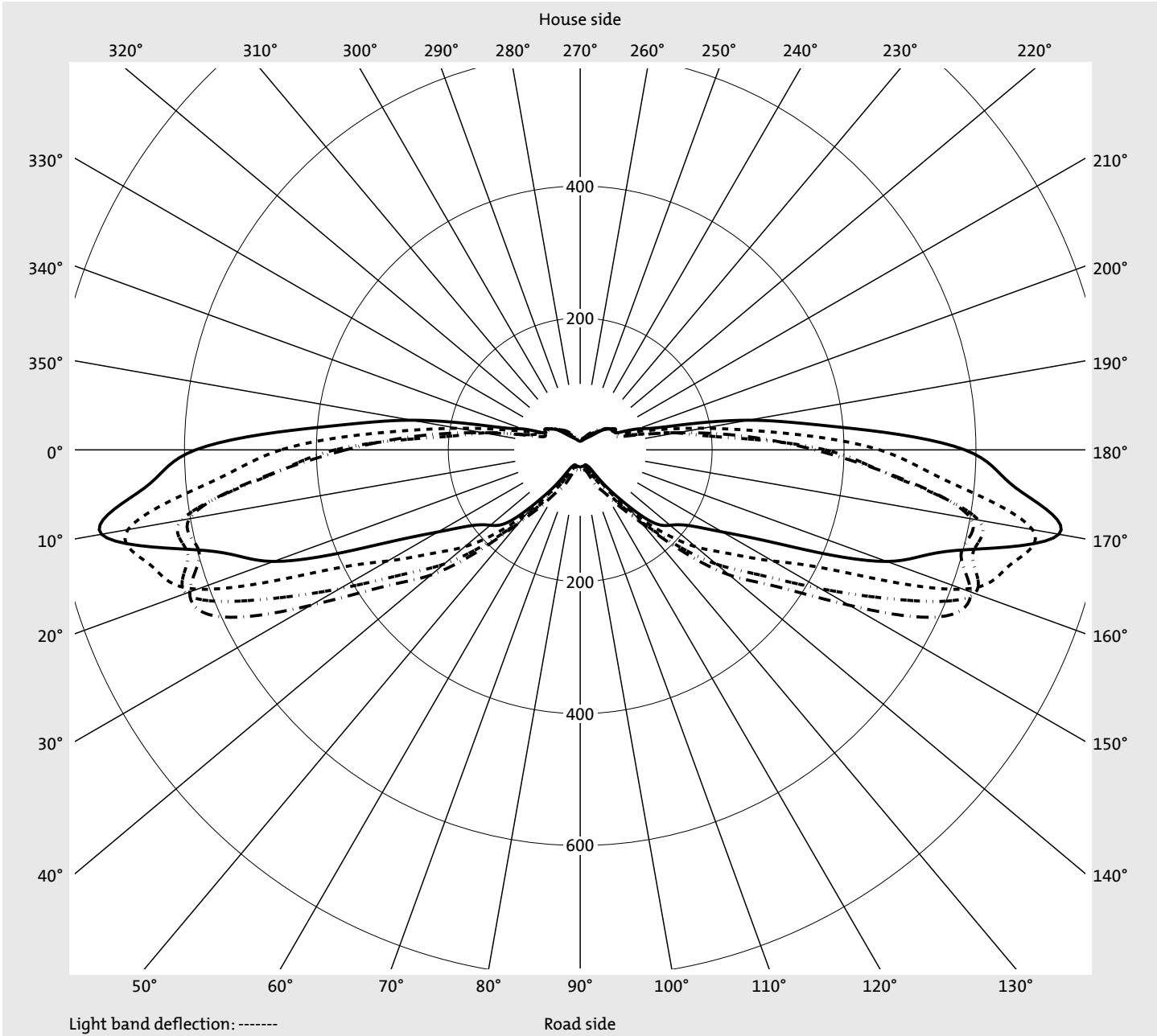
**Measurement conditions**

DIN EN 13032 and DIN 5032


**Photometric test report**

|  |  |                                     |
|--|--|-------------------------------------|
| <b>Family</b><br><b>MUSHROOM LUMINAIRE LED</b> | <b>Order number: 5XA5233BB14H</b><br><b>EAN: 4058352436080</b> | <b>LP number</b><br><b>57118_11</b> |
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**Envelope curve in cd/klm**      **KMK 72.5°**    **KMK 70°**    **KMK 67.5°**    **KMK 65°**      **siteco**



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|  |  |   |
|--|--|---|
| Family<br><b>MUSHROOM LUMINAIRE LED</b>  | Order number: <b>5XA5233BB14H</b><br>EAN: <b>4058352436080</b> | LP number<br><b>57118_11</b>  |
| Table of values for luminous intensities |  |  |
| Maximum luminous intensity               |  |   |

| C-planes | 0°<br>180°                   | 5°<br>175° | 10°<br>170° | 15°<br>165° | 20°<br>160° | 25°<br>155° | 30°<br>150° | 35°<br>145° | 40°<br>140° | 45°<br>135° | 50°<br>130° | 55°<br>125° | 60°<br>120° |
|----------|------------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| γ        | Luminous intensity in cd/klm |            |             |             |             |             |             |             |             |             |             |             |             |
| 0,0°     | 34.9                         | 34.9       | 34.9        | 34.9        | 34.9        | 34.9        | 34.9        | 34.9        | 34.9        | 34.9        | 34.9        | 34.9        | 34.9        |
| 2,5°     | 38.0                         | 38.4       | 38.4        | 38.7        | 39.0        | 39.7        | 40.0        | 40.0        | 40.6        | 41.3        | 41.6        | 41.6        | 41.9        |
| 5,0°     | 56.2                         | 56.9       | 57.9        | 58.8        | 59.8        | 61.1        | 62.4        | 64.4        | 65.3        | 67.3        | 67.3        | 66.3        | 65.3        |
| 7,5°     | 70.2                         | 72.5       | 74.8        | 79.0        | 84.8        | 93.0        | 93.3        | 90.7        | 91.3        | 89.1        | 89.1        | 90.7        | 93.3        |
| 10,0°    | 116.7                        | 131.0      | 138.8       | 142.4       | 142.1       | 148.2       | 154.1       | 159.0       | 166.1       | 168.1       | 169.7       | 161.9       | 158.0       |
| 12,5°    | 185.0                        | 192.8      | 221.1       | 236.3       | 232.4       | 220.7       | 229.5       | 233.7       | 229.5       | 241.2       | 262.7       | 271.8       | 283.5       |
| 15,0°    | 209.4                        | 215.5      | 219.4       | 222.0       | 240.2       | 250.0       | 296.5       | 296.5       | 301.7       | 298.8       | 323.8       | 331.6       | 342.3       |
| 17,5°    | 245.1                        | 269.8      | 278.6       | 292.2       | 307.2       | 328.7       | 348.2       | 380.7       | 368.6       | 388.8       | 407.3       | 423.9       | 428.1       |
| 20,0°    | 257.1                        | 284.1      | 305.3       | 345.2       | 368.3       | 394.0       | 413.2       | 429.4       | 438.9       | 426.5       | 423.9       | 418.1       | 432.4       |
| 22,5°    | 307.5                        | 347.8      | 370.6       | 389.4       | 389.1       | 390.4       | 398.9       | 415.8       | 422.6       | 443.1       | 434.3       | 432.4       | 432.0       |
| 25,0°    | 305.3                        | 335.5      | 368.3       | 380.0       | 386.5       | 387.5       | 393.7       | 392.7       | 402.5       | 407.7       | 412.2       | 402.1       | 408.3       |
| 27,5°    | 304.0                        | 337.4      | 362.8       | 384.2       | 392.1       | 394.3       | 399.5       | 391.7       | 394.7       | 407.3       | 411.2       | 402.8       | 397.9       |
| 30,0°    | 313.4                        | 343.9      | 362.8       | 366.0       | 384.2       | 387.8       | 393.4       | 382.0       | 388.5       | 380.7       | 380.0       | 377.7       | 374.8       |
| 32,5°    | 286.4                        | 319.6      | 335.2       | 348.8       | 354.7       | 354.0       | 367.3       | 371.2       | 379.4       | 376.8       | 371.2       | 355.3       | 336.5       |
| 35,0°    | 321.2                        | 349.1      | 387.5       | 396.6       | 402.5       | 388.8       | 386.8       | 383.9       | 380.0       | 361.5       | 340.7       | 322.5       | 302.0       |
| 37,5°    | 333.9                        | 350.8      | 379.4       | 386.5       | 389.4       | 382.9       | 385.2       | 380.0       | 369.6       | 345.6       | 326.7       | 286.4       | 267.5       |
| 40,0°    | 329.0                        | 347.8      | 374.8       | 370.9       | 382.6       | 380.3       | 375.8       | 372.2       | 352.1       | 327.0       | 292.2       | 259.1       | 236.7       |
| 42,5°    | 332.2                        | 353.0      | 361.8       | 371.9       | 382.6       | 383.6       | 369.3       | 363.8       | 339.1       | 301.4       | 266.2       | 228.9       | 210.0       |
| 45,0°    | 348.5                        | 362.1      | 384.2       | 388.1       | 399.9       | 387.2       | 366.0       | 355.0       | 321.8       | 286.4       | 243.2       | 200.6       | 181.4       |
| 47,5°    | 351.4                        | 381.6      | 408.3       | 403.1       | 409.0       | 388.1       | 360.5       | 347.2       | 308.5       | 262.3       | 218.1       | 182.0       | 163.2       |
| 50,0°    | 369.3                        | 396.0      | 422.0       | 425.9       | 422.0       | 406.7       | 378.1       | 348.2       | 303.6       | 239.3       | 190.2       | 164.5       | 150.2       |
| 52,5°    | 384.6                        | 406.0      | 430.7       | 426.8       | 433.0       | 426.2       | 391.7       | 351.7       | 291.3       | 224.6       | 174.2       | 148.9       | 135.2       |
| 55,0°    | 400.2                        | 433.3      | 446.0       | 443.1       | 435.0       | 425.9       | 399.5       | 345.9       | 286.1       | 211.6       | 162.2       | 137.5       | 120.6       |
| 57,5°    | 407.3                        | 456.4      | 483.1       | 490.5       | 452.8       | 428.8       | 406.7       | 348.5       | 289.0       | 212.9       | 155.4       | 125.2       | 103.7       |
| 60,0°    | 409.9                        | 488.9      | 546.5       | 542.2       | 498.0       | 469.1       | 422.3       | 355.0       | 289.0       | 217.8       | 154.7       | 118.7       | 91.3        |
| 62,5°    | 383.3                        | 509.1      | 570.8       | 593.6       | 572.1       | 546.5       | 470.1       | 365.1       | 294.9       | 223.3       | 147.9       | 113.5       | 85.2        |
| 65,0°    | 355.6                        | 486.3      | 601.7       | 598.2       | 630.0       | 599.5       | 471.4       | 360.2       | 295.2       | 214.9       | 144.7       | 105.3       | 76.4        |
| 67,5°    | 372.2                        | 480.8      | 613.4       | 615.7       | 636.5       | 538.0       | 421.0       | 330.0       | 269.5       | 200.9       | 139.5       | 93.6        | 61.1        |
| 70,0°    | 453.8                        | 562.4      | 696.3       | 674.5       | 618.0       | 436.9       | 337.1       | 273.7       | 228.5       | 176.8       | 124.8       | 77.0        | 40.3        |
| 72,5°    | 583.2                        | 663.2      | 737.0       | 589.4       | 494.8       | 341.3       | 249.0       | 199.9       | 177.8       | 155.4       | 105.7       | 66.0        | 36.7        |
| 75,0°    | 496.4                        | 552.3      | 570.5       | 526.6       | 397.6       | 234.4       | 162.2       | 134.6       | 129.7       | 110.5       | 77.4        | 45.8        | 31.5        |
| 77,5°    | 346.2                        | 464.2      | 421.3       | 381.6       | 248.4       | 164.5       | 125.8       | 104.0       | 88.7        | 66.3        | 41.0        | 27.6        | 21.8        |
| 80,0°    | 273.7                        | 376.1      | 239.6       | 187.6       | 146.9       | 114.4       | 87.8        | 76.4        | 52.0        | 38.4        | 28.0        | 21.8        | 18.9        |
| 82,5°    | 170.0                        | 124.5      | 113.5       | 109.9       | 110.2       | 87.4        | 71.8        | 50.4        | 32.2        | 23.7        | 20.8        | 17.9        | 17.6        |
| 85,0°    | 71.5                         | 60.5       | 76.4        | 94.3        | 88.4        | 57.9        | 45.2        | 33.8        | 24.1        | 19.2        | 16.9        | 16.9        | 16.6        |
| 87,5°    | 17.6                         | 17.2       | 17.9        | 17.6        | 17.2        | 16.9        | 16.3        | 16.3        | 16.3        | 16.3        | 16.3        | 15.9        | 15.6        |
| 90,0°    | 14.6                         | 14.6       | 15.3        | 15.3        | 15.6        | 15.6        | 15.6        | 15.9        | 15.6        | 16.3        | 16.3        | 15.9        | 15.3        |
| 92,5°    | 12.7                         | 13.0       | 13.7        | 14.0        | 14.3        | 14.3        | 14.3        | 15.3        | 15.3        | 15.6        | 15.6        | 15.3        | 15.3        |
| 95,0°    | 12.4                         | 12.4       | 12.4        | 13.0        | 13.3        | 13.3        | 13.3        | 14.0        | 14.0        | 14.0        | 13.3        | 13.3        | 13.0        |
| 97,5°    | 11.4                         | 11.7       | 12.0        | 12.4        | 12.4        | 12.7        | 12.7        | 12.7        | 12.7        | 12.7        | 12.7        | 12.7        | 12.7        |
| 100,0°   | 11.1                         | 11.4       | 11.7        | 11.7        | 11.7        | 12.4        | 12.4        | 12.4        | 12.4        | 12.4        | 12.4        | 12.4        | 12.4        |
| 102,5°   | 10.4                         | 10.7       | 11.1        | 11.4        | 11.7        | 11.7        | 11.7        | 11.7        | 11.7        | 11.7        | 11.7        | 11.7        | 11.7        |
| 105,0°   | 10.1                         | 10.4       | 10.7        | 11.1        | 11.1        | 11.1        | 11.1        | 11.1        | 11.1        | 11.7        | 11.1        | 11.7        | 11.7        |
| 107,5°   | 9.4                          | 10.1       | 10.4        | 10.4        | 10.4        | 10.4        | 11.1        | 11.1        | 11.1        | 11.1        | 11.1        | 11.1        | 11.1        |
| 110,0°   | 9.4                          | 9.4        | 10.1        | 10.1        | 10.4        | 10.4        | 10.4        | 10.4        | 10.4        | 10.7        | 10.7        | 10.7        | 11.1        |
| 112,5°   | 9.1                          | 9.4        | 9.4         | 9.8         | 10.1        | 10.1        | 10.1        | 10.4        | 10.4        | 10.4        | 10.4        | 10.4        | 10.4        |

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| <b>Table of values for luminous intensities</b> |  | <b>Maximum luminous intensity</b>   |

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| C-planes | 65°<br>115°                  | 70°<br>110° | 75°<br>105° | 80°<br>100° | 85°<br>95° | 90°   | 185°<br>355° | 190°<br>350° | 195°<br>345° | 200°<br>340° | 205°<br>335° | 210°<br>330° | 215°<br>325° |
|----------|------------------------------|-------------|-------------|-------------|------------|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| $\gamma$ | Luminous intensity in cd/klm |             |             |             |            |       |              |              |              |              |              |              |              |
| 0,0°     | 34.9                         | 34.9        | 34.9        | 34.9        | 34.9       | 34.9  | 34.9         | 34.9         | 34.9         | 34.9         | 34.9         | 34.9         | 34.9         |
| 2,5°     | 42.9                         | 43.2        | 43.6        | 42.9        | 43.2       | 43.6  | 38.0         | 37.7         | 37.7         | 37.1         | 36.7         | 36.7         | 36.7         |
| 5,0°     | 61.1                         | 57.9        | 57.5        | 59.5        | 59.5       | 58.5  | 56.2         | 58.2         | 58.5         | 57.2         | 53.3         | 48.4         | 45.2         |
| 7,5°     | 89.4                         | 88.4        | 89.1        | 87.8        | 93.0       | 93.6  | 70.5         | 69.2         | 68.6         | 69.6         | 68.9         | 64.0         | 62.1         |
| 10,0°    | 159.0                        | 156.0       | 158.6       | 165.8       | 170.0      | 171.0 | 104.0        | 98.5         | 93.6         | 88.4         | 71.8         | 68.9         | 68.6         |
| 12,5°    | 268.2                        | 281.2       | 289.0       | 291.9       | 290.3      | 293.9 | 165.8        | 147.6        | 135.2        | 114.4        | 106.0        | 96.9         | 89.7         |
| 15,0°    | 369.6                        | 371.9       | 385.2       | 394.3       | 396.0      | 402.5 | 196.4        | 157.3        | 148.6        | 135.9        | 129.4        | 123.5        | 117.7        |
| 17,5°    | 444.4                        | 444.7       | 426.5       | 410.6       | 392.4      | 394.0 | 226.9        | 203.5        | 199.3        | 184.6        | 169.4        | 149.9        | 137.5        |
| 20,0°    | 434.0                        | 438.5       | 441.5       | 436.6       | 436.9      | 438.9 | 225.6        | 205.1        | 191.1        | 171.6        | 154.4        | 141.4        | 119.3        |
| 22,5°    | 424.6                        | 417.7       | 409.9       | 403.8       | 400.5      | 404.4 | 275.3        | 239.3        | 185.9        | 177.2        | 142.7        | 134.9        | 117.0        |
| 25,0°    | 406.0                        | 393.7       | 397.6       | 399.9       | 401.8      | 403.8 | 282.2        | 237.6        | 200.6        | 169.7        | 148.6        | 124.8        | 107.3        |
| 27,5°    | 383.6                        | 371.9       | 379.7       | 382.9       | 387.8      | 388.1 | 268.8        | 238.6        | 201.9        | 164.5        | 145.0        | 127.8        | 112.5        |
| 30,0°    | 357.9                        | 352.1       | 355.6       | 356.9       | 357.3      | 360.2 | 296.2        | 241.2        | 200.3        | 172.9        | 139.1        | 120.3        | 96.2         |
| 32,5°    | 323.5                        | 322.2       | 332.6       | 339.1       | 346.2      | 351.1 | 265.9        | 223.0        | 187.9        | 169.4        | 152.8        | 109.6        | 79.0         |
| 35,0°    | 289.3                        | 294.9       | 299.1       | 303.6       | 307.2      | 310.8 | 289.0        | 236.7        | 187.2        | 160.3        | 132.0        | 93.3         | 64.4         |
| 37,5°    | 258.1                        | 265.6       | 265.6       | 267.5       | 268.2      | 268.5 | 295.8        | 244.8        | 192.4        | 165.1        | 122.6        | 83.9         | 59.2         |
| 40,0°    | 228.5                        | 233.4       | 227.9       | 224.3       | 222.7      | 221.7 | 294.2        | 230.8        | 190.2        | 163.5        | 105.0        | 68.6         | 57.9         |
| 42,5°    | 204.8                        | 202.5       | 193.7       | 186.3       | 180.1      | 177.5 | 298.8        | 240.6        | 188.2        | 138.5        | 93.9         | 59.8         | 57.9         |
| 45,0°    | 176.8                        | 171.3       | 159.3       | 146.9       | 138.5      | 134.6 | 303.3        | 246.4        | 181.1        | 120.9        | 71.5         | 58.2         | 58.2         |
| 47,5°    | 152.8                        | 142.1       | 128.7       | 116.4       | 106.0      | 103.4 | 305.3        | 251.3        | 174.2        | 117.0        | 60.5         | 57.9         | 58.8         |
| 50,0°    | 133.0                        | 121.9       | 105.7       | 92.0        | 81.3       | 77.4  | 313.4        | 244.8        | 161.6        | 101.4        | 58.2         | 57.9         | 57.9         |
| 52,5°    | 115.7                        | 101.1       | 86.1        | 74.8        | 64.7       | 63.1  | 322.5        | 248.4        | 151.5        | 90.7         | 58.2         | 56.2         | 55.6         |
| 55,0°    | 98.2                         | 84.5        | 70.2        | 60.5        | 52.0       | 49.4  | 329.6        | 243.8        | 149.5        | 70.5         | 59.2         | 55.3         | 53.3         |
| 57,5°    | 83.9                         | 72.2        | 55.6        | 48.4        | 43.6       | 41.6  | 336.1        | 234.1        | 147.6        | 67.3         | 59.2         | 55.6         | 52.7         |
| 60,0°    | 71.2                         | 55.9        | 46.5        | 40.6        | 37.7       | 37.1  | 332.6        | 216.8        | 122.9        | 65.0         | 57.9         | 54.6         | 54.6         |
| 62,5°    | 67.9                         | 50.4        | 38.0        | 34.8        | 34.1       | 33.8  | 287.0        | 180.4        | 97.2         | 58.8         | 57.5         | 56.6         | 55.6         |
| 65,0°    | 61.8                         | 42.9        | 32.8        | 31.2        | 31.5       | 31.9  | 244.8        | 149.2        | 86.5         | 58.5         | 58.5         | 56.9         | 55.3         |
| 67,5°    | 41.0                         | 31.9        | 29.9        | 28.6        | 29.3       | 29.9  | 219.4        | 148.2        | 90.7         | 69.9         | 58.5         | 56.6         | 54.9         |
| 70,0°    | 33.8                         | 28.9        | 27.3        | 26.7        | 27.3       | 28.0  | 301.0        | 188.9        | 116.7        | 79.6         | 61.4         | 58.8         | 55.6         |
| 72,5°    | 27.0                         | 24.1        | 24.4        | 25.0        | 25.4       | 26.0  | 395.3        | 259.1        | 135.9        | 93.0         | 61.1         | 62.1         | 55.3         |
| 75,0°    | 22.1                         | 22.1        | 22.4        | 22.8        | 22.8       | 22.8  | 420.7        | 250.3        | 103.7        | 78.7         | 57.2         | 57.2         | 57.9         |
| 77,5°    | 20.2                         | 20.5        | 20.5        | 20.2        | 19.5       | 19.5  | 407.0        | 261.7        | 121.6        | 65.3         | 56.9         | 58.8         | 58.5         |
| 80,0°    | 18.5                         | 18.9        | 18.5        | 17.9        | 17.2       | 16.9  | 283.8        | 229.2        | 164.2        | 83.5         | 56.9         | 62.1         | 61.1         |
| 82,5°    | 17.6                         | 17.2        | 16.9        | 16.3        | 15.9       | 16.3  | 188.2        | 115.7        | 120.6        | 88.4         | 59.5         | 58.5         | 56.9         |
| 85,0°    | 16.3                         | 15.6        | 15.3        | 15.3        | 15.0       | 15.0  | 84.5         | 79.0         | 67.9         | 70.5         | 50.7         | 56.6         | 52.0         |
| 87,5°    | 14.6                         | 14.6        | 14.0        | 14.3        | 14.0       | 14.3  | 22.1         | 28.3         | 32.2         | 38.4         | 39.3         | 37.7         | 32.5         |
| 90,0°    | 14.6                         | 14.3        | 14.0        | 14.0        | 13.7       | 13.7  | 14.3         | 17.9         | 20.2         | 19.8         | 21.8         | 20.5         | 16.9         |
| 92,5°    | 14.6                         | 14.0        | 13.3        | 13.3        | 13.3       | 13.7  | 12.4         | 12.0         | 11.4         | 10.7         | 10.1         | 9.8          | 9.1          |
| 95,0°    | 13.0                         | 13.0        | 13.0        | 13.0        | 13.0       | 13.0  | 11.4         | 11.1         | 10.4         | 10.1         | 9.4          | 8.8          | 8.1          |
| 97,5°    | 12.4                         | 12.7        | 12.4        | 12.4        | 12.4       | 12.4  | 11.1         | 10.7         | 10.1         | 9.4          | 8.8          | 8.5          | 8.1          |
| 100,0°   | 12.4                         | 12.4        | 12.4        | 12.4        | 12.4       | 12.4  | 10.7         | 10.1         | 9.4          | 9.4          | 8.8          | 8.1          | 7.5          |
| 102,5°   | 11.7                         | 11.7        | 11.7        | 11.7        | 11.7       | 11.7  | 10.1         | 9.8          | 9.4          | 8.8          | 8.5          | 7.8          | 7.5          |
| 105,0°   | 11.7                         | 11.7        | 11.7        | 11.7        | 11.7       | 11.7  | 10.1         | 9.4          | 8.8          | 8.8          | 8.1          | 7.5          | 7.5          |
| 107,5°   | 11.1                         | 11.1        | 11.1        | 11.1        | 11.1       | 10.4  | 9.4          | 8.8          | 8.8          | 8.1          | 7.8          | 7.5          | 6.8          |
| 110,0°   | 11.1                         | 11.1        | 11.1        | 11.1        | 11.1       | 9.8   | 8.8          | 8.8          | 8.1          | 7.8          | 7.5          | 7.2          | 6.8          |
| 112,5°   | 10.7                         | 10.4        | 10.7        | 10.7        | 10.4       | 8.5   | 8.8          | 8.1          | 8.1          | 7.8          | 7.2          | 6.8          | 6.5          |

## Photometric test report

|   |  |                                   |
|---|--|-----------------------------------|
| Family<br><b>MUSHROOM LUMINAIRE LED</b>         | Order number: <b>5XA5233BB14H</b><br>EAN: <b>4058352436080</b> | LP number<br><b>57118_11</b>      |
| <b>Table of values for luminous intensities</b> |  | <b>Maximum luminous intensity</b> |
|   |  | <b>siteco</b>                     |

| C-planes | 220°<br>320°                 | 225°<br>315° | 230°<br>310° | 235°<br>305° | 240°<br>300° | 245°<br>295° | 250°<br>290° | 255°<br>285° | 260°<br>280° | 265°<br>275° | 270° | Phi-zone                | Total<br>Phi-zone |
|----------|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|-------------------------|-------------------|
| γ        | Luminous intensity in cd/klm |              |              |              |              |              |              |              |              |              |      | Luminous flux in lm/klm |                   |
| 0,0°     | 34.9                         | 34.9         | 34.9         | 34.9         | 34.9         | 34.9         | 34.9         | 34.9         | 34.9         | 34.9         | 34.9 | 0.1                     | 0.1               |
| 2,5°     | 37.1                         | 37.7         | 38.4         | 39.0         | 40.0         | 41.0         | 42.6         | 44.2         | 45.8         | 46.8         | 44.9 | 0.5                     | 0.5               |
| 5,0°     | 42.9                         | 42.3         | 41.9         | 41.0         | 36.7         | 32.8         | 31.2         | 30.2         | 29.3         | 28.6         | 28.6 | 1.2                     | 1.8               |
| 7,5°     | 52.3                         | 49.1         | 46.5         | 43.9         | 39.0         | 35.1         | 32.5         | 30.2         | 27.6         | 26.7         | 26.7 | 2.5                     | 4.2               |
| 10,0°    | 67.6                         | 65.0         | 56.6         | 42.9         | 38.0         | 32.5         | 31.2         | 27.6         | 26.7         | 28.0         | 28.0 | 5.1                     | 9.4               |
| 12,5°    | 81.6                         | 72.5         | 69.2         | 68.6         | 47.8         | 41.3         | 37.4         | 34.5         | 28.3         | 26.3         | 25.4 | 9.9                     | 19.2              |
| 15,0°    | 113.1                        | 110.5        | 107.9        | 72.8         | 58.5         | 51.4         | 44.5         | 44.9         | 45.8         | 40.3         | 37.1 | 14.6                    | 33.8              |
| 17,5°    | 117.7                        | 102.7        | 101.8        | 94.3         | 85.2         | 70.9         | 60.5         | 55.9         | 52.3         | 41.3         | 39.7 | 20.3                    | 54.1              |
| 20,0°    | 111.8                        | 105.7        | 105.0        | 92.3         | 80.0         | 73.1         | 70.5         | 67.0         | 64.7         | 56.9         | 59.8 | 24.5                    | 78.6              |
| 22,5°    | 106.6                        | 104.4        | 95.9         | 80.6         | 74.1         | 66.6         | 63.4         | 67.0         | 68.6         | 65.7         | 70.9 | 27.8                    | 106.3             |
| 25,0°    | 96.2                         | 84.5         | 69.9         | 60.1         | 58.5         | 60.5         | 55.6         | 56.2         | 57.2         | 53.0         | 57.2 | 29.4                    | 135.7             |
| 27,5°    | 82.9                         | 66.3         | 54.3         | 50.4         | 50.1         | 51.0         | 50.7         | 45.2         | 42.3         | 42.6         | 43.6 | 31.3                    | 167.0             |
| 30,0°    | 69.2                         | 55.3         | 50.7         | 49.1         | 48.4         | 48.1         | 45.5         | 41.0         | 38.0         | 40.0         | 39.0 | 32.6                    | 199.6             |
| 32,5°    | 55.9                         | 52.0         | 51.4         | 50.7         | 48.8         | 48.1         | 43.9         | 41.3         | 33.2         | 37.1         | 36.4 | 33.0                    | 232.6             |
| 35,0°    | 52.3                         | 50.1         | 48.4         | 48.8         | 49.1         | 46.8         | 42.9         | 39.7         | 30.9         | 34.8         | 34.5 | 34.9                    | 267.6             |
| 37,5°    | 57.5                         | 56.9         | 51.0         | 48.1         | 45.8         | 44.2         | 41.0         | 38.0         | 33.5         | 32.5         | 32.5 | 35.6                    | 303.1             |
| 40,0°    | 57.5                         | 56.2         | 54.9         | 54.0         | 47.5         | 42.9         | 37.7         | 33.8         | 30.9         | 28.6         | 28.6 | 35.3                    | 338.4             |
| 42,5°    | 57.9                         | 55.9         | 53.6         | 50.7         | 45.5         | 42.9         | 37.4         | 30.6         | 28.9         | 27.0         | 24.1 | 35.2                    | 373.6             |
| 45,0°    | 57.9                         | 56.6         | 54.3         | 50.1         | 44.5         | 39.0         | 33.5         | 28.6         | 27.0         | 25.0         | 22.8 | 35.3                    | 408.9             |
| 47,5°    | 58.2                         | 56.2         | 54.6         | 51.0         | 44.2         | 38.0         | 32.5         | 27.0         | 25.0         | 23.1         | 20.2 | 35.5                    | 444.4             |
| 50,0°    | 57.9                         | 55.6         | 55.6         | 51.4         | 45.2         | 38.0         | 31.5         | 26.7         | 24.7         | 22.1         | 22.1 | 36.2                    | 480.6             |
| 52,5°    | 55.9                         | 54.6         | 54.9         | 51.0         | 44.9         | 37.4         | 31.2         | 27.3         | 25.4         | 23.4         | 24.1 | 36.9                    | 517.5             |
| 55,0°    | 53.6                         | 53.6         | 53.3         | 48.8         | 42.6         | 36.4         | 29.9         | 25.7         | 24.1         | 22.8         | 23.4 | 37.4                    | 554.9             |
| 57,5°    | 51.7                         | 50.7         | 50.4         | 46.2         | 39.7         | 33.5         | 27.6         | 24.1         | 21.8         | 20.5         | 21.5 | 38.6                    | 593.5             |
| 60,0°    | 50.4                         | 48.1         | 46.5         | 42.3         | 35.8         | 29.9         | 24.7         | 22.1         | 20.2         | 18.5         | 19.5 | 40.4                    | 633.9             |
| 62,5°    | 50.1                         | 45.2         | 42.3         | 38.4         | 32.2         | 27.3         | 22.4         | 20.2         | 18.5         | 17.9         | 17.6 | 42.1                    | 676.0             |
| 65,0°    | 50.1                         | 43.2         | 39.0         | 34.1         | 28.9         | 24.7         | 20.8         | 18.9         | 17.2         | 16.6         | 16.3 | 42.6                    | 718.6             |
| 67,5°    | 49.4                         | 40.6         | 34.8         | 30.2         | 26.3         | 22.4         | 19.5         | 17.6         | 15.9         | 15.3         | 15.0 | 41.7                    | 760.3             |
| 70,0°    | 48.8                         | 39.3         | 32.2         | 27.0         | 23.4         | 20.5         | 18.2         | 16.3         | 15.0         | 14.6         | 14.3 | 42.8                    | 803.1             |
| 72,5°    | 48.1                         | 37.7         | 29.3         | 24.4         | 21.1         | 18.9         | 16.9         | 15.3         | 14.0         | 13.3         | 13.0 | 42.5                    | 845.5             |
| 75,0°    | 50.4                         | 37.4         | 27.0         | 22.8         | 19.8         | 17.2         | 15.3         | 14.0         | 12.7         | 12.0         | 11.7 | 35.7                    | 881.2             |
| 77,5°    | 52.3                         | 37.4         | 25.7         | 21.1         | 18.2         | 15.9         | 14.3         | 12.7         | 11.7         | 10.7         | 11.1 | 28.8                    | 910.0             |
| 80,0°    | 51.0                         | 36.4         | 23.7         | 18.9         | 16.6         | 14.3         | 12.7         | 11.4         | 10.4         | 10.1         | 9.8  | 21.8                    | 931.8             |
| 82,5°    | 47.8                         | 33.5         | 21.5         | 16.3         | 14.6         | 13.3         | 11.7         | 10.4         | 9.4          | 8.8          | 8.5  | 14.5                    | 946.3             |
| 85,0°    | 35.4                         | 26.3         | 17.6         | 13.7         | 12.7         | 11.7         | 10.1         | 8.8          | 8.1          | 7.8          | 7.2  | 10.0                    | 956.4             |
| 87,5°    | 23.1                         | 14.0         | 10.1         | 8.8          | 7.8          | 7.2          | 6.5          | 5.5          | 5.9          | 5.5          | 5.2  | 4.7                     | 961.1             |
| 90,0°    | 12.4                         | 10.4         | 8.8          | 7.2          | 6.5          | 5.9          | 5.5          | 4.9          | 4.9          | 4.6          | 4.6  | 3.7                     | 964.8             |
| 92,5°    | 8.5                          | 7.8          | 7.2          | 6.5          | 5.9          | 5.5          | 4.9          | 4.6          | 4.6          | 4.6          | 4.6  | 3.1                     | 967.8             |
| 95,0°    | 7.8                          | 7.2          | 6.8          | 6.2          | 5.5          | 5.5          | 4.9          | 4.6          | 4.2          | 4.2          | 4.6  | 2.8                     | 970.7             |
| 97,5°    | 7.5                          | 7.2          | 6.5          | 6.2          | 5.5          | 5.5          | 4.9          | 4.6          | 4.2          | 4.2          | 4.6  | 2.7                     | 973.3             |
| 100,0°   | 7.5                          | 6.8          | 6.5          | 6.2          | 5.5          | 5.2          | 4.9          | 4.2          | 4.2          | 4.2          | 4.6  | 2.6                     | 975.9             |
| 102,5°   | 7.2                          | 6.5          | 6.2          | 5.9          | 5.5          | 4.9          | 4.6          | 4.2          | 4.2          | 3.9          | 4.6  | 2.5                     | 978.4             |
| 105,0°   | 6.8                          | 6.5          | 6.2          | 5.5          | 5.2          | 4.9          | 4.2          | 4.2          | 4.2          | 3.9          | 3.9  | 2.4                     | 980.8             |
| 107,5°   | 6.5                          | 6.2          | 5.9          | 5.5          | 4.9          | 4.9          | 4.2          | 4.2          | 4.2          | 3.9          | 3.9  | 2.2                     | 983.0             |
| 110,0°   | 6.2                          | 6.2          | 5.5          | 5.2          | 4.9          | 4.6          | 4.2          | 4.2          | 3.9          | 3.9          | 3.3  | 2.1                     | 985.1             |
| 112,5°   | 6.2                          | 5.9          | 5.5          | 4.9          | 4.9          | 4.2          | 4.2          | 4.2          | 3.6          | 3.6          | 2.6  | 2.0                     | 987.2             |

## Photometric test report

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| <b>Family</b><br><b>MUSHROOM LUMINAIRE LED</b>  | <b>Order number: 5XA5233BB14H</b><br><b>EAN: 4058352436080</b> | <b>LP number</b><br><b>57118_11</b>   |
| <b>Table of values for luminous intensities</b> |  | <b>Maximum luminous intensity</b>   |
|   |  |  |

| C-planes | 0°<br>180°                   | 5°<br>175° | 10°<br>170° | 15°<br>165° | 20°<br>160° | 25°<br>155° | 30°<br>150° | 35°<br>145° | 40°<br>140° | 45°<br>135° | 50°<br>130° | 55°<br>125° | 60°<br>120° |
|----------|------------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| $\gamma$ | Luminous intensity in cd/klm |            |             |             |             |             |             |             |             |             |             |             |             |
| 115,0°   | 8.8                          | 8.8        | 9.1         | 9.4         | 9.4         | 9.4         | 9.8         | 9.8         | 10.1        | 10.1        | 10.1        | 10.4        | 10.4        |
| 117,5°   | 8.1                          | 8.8        | 8.8         | 8.8         | 9.1         | 9.1         | 9.4         | 9.4         | 9.8         | 9.8         | 9.8         | 9.8         | 9.8         |
| 120,0°   | 8.1                          | 8.1        | 8.1         | 8.8         | 8.8         | 8.8         | 9.1         | 9.1         | 9.1         | 9.1         | 9.4         | 9.4         | 9.8         |
| 122,5°   | 7.5                          | 7.5        | 8.1         | 8.1         | 8.1         | 8.5         | 8.8         | 8.8         | 8.8         | 8.8         | 8.8         | 9.1         | 9.1         |
| 125,0°   | 6.8                          | 6.8        | 7.2         | 7.5         | 7.5         | 7.5         | 7.5         | 8.1         | 8.1         | 8.1         | 8.1         | 8.1         | 8.1         |
| 127,5°   | 5.9                          | 5.9        | 6.2         | 6.2         | 6.2         | 6.5         | 6.5         | 6.8         | 6.8         | 6.8         | 6.8         | 6.8         | 6.8         |
| 130,0°   | 4.9                          | 4.6        | 4.9         | 4.9         | 4.9         | 4.9         | 4.9         | 4.9         | 4.9         | 5.2         | 5.2         | 5.2         | 5.2         |
| 132,5°   | 3.6                          | 3.6        | 3.6         | 3.6         | 3.6         | 3.6         | 3.6         | 3.6         | 3.6         | 3.6         | 3.6         | 3.6         | 3.6         |
| 135,0°   | 3.6                          | 3.3        | 3.3         | 3.3         | 3.3         | 3.3         | 3.3         | 2.9         | 3.3         | 3.3         | 3.3         | 2.9         | 3.3         |
| 137,5°   | 2.6                          | 2.9        | 2.6         | 2.6         | 2.6         | 2.6         | 2.6         | 2.6         | 2.6         | 2.6         | 2.6         | 2.6         | 2.6         |
| 140,0°   | 2.3                          | 2.3        | 2.3         | 2.3         | 2.3         | 2.3         | 2.3         | 2.3         | 2.3         | 2.3         | 2.3         | 2.3         | 2.3         |
| 142,5°   | 2.0                          | 2.0        | 2.0         | 2.0         | 2.0         | 2.0         | 2.0         | 2.0         | 2.0         | 2.0         | 2.0         | 2.0         | 2.0         |
| 145,0°   | 1.6                          | 1.6        | 1.6         | 1.6         | 1.6         | 1.6         | 1.6         | 1.6         | 1.6         | 1.6         | 1.3         | 1.6         | 1.6         |
| 147,5°   | 1.3                          | 1.3        | 1.3         | 1.3         | 1.3         | 1.3         | 1.3         | 1.3         | 1.3         | 1.3         | 1.3         | 1.3         | 1.3         |
| 150,0°   | 0.0                          | 0.0        | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 165,0°   | 0.0                          | 0.0        | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| 180,0°   | 0.0                          | 0.0        | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |

## Photometric test report


|  |  |                                     |
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| <b>Family</b><br><b>MUSHROOM LUMINAIRE LED</b> | <b>Order number: 5XA5233BB14H</b><br><b>EAN: 4058352436080</b> | <b>LP number</b><br><b>57118_11</b> |
|  |  | <b>siteco</b>                       |

| C-planes | 65°<br>115°                  | 70°<br>110° | 75°<br>105° | 80°<br>100° | 85°<br>95° | 90° | 185°<br>355° | 190°<br>350° | 195°<br>345° | 200°<br>340° | 205°<br>335° | 210°<br>330° | 215°<br>325° |
|----------|------------------------------|-------------|-------------|-------------|------------|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| $\gamma$ | Luminous intensity in cd/klm |             |             |             |            |     |              |              |              |              |              |              |              |
| 115,0°   | 10.4                         | 10.4        | 10.4        | 10.4        | 9.1        | 5.2 | 8.1          | 8.1          | 7.5          | 7.5          | 6.8          | 6.5          | 6.2          |
| 117,5°   | 10.1                         | 10.4        | 10.4        | 10.4        | 8.1        | 3.9 | 8.1          | 7.5          | 7.5          | 6.8          | 6.8          | 6.2          | 6.2          |
| 120,0°   | 9.8                          | 9.8         | 9.8         | 9.8         | 7.2        | 3.9 | 7.5          | 7.5          | 6.8          | 6.8          | 6.2          | 6.2          | 5.5          |
| 122,5°   | 9.4                          | 9.4         | 9.4         | 9.4         | 6.2        | 2.6 | 7.2          | 6.8          | 6.8          | 6.2          | 6.2          | 5.5          | 5.5          |
| 125,0°   | 8.5                          | 8.5         | 8.5         | 8.5         | 5.5        | 2.6 | 6.5          | 6.2          | 6.2          | 5.9          | 5.5          | 5.2          | 4.9          |
| 127,5°   | 6.8                          | 7.2         | 7.2         | 6.8         | 4.6        | 2.6 | 5.9          | 5.2          | 5.2          | 4.9          | 4.9          | 4.6          | 4.2          |
| 130,0°   | 5.5                          | 5.5         | 5.5         | 4.9         | 3.6        | 2.0 | 4.2          | 4.2          | 3.9          | 3.9          | 3.6          | 3.6          | 3.6          |
| 132,5°   | 3.6                          | 3.6         | 3.9         | 3.6         | 2.3        | 2.0 | 3.6          | 3.3          | 2.9          | 2.9          | 2.9          | 2.9          | 2.9          |
| 135,0°   | 3.3                          | 3.3         | 3.3         | 2.6         | 2.0        | 1.3 | 2.9          | 2.9          | 2.9          | 2.6          | 2.6          | 2.6          | 2.6          |
| 137,5°   | 2.6                          | 2.6         | 2.6         | 2.6         | 2.0        | 1.3 | 2.6          | 2.6          | 2.6          | 2.6          | 2.6          | 2.3          | 2.3          |
| 140,0°   | 2.3                          | 2.6         | 2.3         | 2.0         | 1.3        | 1.3 | 2.3          | 2.3          | 2.3          | 2.0          | 2.0          | 2.0          | 2.0          |
| 142,5°   | 2.0                          | 2.0         | 2.0         | 1.6         | 1.3        | 1.3 | 2.0          | 2.0          | 2.0          | 2.0          | 2.0          | 2.0          | 1.6          |
| 145,0°   | 1.3                          | 1.3         | 1.3         | 1.3         | 1.3        | 1.3 | 1.6          | 1.6          | 1.6          | 1.6          | 1.3          | 1.3          | 1.3          |
| 147,5°   | 1.3                          | 1.3         | 1.3         | 1.3         | 1.3        | 0.7 | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          |
| 150,0°   | 0.0                          | 0.0         | 0.0         | 0.0         | 0.0        | 0.0 | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          |
| 165,0°   | 0.0                          | 0.0         | 0.0         | 0.0         | 0.0        | 0.0 | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          |
| 180,0°   | 0.0                          | 0.0         | 0.0         | 0.0         | 0.0        | 0.0 | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          |

| C-planes | 220°<br>320°                 | 225°<br>315° | 230°<br>310° | 235°<br>305° | 240°<br>300° | 245°<br>295° | 250°<br>290° | 255°<br>285° | 260°<br>280° | 265°<br>275° | 270° | Phi-zone                | Total<br>Phi-zone |
|----------|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|-------------------------|-------------------|
| $\gamma$ | Luminous intensity in cd/klm |              |              |              |              |              |              |              |              |              |      | Luminous flux in lm/klm |                   |
| 115,0°   | 5.9                          | 5.5          | 5.2          | 4.9          | 4.6          | 4.2          | 4.2          | 3.6          | 3.6          | 2.9          | 2.0  | 1.9                     | 989.1             |
| 117,5°   | 5.5                          | 5.5          | 4.9          | 4.9          | 4.2          | 4.2          | 3.6          | 3.6          | 3.3          | 2.9          | 2.0  | 1.8                     | 990.9             |
| 120,0°   | 5.5                          | 4.9          | 4.9          | 4.2          | 4.2          | 4.2          | 3.6          | 3.6          | 3.3          | 2.3          | 2.0  | 1.7                     | 992.5             |
| 122,5°   | 5.2                          | 4.9          | 4.6          | 4.2          | 4.2          | 3.6          | 3.6          | 3.3          | 3.3          | 2.3          | 2.0  | 1.5                     | 994.1             |
| 125,0°   | 4.9                          | 4.6          | 4.2          | 4.2          | 3.6          | 3.6          | 3.6          | 2.9          | 2.9          | 2.3          | 2.0  | 1.4                     | 995.4             |
| 127,5°   | 3.9                          | 3.9          | 3.6          | 3.6          | 2.9          | 2.9          | 2.9          | 2.6          | 2.3          | 2.0          | 2.0  | 1.1                     | 996.5             |
| 130,0°   | 2.9                          | 2.9          | 2.9          | 2.6          | 2.6          | 2.3          | 2.3          | 2.3          | 2.0          | 1.6          | 1.3  | 0.8                     | 997.4             |
| 132,5°   | 2.6                          | 2.6          | 2.3          | 2.3          | 2.3          | 2.0          | 2.0          | 2.0          | 1.6          | 1.3          | 1.3  | 0.6                     | 998.0             |
| 135,0°   | 2.6                          | 2.3          | 2.0          | 2.0          | 2.0          | 2.0          | 2.0          | 2.0          | 1.3          | 1.3          | 1.3  | 0.5                     | 998.5             |
| 137,5°   | 2.0                          | 2.0          | 2.0          | 2.0          | 2.0          | 1.6          | 2.0          | 1.6          | 1.3          | 1.3          | 1.3  | 0.4                     | 998.9             |
| 140,0°   | 2.0                          | 2.0          | 1.6          | 1.6          | 1.6          | 1.6          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3  | 0.4                     | 999.3             |
| 142,5°   | 1.6                          | 1.6          | 1.3          | 1.6          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3  | 0.3                     | 999.5             |
| 145,0°   | 1.6                          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3  | 0.2                     | 999.8             |
| 147,5°   | 1.3                          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3          | 1.3  | 0.2                     | 1000.0            |
| 150,0°   | 0.0                          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0  | 0.0                     | 1000.0            |
| 165,0°   | 0.0                          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0  | 0.0                     | 1000.0            |
| 180,0°   | 0.0                          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0          | 0.0  | 0.0                     | 1000.0            |

## Photometric test report

|  |  |                                     |
|--|--|-------------------------------------|
| <b>Family</b><br><b>MUSHROOM LUMINAIRE LED</b> | <b>Order number: 5XA5233BB14H</b><br><b>EAN: 4058352436080</b> | <b>LP number</b><br><b>57118_11</b> |
|--|--|-------------------------------------|

|                             |                                 |   |
|-----------------------------|---------------------------------|---|
| <b>Dimming levels table</b> | environmental temperature: 25°C |  |
|-----------------------------|---------------------------------|---|

| Luminous flux % | Dimming level linear | Luminous flux [lm] | Power consumption [W] start of lifetime | Power consumption [W] end of lifetime | Power consumption [W] average |
|-----------------|----------------------|--------------------|---|---------------------------------------|-------------------------------|
| 100             | 254                  | 1530               | 15.0                                    | 15.5                                  | 15.2                          |
| 95              | 241                  | 1452               | 14.0                                    | 14.6                                  | 14.3                          |
| 90              | 229                  | 1379               | 13.2                                    | 13.8                                  | 13.5                          |
| 85              | 216                  | 1301               | 12.3                                    | 12.9                                  | 12.6                          |
| 80              | 203                  | 1223               | 11.7                                    | 12.1                                  | 11.9                          |
| 75              | 190                  | 1144               | 10.8                                    | 11.3                                  | 11.0                          |
| 70              | 178                  | 1072               | 10.1                                    | 10.5                                  | 10.3                          |
| 65              | 165                  | 994                | 9.4                                     | 9.7                                   | 9.6                           |
| 60              | 152                  | 916                | 8.6                                     | 9.0                                   | 8.8                           |
| 55              | 140                  | 843                | 8.0                                     | 8.3                                   | 8.2                           |
| 50              | 127                  | 765                | 7.4                                     | 7.6                                   | 7.5                           |
| 45              | 114                  | 687                | 6.8                                     | 7.0                                   | 6.9                           |
| 40              | 102                  | 614                | 6.2                                     | 6.3                                   | 6.2                           |
| 35              | 89                   | 536                | 5.5                                     | 5.7                                   | 5.6                           |
| 30              | 76                   | 458                | 4.9                                     | 5.0                                   | 5.0                           |
| 25              | 63                   | 379                | 4.3                                     | 4.4                                   | 4.4                           |
| 20              | 51                   | 307                | 3.6                                     | 3.7                                   | 3.6                           |
| 15              | 38                   | 229                | 2.8                                     | 2.9                                   | 2.8                           |
| 13              | 33                   | 199                | 2.5                                     | 2.6                                   | 2.6                           |