

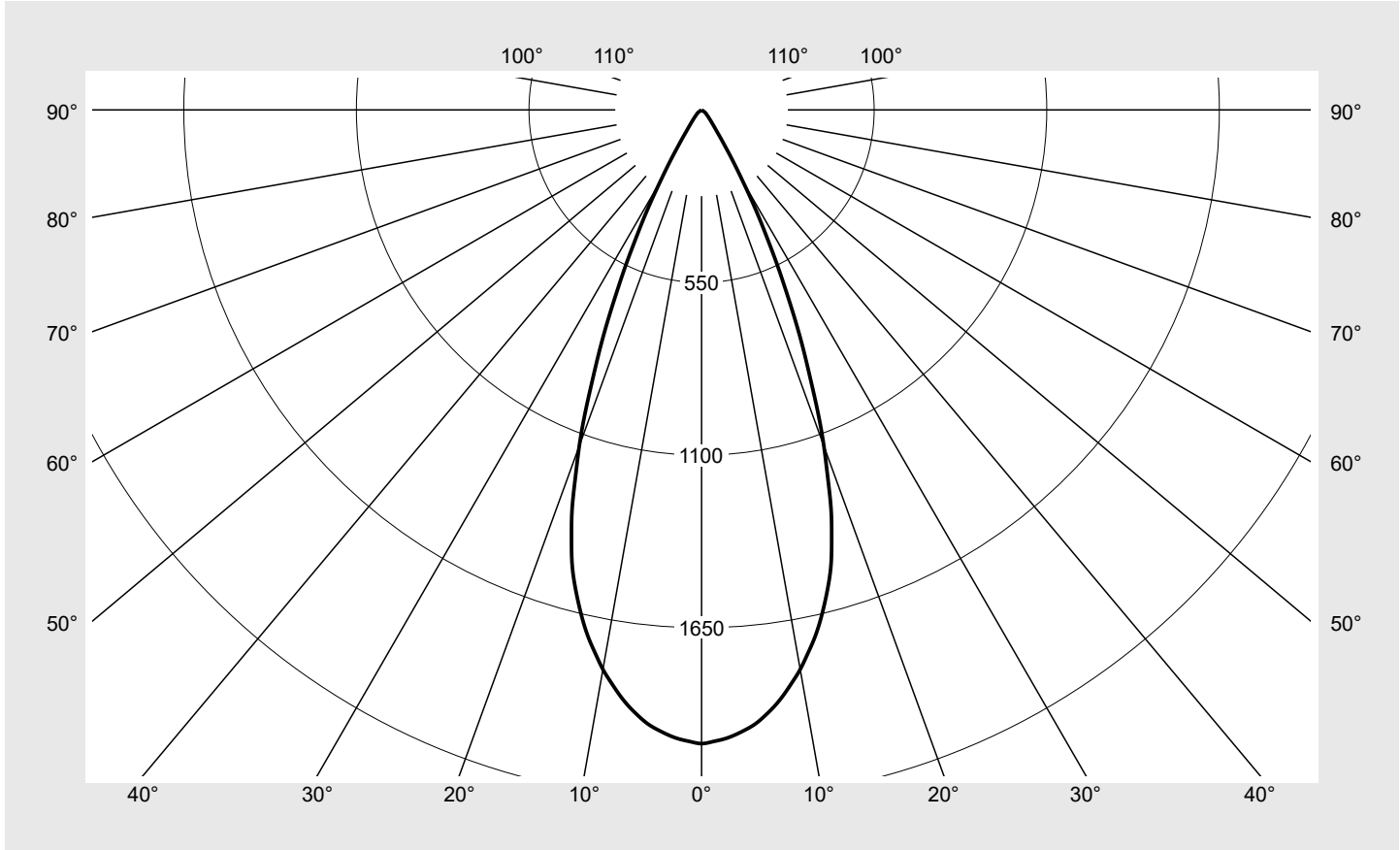


# Photometric test report

|   |  |   |
|---|--|---|
| <b>Family</b><br><b>Spot 31 slim</b>  | <b>Order number: 51SF137FA2B</b><br><b>EAN: 4058352746233</b>  | <b>LP number</b><br><b>59470_1</b>  |
|  | <b>Version</b> Combined lens and reflector optics, medium distribution<br><b>Lamps</b> LED 2700 K   CRI ≥ 90<br><b>Controlgear</b> ECG | <b>serial documentation</b><br><b>09.08.2023</b>                                    |
|   | <b>Rated values</b><br>Net luminous flux = 2150 lm<br>Power consumption = 17.6 W<br>Luminous efficacy = 122.2 lm/W                     |  |

**Luminous intensity in cd/klm** C180-0 **Imax: 2019 cd/klm**



| Classifications |                                      |
|-----------------|--------------------------------------|
| DIN 5040        | A 8 0                                |
| CIE             | N1=97 N2=100 N3=100<br>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

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

| C-planes | 0°                           | Phi-zone | Total Phi-zone          |
|----------|------------------------------|----------|-------------------------|
| $\gamma$ | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 0°       | 2019.2                       | 0.5      | 0.5                     |
| 1°       | 2013.4                       | 3.9      | 4.3                     |
| 2°       | 2006.2                       | 7.7      | 12.0                    |
| 3°       | 1995.1                       | 11.5     | 23.5                    |
| 4°       | 1980.8                       | 15.2     | 38.6                    |
| 5°       | 1964.0                       | 18.8     | 57.4                    |
| 6°       | 1940.2                       | 22.2     | 79.6                    |
| 7°       | 1913.4                       | 25.6     | 105.2                   |
| 8°       | 1881.8                       | 28.7     | 133.9                   |
| 9°       | 1846.5                       | 31.7     | 165.6                   |
| 10°      | 1810.3                       | 34.5     | 200.1                   |
| 11°      | 1767.4                       | 37.0     | 237.1                   |
| 12°      | 1724.3                       | 39.3     | 276.4                   |
| 13°      | 1675.3                       | 41.3     | 317.7                   |
| 14°      | 1620.8                       | 43.0     | 360.7                   |
| 15°      | 1563.4                       | 44.4     | 405.1                   |
| 16°      | 1498.7                       | 45.3     | 450.4                   |
| 17°      | 1417.9                       | 45.5     | 495.8                   |
| 18°      | 1334.9                       | 45.2     | 541.1                   |
| 19°      | 1233.5                       | 44.0     | 585.1                   |
| 20°      | 1139.5                       | 42.7     | 627.8                   |
| 21°      | 1037.2                       | 40.8     | 668.6                   |
| 22°      | 928.2                        | 38.1     | 706.7                   |
| 23°      | 831.6                        | 35.6     | 742.4                   |
| 24°      | 734.7                        | 32.8     | 775.1                   |
| 25°      | 637.9                        | 29.6     | 804.7                   |
| 26°      | 552.0                        | 26.5     | 831.2                   |
| 27°      | 467.3                        | 23.3     | 854.5                   |
| 28°      | 395.6                        | 20.4     | 874.9                   |
| 29°      | 326.8                        | 17.4     | 892.2                   |
| 30°      | 262.9                        | 14.4     | 906.6                   |
| 31°      | 213.7                        | 12.1     | 918.7                   |
| 32°      | 171.6                        | 10.0     | 928.7                   |
| 33°      | 135.7                        | 8.1      | 936.8                   |
| 34°      | 110.7                        | 6.8      | 943.6                   |
| 35°      | 89.9                         | 5.7      | 949.2                   |
| 36°      | 76.1                         | 4.9      | 954.1                   |
| 37°      | 65.6                         | 4.3      | 958.5                   |
| 38°      | 57.0                         | 3.8      | 962.3                   |
| 39°      | 50.9                         | 3.5      | 965.8                   |
| 40°      | 45.3                         | 3.2      | 969.0                   |
| 41°      | 40.5                         | 2.9      | 971.9                   |
| 42°      | 36.5                         | 2.7      | 974.6                   |
| 43°      | 33.0                         | 2.5      | 977.1                   |
| 44°      | 30.3                         | 2.3      | 979.4                   |
| 45°      | 27.4                         | 2.1      | 981.5                   |
| 46°      | 24.5                         | 1.9      | 983.4                   |

| C-planes | 0°                           | Phi-zone | Total Phi-zone          |
|----------|------------------------------|----------|-------------------------|
| $\gamma$ | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 47°      | 22.8                         | 1.8      | 985.3                   |
| 48°      | 21.3                         | 1.7      | 987.0                   |
| 49°      | 19.7                         | 1.6      | 988.6                   |
| 50°      | 18.9                         | 1.6      | 990.2                   |
| 51°      | 17.5                         | 1.5      | 991.7                   |
| 52°      | 15.5                         | 1.3      | 993.0                   |
| 53°      | 13.7                         | 1.2      | 994.2                   |
| 54°      | 11.8                         | 1.0      | 995.3                   |
| 55°      | 9.9                          | 0.9      | 996.2                   |
| 56°      | 8.1                          | 0.7      | 996.9                   |
| 57°      | 6.8                          | 0.6      | 997.5                   |
| 58°      | 5.8                          | 0.5      | 998.1                   |
| 59°      | 4.8                          | 0.4      | 998.5                   |
| 60°      | 3.9                          | 0.4      | 998.9                   |
| 61°      | 3.2                          | 0.3      | 999.2                   |
| 62°      | 2.5                          | 0.2      | 999.4                   |
| 63°      | 1.8                          | 0.2      | 999.6                   |
| 64°      | 1.3                          | 0.1      | 999.7                   |
| 65°      | 1.0                          | 0.1      | 999.8                   |
| 66°      | 0.5                          | 0.1      | 999.9                   |
| 67°      | 0.1                          | 0.0      | 999.9                   |
| 68°      | 0.0                          | 0.0      | 999.9                   |
| 69°      | 0.0                          | 0.0      | 999.9                   |
| 70°      | 0.0                          | 0.0      | 999.9                   |
| 71°      | 0.0                          | 0.0      | 999.9                   |
| 72°      | 0.0                          | 0.0      | 999.9                   |
| 73°      | 0.0                          | 0.0      | 999.9                   |
| 74°      | 0.0                          | 0.0      | 999.9                   |
| 75°      | 0.0                          | 0.0      | 999.9                   |
| 76°      | 0.0                          | 0.0      | 999.9                   |
| 77°      | 0.0                          | 0.0      | 999.9                   |
| 78°      | 0.0                          | 0.0      | 999.9                   |
| 79°      | 0.0                          | 0.0      | 999.9                   |
| 80°      | 0.0                          | 0.0      | 999.9                   |
| 81°      | 0.0                          | 0.0      | 999.9                   |
| 82°      | 0.0                          | 0.0      | 999.9                   |
| 83°      | 0.0                          | 0.0      | 999.9                   |
| 84°      | 0.0                          | 0.0      | 999.9                   |
| 85°      | 0.0                          | 0.0      | 1000.0                  |
| 86°      | 0.0                          | 0.0      | 1000.0                  |
| 87°      | 0.0                          | 0.0      | 1000.0                  |
| 88°      | 0.0                          | 0.0      | 1000.0                  |
| 89°      | 0.1                          | 0.0      | 1000.0                  |
| 90°      | 0.5                          | 0.1      | 1000.0                  |

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|-------------------------------|---|-----------------------------|
| Family<br><b>Spot 31 slim</b> | Order number: <b>51SF137FA2B</b><br>EAN: <b>4058352746233</b> | LP number<br><b>59470_1</b> |
|-------------------------------|---|-----------------------------|

|           |               |        |  |  |  |  |  |  |  |  |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|
| 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                  | 17.6 | 18.6 | 18.0 | 19.0 | 19.3               | 17.6 | 18.6 | 18.0 | 19.0 | 19.3 |
|                              | 3H                  | 17.5 | 18.3 | 17.8 | 18.7 | 19.0               | 17.5 | 18.3 | 17.8 | 18.7 | 19.0 |
|                              | 4H                  | 17.4 | 18.2 | 17.8 | 18.5 | 18.9               | 17.4 | 18.2 | 17.8 | 18.5 | 18.9 |
|                              | 6H                  | 17.3 | 18.0 | 17.7 | 18.4 | 18.8               | 17.3 | 18.0 | 17.7 | 18.4 | 18.8 |
|                              | 8H                  | 17.4 | 17.9 | 17.8 | 18.3 | 18.7               | 17.4 | 17.9 | 17.8 | 18.3 | 18.7 |
|                              | 12H                 | 17.3 | 17.8 | 17.8 | 18.2 | 18.6               | 17.3 | 17.8 | 17.8 | 18.2 | 18.6 |
| 4H                           | 2H                  | 17.4 | 18.2 | 17.8 | 18.6 | 19.0               | 17.4 | 18.2 | 17.8 | 18.6 | 19.0 |
|                              | 3H                  | 17.2 | 17.9 | 17.6 | 18.3 | 18.7               | 17.2 | 17.9 | 17.6 | 18.3 | 18.7 |
|                              | 4H                  | 17.1 | 17.7 | 17.5 | 18.1 | 18.5               | 17.1 | 17.7 | 17.5 | 18.1 | 18.5 |
|                              | 6H                  | 17.0 | 17.5 | 17.4 | 17.9 | 18.4               | 17.0 | 17.5 | 17.4 | 17.9 | 18.4 |
|                              | 8H                  | 17.0 | 17.4 | 17.4 | 17.8 | 18.3               | 17.0 | 17.4 | 17.4 | 17.8 | 18.3 |
|                              | 12H                 | 16.9 | 17.3 | 17.4 | 17.7 | 18.2               | 16.9 | 17.3 | 17.4 | 17.7 | 18.2 |
| 8H                           | 4H                  | 17.0 | 17.4 | 17.4 | 17.8 | 18.3               | 17.0 | 17.4 | 17.4 | 17.8 | 18.3 |
|                              | 6H                  | 16.8 | 17.2 | 17.3 | 17.6 | 18.2               | 16.8 | 17.2 | 17.3 | 17.6 | 18.2 |
|                              | 8H                  | 16.7 | 17.0 | 17.3 | 17.5 | 18.1               | 16.7 | 17.0 | 17.3 | 17.5 | 18.1 |
|                              | 12H                 | 16.7 | 16.9 | 17.2 | 17.4 | 18.0               | 16.7 | 16.9 | 17.2 | 17.4 | 18.0 |
| 12H                          | 4H                  | 16.9 | 17.3 | 17.4 | 17.7 | 18.2               | 16.9 | 17.3 | 17.4 | 17.7 | 18.2 |
|                              | 6H                  | 16.8 | 17.0 | 17.3 | 17.5 | 18.1               | 16.8 | 17.0 | 17.3 | 17.5 | 18.1 |
|                              | 8H                  | 16.7 | 16.9 | 17.2 | 17.4 | 18.0               | 16.7 | 16.9 | 17.2 | 17.4 | 18.0 |

|                 |                                 |                               |        |
|-----------------|---------------------------------|-------------------------------|--------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | D = 52 |
|-----------------|---------------------------------|-------------------------------|--------|

|          |                                |
|----------|--------------------------------|
| C-planes | 0°                             |
| $\gamma$ | Luminance in cd/m <sup>2</sup> |
| 45°      | 39168.9                        |
| 50°      | 29741.9                        |
| 55°      | 17396.1                        |
| 60°      | 7951.2                         |
| 65°      | 2469.7                         |
| 70°      | 41.4                           |
| 75°      | 0.0                            |
| 80°      | 0.0                            |
| 85°      | 162.6                          |

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|-------------------------------|---|-----------------------------|

**Luminance values in cd/m<sup>2</sup>**       $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°

