

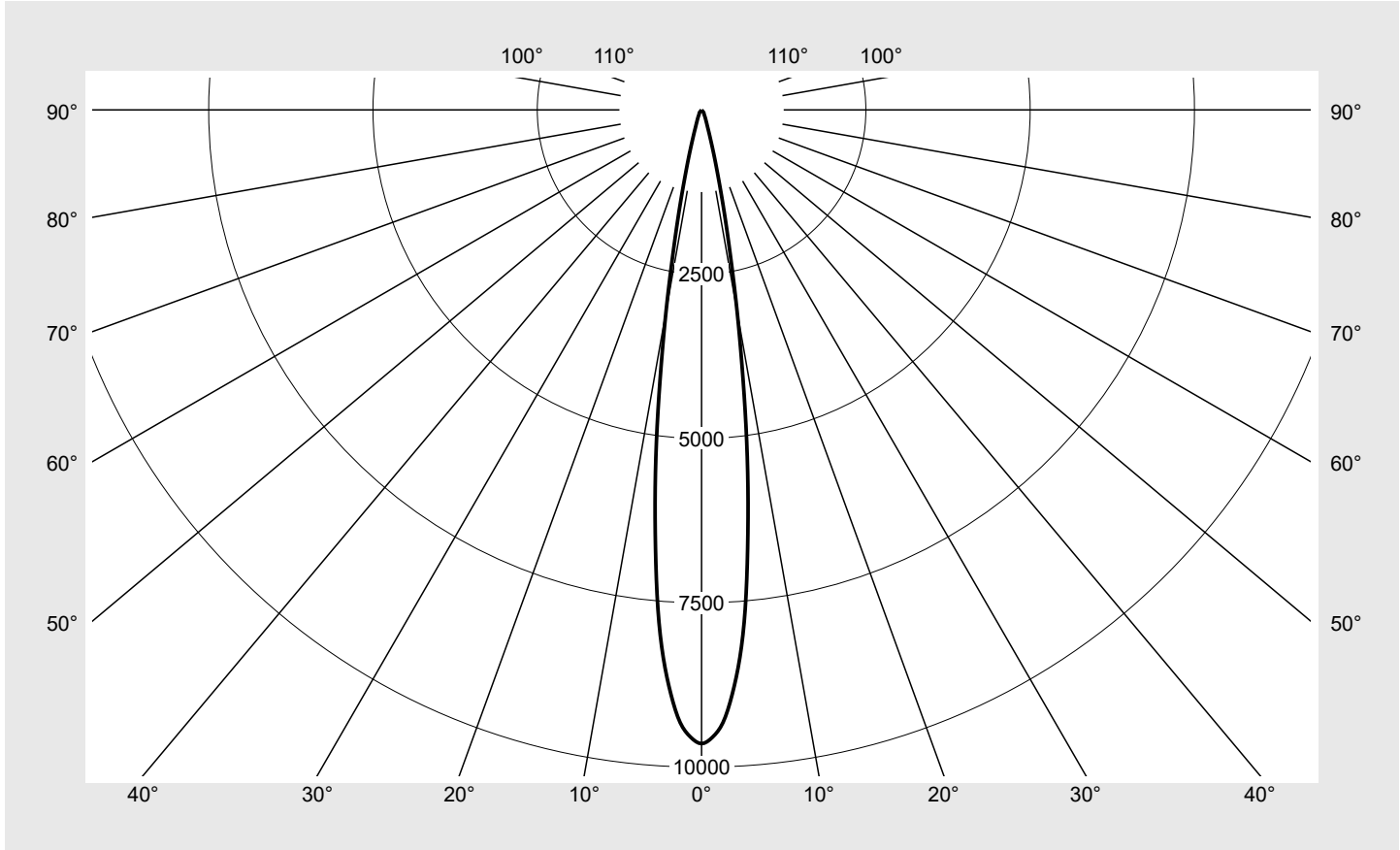


# Photometric test report

|   |   |   |
|---|---|---|
| <b>Family</b><br><b>Spot 31 slim</b>  | <b>Order number: 51SF327FA2B</b><br><b>EAN: 4058352746257</b>         | <b>LP number</b><br><b>59469_3</b>  |
|                                | <b>Version</b> Combined lens and reflector optics, narrow beam (2x8°) | <b>serial documentation</b><br><b>09.08.2023</b>                                    |
|   | <b>Lamps</b> LED 2700 K   CRI ≥ 90<br><b>Controlgear</b> ECG          |   |
| <b>Rated values</b> Net luminous flux = 2090 lm<br>Power consumption = 16.3 W<br>Luminous efficacy = 128.3 lm/W |   |  |

**Luminous intensity in cd/klm** C180-0 **I<sub>max</sub>: 9642 cd/klm**



| Classifications |                                    |
|-----------------|------------------------------------|
| DIN 5040        | A 8 0                              |
| CIE             | N1=94 N2=98 N3=99<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°       | 9641.6                       | 2.3      | 2.3                     |
| 1°       | 9544.9                       | 18.3     | 20.6                    |
| 2°       | 9328.0                       | 35.7     | 56.3                    |
| 3°       | 8904.8                       | 51.1     | 107.4                   |
| 4°       | 8352.9                       | 63.9     | 171.3                   |
| 5°       | 7620.7                       | 72.8     | 244.1                   |
| 6°       | 6706.1                       | 76.9     | 321.0                   |
| 7°       | 5790.4                       | 77.4     | 398.4                   |
| 8°       | 4856.3                       | 74.1     | 472.5                   |
| 9°       | 3926.0                       | 67.3     | 539.8                   |
| 10°      | 3114.5                       | 59.3     | 599.1                   |
| 11°      | 2385.4                       | 49.9     | 649.0                   |
| 12°      | 1823.0                       | 41.6     | 690.6                   |
| 13°      | 1378.0                       | 34.0     | 724.6                   |
| 14°      | 1029.9                       | 27.3     | 751.9                   |
| 15°      | 786.6                        | 22.3     | 774.3                   |
| 16°      | 597.5                        | 18.1     | 792.3                   |
| 17°      | 459.8                        | 14.7     | 807.1                   |
| 18°      | 366.3                        | 12.4     | 819.5                   |
| 19°      | 293.5                        | 10.5     | 830.0                   |
| 20°      | 247.1                        | 9.3      | 839.2                   |
| 21°      | 213.6                        | 8.4      | 847.6                   |
| 22°      | 186.0                        | 7.6      | 855.3                   |
| 23°      | 165.8                        | 7.1      | 862.4                   |
| 24°      | 148.3                        | 6.6      | 869.0                   |
| 25°      | 131.8                        | 6.1      | 875.1                   |
| 26°      | 118.1                        | 5.7      | 880.8                   |
| 27°      | 103.8                        | 5.2      | 885.9                   |
| 28°      | 92.8                         | 4.8      | 890.7                   |
| 29°      | 83.7                         | 4.5      | 895.2                   |
| 30°      | 76.7                         | 4.2      | 899.4                   |
| 31°      | 71.9                         | 4.1      | 903.4                   |
| 32°      | 68.2                         | 4.0      | 907.4                   |
| 33°      | 65.4                         | 3.9      | 911.3                   |
| 34°      | 63.1                         | 3.9      | 915.2                   |
| 35°      | 61.0                         | 3.8      | 919.0                   |
| 36°      | 59.9                         | 3.9      | 922.9                   |
| 37°      | 56.8                         | 3.7      | 926.6                   |
| 38°      | 53.0                         | 3.6      | 930.2                   |
| 39°      | 50.5                         | 3.5      | 933.7                   |
| 40°      | 47.1                         | 3.3      | 937.0                   |
| 41°      | 46.0                         | 3.3      | 940.3                   |
| 42°      | 43.0                         | 3.2      | 943.5                   |
| 43°      | 40.5                         | 3.0      | 946.5                   |
| 44°      | 39.3                         | 3.0      | 949.5                   |
| 45°      | 36.6                         | 2.8      | 952.3                   |
| 46°      | 34.3                         | 2.7      | 955.0                   |

| C-planes | 0°                           | Phi-zone | Total Phi-zone          |
|----------|------------------------------|----------|-------------------------|
| $\gamma$ | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 47°      | 32.8                         | 2.6      | 957.6                   |
| 48°      | 32.4                         | 2.6      | 960.3                   |
| 49°      | 30.2                         | 2.5      | 962.8                   |
| 50°      | 28.7                         | 2.4      | 965.2                   |
| 51°      | 26.7                         | 2.3      | 967.5                   |
| 52°      | 24.7                         | 2.1      | 969.6                   |
| 53°      | 22.2                         | 1.9      | 971.5                   |
| 54°      | 20.9                         | 1.9      | 973.4                   |
| 55°      | 18.8                         | 1.7      | 975.1                   |
| 56°      | 18.0                         | 1.6      | 976.7                   |
| 57°      | 15.8                         | 1.4      | 978.2                   |
| 58°      | 15.2                         | 1.4      | 979.6                   |
| 59°      | 13.4                         | 1.3      | 980.8                   |
| 60°      | 12.0                         | 1.1      | 982.0                   |
| 61°      | 11.2                         | 1.1      | 983.0                   |
| 62°      | 10.3                         | 1.0      | 984.0                   |
| 63°      | 9.3                          | 0.9      | 985.0                   |
| 64°      | 7.7                          | 0.8      | 985.7                   |
| 65°      | 7.1                          | 0.7      | 986.4                   |
| 66°      | 6.5                          | 0.6      | 987.1                   |
| 67°      | 5.7                          | 0.6      | 987.6                   |
| 68°      | 5.3                          | 0.5      | 988.2                   |
| 69°      | 5.2                          | 0.5      | 988.7                   |
| 70°      | 4.6                          | 0.5      | 989.2                   |
| 71°      | 4.7                          | 0.5      | 989.7                   |
| 72°      | 4.7                          | 0.5      | 990.2                   |
| 73°      | 4.9                          | 0.5      | 990.7                   |
| 74°      | 5.8                          | 0.6      | 991.3                   |
| 75°      | 5.0                          | 0.5      | 991.8                   |
| 76°      | 5.3                          | 0.6      | 992.4                   |
| 77°      | 5.1                          | 0.5      | 992.9                   |
| 78°      | 5.1                          | 0.6      | 993.5                   |
| 79°      | 5.1                          | 0.5      | 994.0                   |
| 80°      | 5.5                          | 0.6      | 994.6                   |
| 81°      | 5.2                          | 0.6      | 995.2                   |
| 82°      | 4.1                          | 0.4      | 995.6                   |
| 83°      | 4.5                          | 0.5      | 996.1                   |
| 84°      | 5.4                          | 0.6      | 996.7                   |
| 85°      | 4.8                          | 0.5      | 997.2                   |
| 86°      | 5.8                          | 0.6      | 997.9                   |
| 87°      | 5.5                          | 0.6      | 998.5                   |
| 88°      | 5.8                          | 0.6      | 999.1                   |
| 89°      | 5.5                          | 0.6      | 999.7                   |
| 90°      | 5.3                          | 0.6      | 1000.3                  |

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

|                  |                      |               |
|------------------|----------------------|---------------|
| <b>UGR-Table</b> | <b>Standard room</b> | <b>siteco</b> |
|------------------|----------------------|---------------|

|                              |                     |      |      |      |      |                    |      |      |      |      |      |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| 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                  | 18.4 | 19.3 | 18.8 | 19.6 | 19.9               | 18.4 | 19.3 | 18.8 | 19.6 | 19.9 |
|                              | 3H                  | 18.7 | 19.4 | 19.1 | 19.7 | 20.1               | 18.7 | 19.4 | 19.1 | 19.7 | 20.1 |
|                              | 4H                  | 19.0 | 19.6 | 19.4 | 20.0 | 20.4               | 19.0 | 19.6 | 19.4 | 20.0 | 20.4 |
|                              | 6H                  | 19.4 | 20.1 | 19.8 | 20.5 | 20.9               | 19.4 | 20.1 | 19.8 | 20.5 | 20.9 |
|                              | 8H                  | 19.9 | 20.5 | 20.3 | 20.9 | 21.3               | 19.9 | 20.5 | 20.3 | 20.9 | 21.3 |
|                              | 12H                 | 20.5 | 21.1 | 20.9 | 21.5 | 21.9               | 20.5 | 21.1 | 20.9 | 21.5 | 21.9 |
| 4H                           | 2H                  | 18.5 | 19.1 | 18.9 | 19.5 | 19.9               | 18.5 | 19.1 | 18.9 | 19.5 | 19.9 |
|                              | 3H                  | 18.8 | 19.4 | 19.2 | 19.8 | 20.2               | 18.8 | 19.4 | 19.2 | 19.8 | 20.2 |
|                              | 4H                  | 19.3 | 19.8 | 19.7 | 20.2 | 20.7               | 19.3 | 19.8 | 19.7 | 20.2 | 20.7 |
|                              | 6H                  | 20.0 | 20.6 | 20.5 | 21.0 | 21.5               | 20.0 | 20.6 | 20.5 | 21.0 | 21.5 |
|                              | 8H                  | 20.7 | 21.1 | 21.2 | 21.6 | 22.0               | 20.7 | 21.1 | 21.2 | 21.6 | 22.0 |
|                              | 12H                 | 21.5 | 21.9 | 22.0 | 22.4 | 22.9               | 21.5 | 21.9 | 22.0 | 22.4 | 22.9 |
| 8H                           | 4H                  | 19.5 | 19.9 | 20.0 | 20.3 | 20.8               | 19.5 | 19.9 | 20.0 | 20.3 | 20.8 |
|                              | 6H                  | 20.8 | 21.0 | 21.3 | 21.5 | 22.0               | 20.8 | 21.0 | 21.3 | 21.5 | 22.0 |
|                              | 8H                  | 21.4 | 21.6 | 21.9 | 22.1 | 22.7               | 21.4 | 21.6 | 21.9 | 22.1 | 22.7 |
|                              | 12H                 | 22.4 | 22.8 | 22.9 | 23.3 | 23.8               | 22.4 | 22.8 | 22.9 | 23.3 | 23.8 |
| 12H                          | 4H                  | 19.4 | 19.8 | 19.9 | 20.3 | 20.8               | 19.4 | 19.8 | 19.9 | 20.3 | 20.8 |
|                              | 6H                  | 20.7 | 21.1 | 21.2 | 21.6 | 22.1               | 20.7 | 21.1 | 21.2 | 21.6 | 22.1 |
|                              | 8H                  | 21.5 | 21.8 | 22.0 | 22.3 | 22.9               | 21.5 | 21.8 | 22.0 | 22.3 | 22.9 |

|                        |   |   |
|------------------------|---|---|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm: D = 52</b> |
|------------------------|---|---|

|                 |                                      |
|-----------------|--------------------------------------|
| <b>C-planes</b> | <b>0°</b>                            |
| $\gamma$        | <b>Luminance in cd/m<sup>2</sup></b> |
| 45°             | 50891.1                              |
| 50°             | 44012.4                              |
| 55°             | 32217.0                              |
| 60°             | 23530.4                              |
| 65°             | 16579.9                              |
| 70°             | 13336.7                              |
| 75°             | 19194.3                              |
| 80°             | 30949.4                              |
| 85°             | 54662.4                              |

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



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

