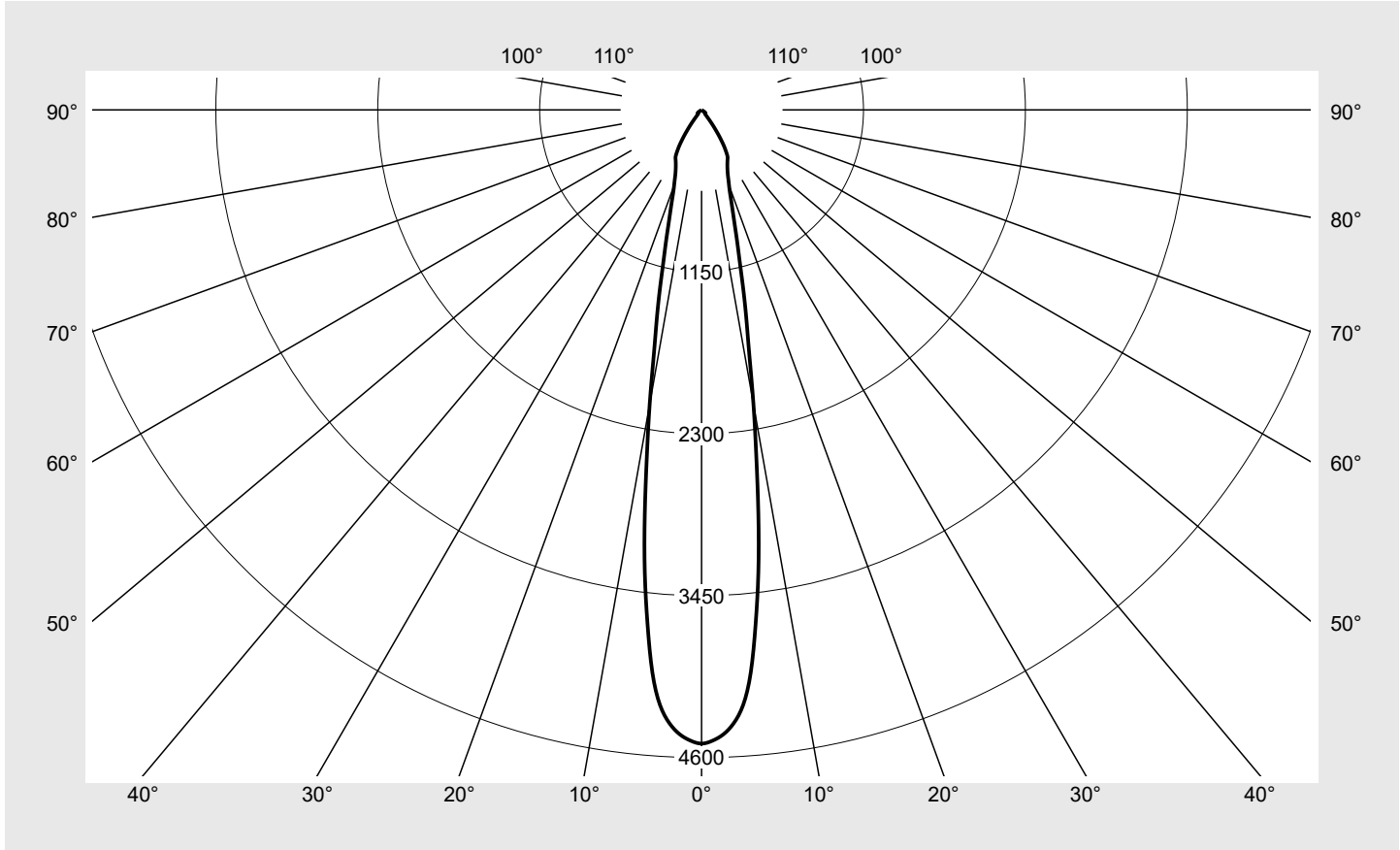


Photometric test report

| | | |
|---------------------------------|--|--|
| Family Spot 31 | Order number: 51SF62MAD4B EAN: 4058352769966 | LP number 59381_6 |
| | Version reflector, cover, polycarbonate, narrow distribution Lamps LED 4000 K CRI ≥ 90 Controlgear ECG Multilumen Setting factory setting: DIP-Step=14 Rated values Net luminous flux = 4930 lm Power consumption = 39.5 W Luminous efficacy = 124.8 lm/W | serial documentation 20.01.2023 |



Luminous intensity in cd/klm C180-0 **Imax: 4501 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 7 0 |
| CIE | N1=93 N2=97 N3=99 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

| | | |
|---|---|------------------------------------|
| Family Spot 31 | Order number: 51SF62MAD4B EAN: 4058352769966 | LP number 59381_6 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes | 0° | Phi-zone | Total Phi-zone |
|----------|------------------------------|----------|-------------------------|
| γ | Luminous intensity in cd/klm | | Luminous flux in lm/klm |
| 0° | 4500.5 | 1.1 | 1.1 |
| 1° | 4480.3 | 8.6 | 9.7 |
| 2° | 4437.5 | 17.0 | 26.6 |
| 3° | 4362.0 | 25.0 | 51.7 |
| 4° | 4236.1 | 32.4 | 84.1 |
| 5° | 4010.1 | 38.3 | 122.4 |
| 6° | 3672.5 | 42.1 | 164.5 |
| 7° | 3309.8 | 44.2 | 208.7 |
| 8° | 2898.6 | 44.2 | 253.0 |
| 9° | 2482.5 | 42.6 | 295.6 |
| 10° | 2122.6 | 40.4 | 336.0 |
| 11° | 1782.7 | 37.3 | 373.3 |
| 12° | 1538.7 | 35.1 | 408.4 |
| 13° | 1327.4 | 32.7 | 441.1 |
| 14° | 1130.4 | 30.0 | 471.1 |
| 15° | 985.0 | 28.0 | 499.1 |
| 16° | 859.9 | 26.0 | 525.0 |
| 17° | 761.9 | 24.4 | 549.5 |
| 18° | 683.9 | 23.2 | 572.6 |
| 19° | 616.9 | 22.0 | 594.7 |
| 20° | 570.3 | 21.4 | 616.1 |
| 21° | 532.3 | 20.9 | 637.0 |
| 22° | 498.2 | 20.5 | 657.4 |
| 23° | 472.4 | 20.2 | 677.7 |
| 24° | 451.2 | 20.1 | 697.8 |
| 25° | 433.6 | 20.1 | 717.9 |
| 26° | 418.4 | 20.1 | 738.0 |
| 27° | 405.2 | 20.2 | 758.2 |
| 28° | 393.9 | 20.3 | 778.5 |
| 29° | 380.9 | 20.3 | 798.7 |
| 30° | 356.4 | 19.5 | 818.3 |
| 31° | 326.4 | 18.4 | 836.7 |
| 32° | 294.9 | 17.1 | 853.8 |
| 33° | 256.7 | 15.3 | 869.2 |
| 34° | 220.2 | 13.5 | 882.7 |
| 35° | 180.4 | 11.3 | 894.0 |
| 36° | 146.1 | 9.4 | 903.4 |
| 37° | 111.1 | 7.3 | 910.8 |
| 38° | 79.1 | 5.3 | 916.1 |
| 39° | 56.1 | 3.9 | 920.0 |
| 40° | 40.9 | 2.9 | 922.8 |
| 41° | 37.1 | 2.7 | 925.5 |
| 42° | 35.5 | 2.6 | 928.1 |
| 43° | 33.6 | 2.5 | 930.6 |
| 44° | 33.1 | 2.5 | 933.2 |
| 45° | 33.1 | 2.6 | 935.7 |
| 46° | 32.9 | 2.6 | 938.3 |

| C-planes | 0° | Phi-zone | Total Phi-zone |
|----------|------------------------------|----------|-------------------------|
| γ | Luminous intensity in cd/klm | | Luminous flux in lm/klm |
| 47° | 33.1 | 2.7 | 941.0 |
| 48° | 33.6 | 2.7 | 943.7 |
| 49° | 34.5 | 2.9 | 946.6 |
| 50° | 35.6 | 3.0 | 949.6 |
| 51° | 36.2 | 3.1 | 952.6 |
| 52° | 35.7 | 3.1 | 955.7 |
| 53° | 33.7 | 2.9 | 958.7 |
| 54° | 30.9 | 2.7 | 961.4 |
| 55° | 27.6 | 2.5 | 963.9 |
| 56° | 23.6 | 2.1 | 966.1 |
| 57° | 21.0 | 1.9 | 968.0 |
| 58° | 19.1 | 1.8 | 969.8 |
| 59° | 17.3 | 1.6 | 971.4 |
| 60° | 16.3 | 1.5 | 972.9 |
| 61° | 15.8 | 1.5 | 974.5 |
| 62° | 15.5 | 1.5 | 976.0 |
| 63° | 15.1 | 1.5 | 977.4 |
| 64° | 14.4 | 1.4 | 978.9 |
| 65° | 14.1 | 1.4 | 980.3 |
| 66° | 13.7 | 1.4 | 981.6 |
| 67° | 13.0 | 1.3 | 982.9 |
| 68° | 12.9 | 1.3 | 984.3 |
| 69° | 12.5 | 1.3 | 985.5 |
| 70° | 12.0 | 1.2 | 986.8 |
| 71° | 11.4 | 1.2 | 988.0 |
| 72° | 11.1 | 1.2 | 989.1 |
| 73° | 10.6 | 1.1 | 990.2 |
| 74° | 10.1 | 1.1 | 991.3 |
| 75° | 9.5 | 1.0 | 992.3 |
| 76° | 8.7 | 0.9 | 993.2 |
| 77° | 7.7 | 0.8 | 994.0 |
| 78° | 6.8 | 0.7 | 994.8 |
| 79° | 6.5 | 0.7 | 995.5 |
| 80° | 6.1 | 0.7 | 996.1 |
| 81° | 5.4 | 0.6 | 996.7 |
| 82° | 5.2 | 0.6 | 997.3 |
| 83° | 4.8 | 0.5 | 997.8 |
| 84° | 4.1 | 0.5 | 998.2 |
| 85° | 3.8 | 0.4 | 998.7 |
| 86° | 3.1 | 0.3 | 999.0 |
| 87° | 3.1 | 0.3 | 999.3 |
| 88° | 2.5 | 0.3 | 999.6 |
| 89° | 2.2 | 0.2 | 999.9 |
| 90° | 2.5 | 0.3 | 1000.1 |

Photometric test report

| | | |
|-------------------|---|----------------------|
| Family Spot 31 | Order number: 51SF62MAD4B EAN: 4058352769966 | LP number 59381_6 |
|-------------------|---|----------------------|

| | | | | | | | | | | |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|
| 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 | 22.0 | 23.1 | 22.4 | 23.4 | 23.7 | 22.0 | 23.1 | 22.4 | 23.4 | 23.7 |
| | 3H | 22.6 | 23.5 | 23.0 | 23.8 | 24.2 | 22.6 | 23.5 | 23.0 | 23.8 | 24.2 |
| | 4H | 23.0 | 23.8 | 23.4 | 24.2 | 24.5 | 23.0 | 23.8 | 23.4 | 24.2 | 24.5 |
| | 6H | 23.2 | 24.0 | 23.7 | 24.4 | 24.8 | 23.2 | 24.0 | 23.7 | 24.4 | 24.8 |
| | 8H | 23.5 | 24.1 | 23.9 | 24.5 | 24.9 | 23.5 | 24.1 | 23.9 | 24.5 | 24.9 |
| | 12H | 23.6 | 24.2 | 24.0 | 24.6 | 25.0 | 23.6 | 24.2 | 24.0 | 24.6 | 25.0 |
| 4H | 2H | 22.1 | 23.0 | 22.5 | 23.3 | 23.7 | 22.1 | 23.0 | 22.5 | 23.3 | 23.7 |
| | 3H | 22.9 | 23.6 | 23.3 | 24.0 | 24.4 | 22.9 | 23.6 | 23.3 | 24.0 | 24.4 |
| | 4H | 23.4 | 24.0 | 23.9 | 24.5 | 24.9 | 23.4 | 24.0 | 23.9 | 24.5 | 24.9 |
| | 6H | 23.8 | 24.4 | 24.3 | 24.8 | 25.3 | 23.8 | 24.4 | 24.3 | 24.8 | 25.3 |
| | 8H | 24.1 | 24.5 | 24.6 | 25.0 | 25.5 | 24.1 | 24.5 | 24.6 | 25.0 | 25.5 |
| | 12H | 24.3 | 24.7 | 24.8 | 25.2 | 25.7 | 24.3 | 24.7 | 24.8 | 25.2 | 25.7 |
| 8H | 4H | 23.6 | 24.0 | 24.1 | 24.5 | 25.0 | 23.6 | 24.0 | 24.1 | 24.5 | 25.0 |
| | 6H | 24.2 | 24.5 | 24.7 | 25.0 | 25.5 | 24.2 | 24.5 | 24.7 | 25.0 | 25.5 |
| | 8H | 24.5 | 24.8 | 25.0 | 25.3 | 25.8 | 24.5 | 24.8 | 25.0 | 25.3 | 25.8 |
| | 12H | 24.8 | 25.1 | 25.3 | 25.6 | 26.1 | 24.8 | 25.1 | 25.3 | 25.6 | 26.1 |
| 12H | 4H | 23.6 | 24.0 | 24.1 | 24.4 | 24.9 | 23.6 | 24.0 | 24.1 | 24.4 | 24.9 |
| | 6H | 24.2 | 24.5 | 24.7 | 25.0 | 25.5 | 24.2 | 24.5 | 24.7 | 25.0 | 25.5 |
| | 8H | 24.5 | 24.8 | 25.0 | 25.3 | 25.9 | 24.5 | 24.8 | 25.0 | 25.3 | 25.9 |

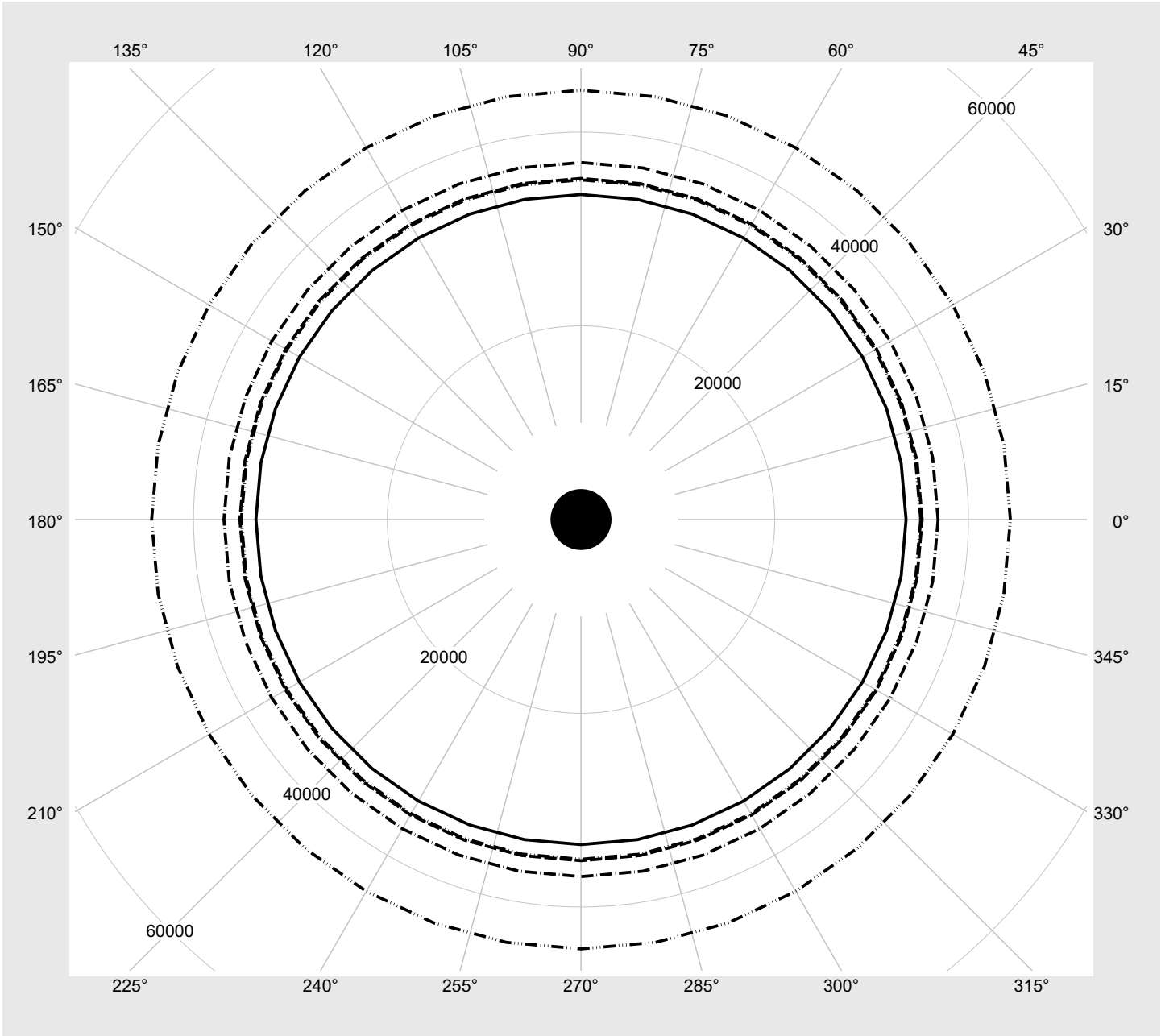
| | | |
|-----------------|---------------------------------|--------------------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: D = 79 |
|-----------------|---------------------------------|--------------------------------------|

| | |
|----------|--------------------------------|
| C-planes | 0° |
| γ | Luminance in cd/m ² |
| 45° | 47052.6 |
| 50° | 55763.3 |
| 55° | 48472.6 |
| 60° | 32822.6 |
| 65° | 33558.7 |
| 70° | 35217.9 |
| 75° | 36862.9 |
| 80° | 35070.9 |
| 85° | 44325.2 |

Photometric test report

| | | |
|---------------------------------|---|------------------------------------|
| Family Spot 31 | Order number: 51SF62MAD4B EAN: 4058352769966 | LP number 59381_6 |
|---------------------------------|---|------------------------------------|

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

| | | |
|--------------------------|---|-----------------------------|
| Family Spot 31 | Order number: 51SF62MAD4B EAN: 4058352769966 | LP number 59381_6 |
|--------------------------|---|-----------------------------|

| | | |
|-------------------------|---------------------------------|---------------|
| Multilumen Table | environmental temperature: 25°C | siteco |
|-------------------------|---------------------------------|---------------|

| DIP-Step | Switch Setting | | | | Luminous flux [lm] | Power consumption [W] |
|----------|----------------|-----|-----|-----|-----------------------|--------------------------|
| | 1 | 2 | 3 | 4 | | |
| 15 | ON | ON | ON | ON | 5140 | 41.6 |
| 14 | ON | ON | ON | OFF | 4930 | 39.5 |
| 13 | ON | ON | OFF | ON | 4730 | 37.5 |
| 12 | ON | ON | OFF | OFF | 4500 | 35.1 |
| 11 | ON | OFF | ON | ON | 4310 | 33.4 |
| 10 | ON | OFF | ON | OFF | 4090 | 31.5 |
| 9 | ON | OFF | OFF | ON | 3850 | 28.9 |
| 8 | ON | OFF | OFF | OFF | 3650 | 26.9 |
| 7 | OFF | ON | ON | ON | 3430 | 25.8 |
| 6 | OFF | ON | ON | OFF | 3190 | 23.8 |
| 5 | OFF | ON | OFF | ON | 2960 | 21.8 |
| 4 | OFF | ON | OFF | OFF | 2710 | 19.9 |
| 3 | OFF | OFF | ON | ON | 2440 | 17.8 |
| 2 | OFF | OFF | ON | OFF | 2190 | 15.8 |
| 1 | OFF | OFF | OFF | ON | 1840 | 13.8 |
| 0 | OFF | OFF | OFF | OFF | 1590 | 11.9 |