
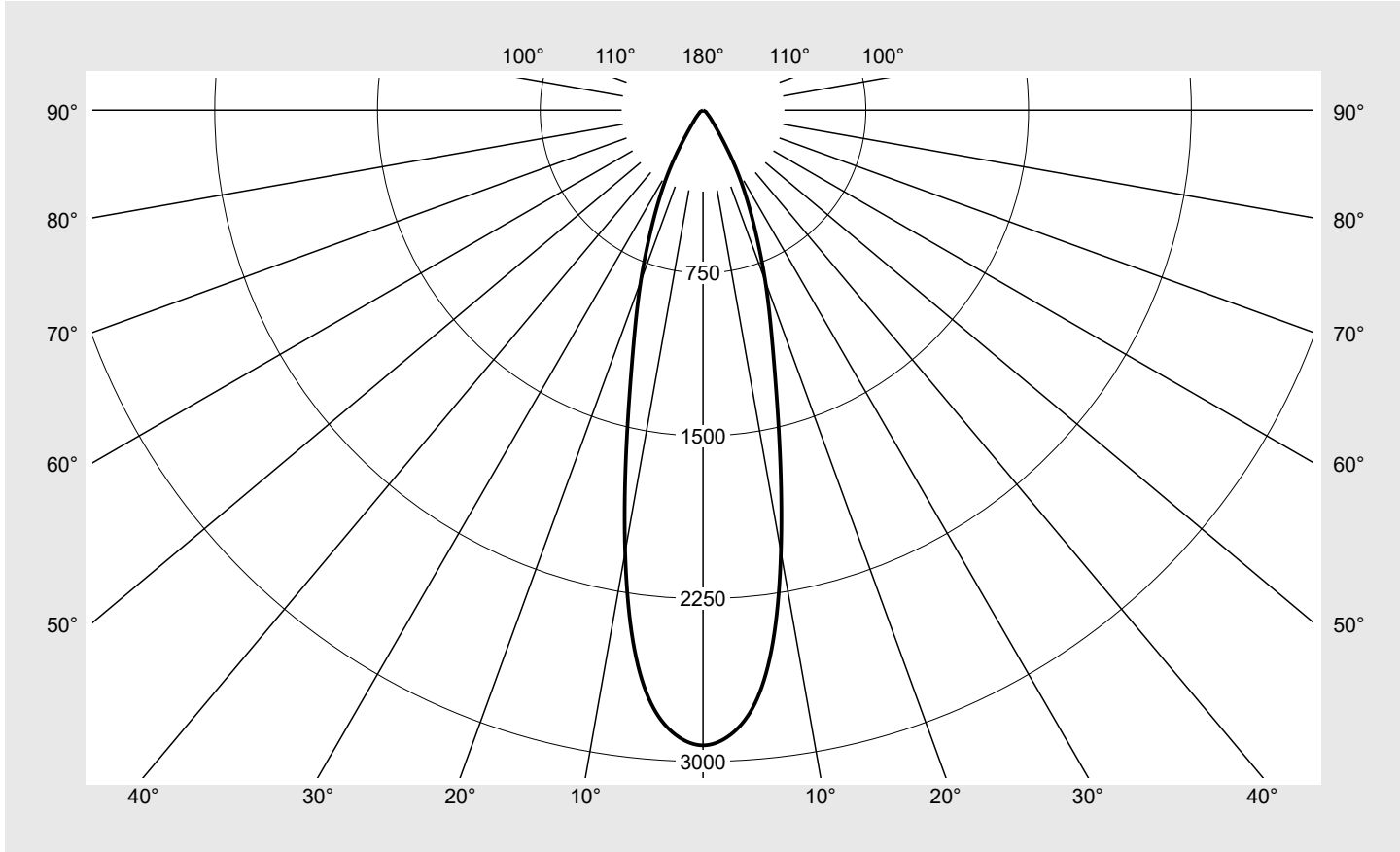


# Photometric test report

|  |   |  |
|--|---|--|
| <b>Family</b><br><b>Spot 21 Standard</b> | <b>Order number: 51SE12DA2CD2C</b><br><b>EAN: 4069025446794</b>   | <b>LP number</b><br><b>59930_16</b>              |
|  | <b>Version</b> housing, white, reflector, lens PMMA, medium distribution<br><b>Lamps</b> LED 4000 K   CRI ≥ 90<br><b>Controlgear</b> ECG-DALI-Multilumen<br><b>Setting</b> factory setting: DIP-Step=5<br><b>Rated values</b> Net luminous flux = 2190 lm<br>Power consumption = 15.6 W<br>Luminous efficacy = 140.4 lm/W | <b>serial documentation</b><br><b>11.05.2026</b> |



**Luminous intensity in cd/klm** C180-0 **Imax: 2926 cd/klm**



| Classifications |                                     |
|-----------------|-------------------------------------|
| DIN 5040        | A 8 0                               |
| CIE             | N1=94 N2=98 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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|                                   |   |                              |
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|-----------------------------------|---|------------------------------|

**sITeco**

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

| C-planes | 0°                           | Phi-zone                | Total Phi-zone |
|----------|------------------------------|-------------------------|----------------|
| $\gamma$ | Luminous intensity in cd/klm | Luminous flux in lm/klm |                |
| 0,0°     | 2925.8                       | 4.4                     | 4.4            |
| 2,5°     | 2880.2                       | 34.4                    | 38.8           |
| 5,0°     | 2743.4                       | 65.5                    | 104.4          |
| 7,5°     | 2469.4                       | 88.4                    | 192.7          |
| 10,0°    | 2066.4                       | 98.4                    | 291.1          |
| 12,5°    | 1641.6                       | 97.4                    | 388.5          |
| 15,0°    | 1288.9                       | 91.5                    | 479.9          |
| 17,5°    | 1036.1                       | 85.4                    | 565.3          |
| 20,0°    | 838.8                        | 78.6                    | 644.0          |
| 22,5°    | 662.8                        | 69.5                    | 713.5          |
| 25,0°    | 519.2                        | 60.2                    | 773.7          |
| 27,5°    | 397.3                        | 50.3                    | 824.0          |
| 30,0°    | 287.9                        | 39.5                    | 863.4          |
| 32,5°    | 189.6                        | 27.9                    | 891.4          |
| 35,0°    | 126.2                        | 19.8                    | 911.2          |
| 37,5°    | 88.2                         | 14.7                    | 925.9          |
| 40,0°    | 65.4                         | 11.5                    | 937.4          |
| 42,5°    | 51.6                         | 9.6                     | 947.0          |
| 45,0°    | 39.6                         | 7.7                     | 954.7          |
| 47,5°    | 31.5                         | 6.4                     | 961.0          |
| 50,0°    | 25.2                         | 5.3                     | 966.3          |
| 52,5°    | 21.1                         | 4.6                     | 970.9          |
| 55,0°    | 19.1                         | 4.3                     | 975.2          |
| 57,5°    | 17.3                         | 4.0                     | 979.2          |
| 60,0°    | 15.4                         | 3.6                     | 982.8          |
| 62,5°    | 13.7                         | 3.3                     | 986.2          |
| 65,0°    | 11.8                         | 2.9                     | 989.1          |
| 67,5°    | 9.9                          | 2.5                     | 991.6          |
| 70,0°    | 8.2                          | 2.1                     | 993.7          |
| 72,5°    | 6.8                          | 1.8                     | 995.5          |
| 75,0°    | 5.5                          | 1.5                     | 997.0          |
| 77,5°    | 4.3                          | 1.2                     | 998.1          |
| 80,0°    | 3.2                          | 0.9                     | 999.0          |
| 82,5°    | 2.1                          | 0.6                     | 999.6          |
| 85,0°    | 1.2                          | 0.3                     | 999.9          |
| 87,5°    | 0.3                          | 0.1                     | 1000.0         |
| 90,0°    | 0.0                          | 0.0                     | 1000.0         |

## Photometric test report

|                            |   |                       |
|----------------------------|---|-----------------------|
| Family<br>Spot 21 Standard | Order number: 51SE12DA2CD2C<br>EAN: 4069025446794 | LP number<br>59930_16 |
|----------------------------|---|-----------------------|

|           |               |        |  |  |  |  |  |  |  |  |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|
| 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                  | 19.3 | 20.3 | 19.6 | 20.6 | 21.0               | 19.3 | 20.3 | 19.6 | 20.6 | 21.0 |
|                              | 3H                  | 19.7 | 20.7 | 20.1 | 21.0 | 21.4               | 19.7 | 20.7 | 20.1 | 21.0 | 21.4 |
|                              | 4H                  | 20.0 | 20.8 | 20.4 | 21.2 | 21.5               | 20.0 | 20.8 | 20.4 | 21.2 | 21.5 |
|                              | 6H                  | 20.1 | 20.9 | 20.6 | 21.2 | 21.6               | 20.1 | 20.9 | 20.6 | 21.2 | 21.6 |
|                              | 8H                  | 20.3 | 20.8 | 20.7 | 21.2 | 21.6               | 20.3 | 20.8 | 20.7 | 21.2 | 21.6 |
|                              | 12H                 | 20.3 | 20.8 | 20.7 | 21.2 | 21.6               | 20.3 | 20.8 | 20.7 | 21.2 | 21.6 |
| 4H                           | 2H                  | 19.4 | 20.2 | 19.8 | 20.6 | 21.0               | 19.4 | 20.2 | 19.8 | 20.6 | 21.0 |
|                              | 3H                  | 20.0 | 20.7 | 20.5 | 21.1 | 21.5               | 20.0 | 20.7 | 20.5 | 21.1 | 21.5 |
|                              | 4H                  | 20.3 | 20.9 | 20.7 | 21.3 | 21.8               | 20.3 | 20.9 | 20.7 | 21.3 | 21.8 |
|                              | 6H                  | 20.5 | 21.0 | 21.0 | 21.5 | 21.9               | 20.5 | 21.0 | 21.0 | 21.5 | 21.9 |
|                              | 8H                  | 20.6 | 21.0 | 21.1 | 21.5 | 22.0               | 20.6 | 21.0 | 21.1 | 21.5 | 22.0 |
|                              | 12H                 | 20.7 | 21.0 | 21.2 | 21.5 | 22.0               | 20.7 | 21.0 | 21.2 | 21.5 | 22.0 |
| 8H                           | 4H                  | 20.4 | 20.8 | 20.9 | 21.3 | 21.8               | 20.4 | 20.8 | 20.9 | 21.3 | 21.8 |
|                              | 6H                  | 20.6 | 21.0 | 21.1 | 21.5 | 22.0               | 20.6 | 21.0 | 21.1 | 21.5 | 22.0 |
|                              | 8H                  | 20.7 | 21.1 | 21.2 | 21.5 | 22.1               | 20.7 | 21.1 | 21.2 | 21.5 | 22.1 |
|                              | 12H                 | 20.8 | 21.1 | 21.4 | 21.6 | 22.1               | 20.8 | 21.1 | 21.4 | 21.6 | 22.1 |
| 12H                          | 4H                  | 20.4 | 20.7 | 20.9 | 21.2 | 21.7               | 20.4 | 20.7 | 20.9 | 21.2 | 21.7 |
|                              | 6H                  | 20.7 | 20.9 | 21.2 | 21.4 | 22.0               | 20.7 | 20.9 | 21.2 | 21.4 | 22.0 |
|                              | 8H                  | 20.8 | 21.0 | 21.3 | 21.5 | 22.1               | 20.8 | 21.0 | 21.3 | 21.5 | 22.1 |

|                 |                                 |                               |        |
|-----------------|---------------------------------|-------------------------------|--------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | D = 62 |
|-----------------|---------------------------------|-------------------------------|--------|

|          |                                |
|----------|--------------------------------|
| C-planes | 0°                             |
| $\gamma$ | Luminance in cd/m <sup>2</sup> |
| 45,0°    | 40585.9                        |
| 50,0°    | 28442.8                        |
| 55,0°    | 24127.5                        |
| 60,0°    | 22288.3                        |
| 65,0°    | 20337.8                        |
| 70,0°    | 17463.4                        |
| 75,0°    | 15479.2                        |
| 80,0°    | 13421.8                        |
| 85,0°    | 10029.1                        |

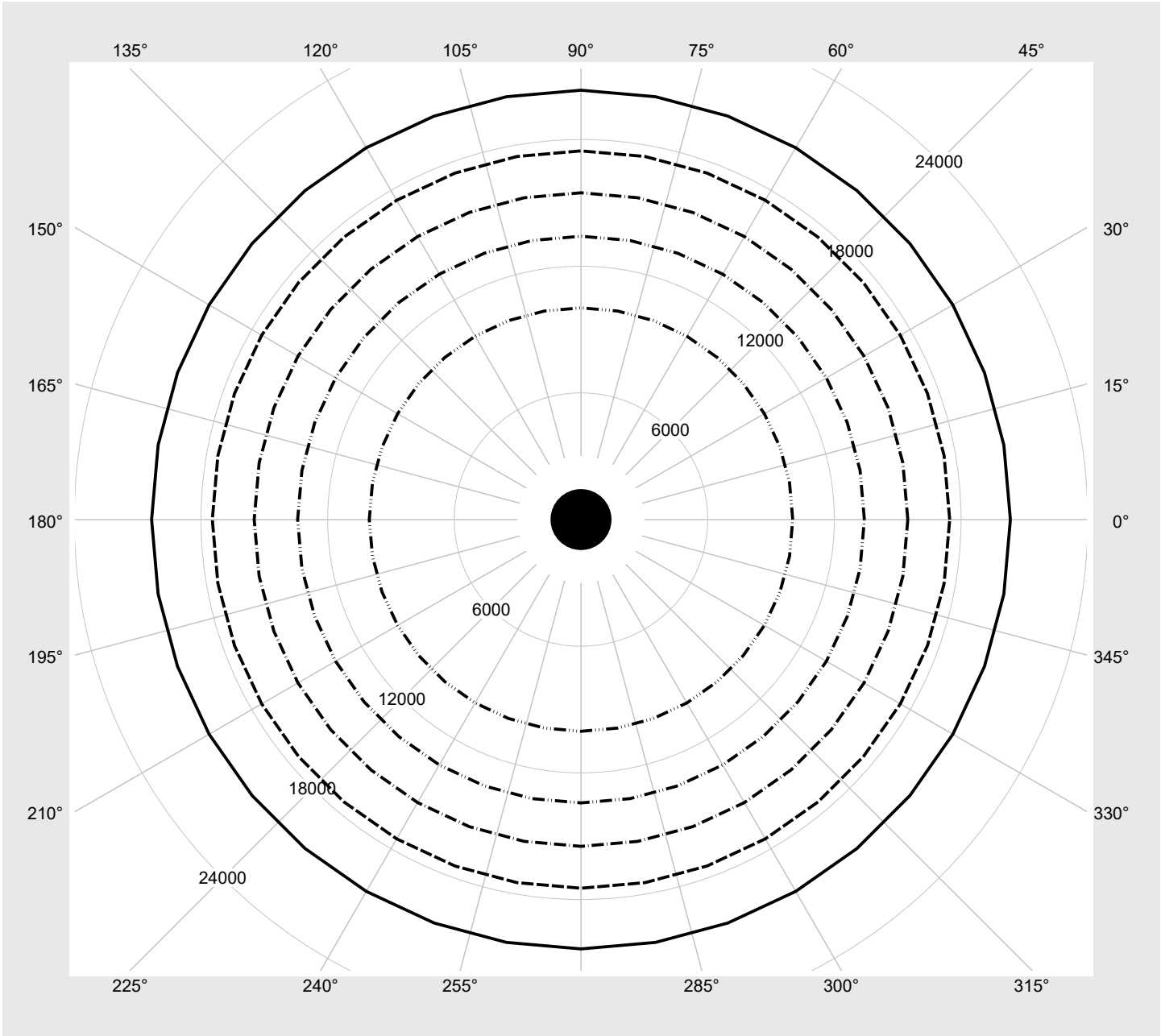
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|-----------------------------------|---|------------------------------|

**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°    
   $\gamma$  70°    
   $\gamma$  75°    
   $\gamma$  80°    
   $\gamma$  85°

**siteco**



### Photometric test report

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

|                         |                                 |               |
|-------------------------|---------------------------------|---------------|
| <b>Multilumen Table</b> | environmental temperature: 25°C | <b>sITeco</b> |
|-------------------------|---------------------------------|---------------|

| DIP-Step | Switch Setting |     |     |     | Luminous flux [lm] | Power consumption [W] |
|----------|----------------|-----|-----|-----|--------------------|-----------------------|
|          | 1              | 2   | 3   | 4   |                    |                       |
| 11       | ON             | OFF | ON  | ON  | 3620               | 28.0                  |
| 10       | ON             | OFF | ON  | OFF | 3400               | 25.9                  |
| 9        | ON             | OFF | OFF | ON  | 3170               | 23.7                  |
| 8        | ON             | OFF | OFF | OFF | 2930               | 21.6                  |
| 7        | OFF            | ON  | ON  | ON  | 2690               | 19.8                  |
| 6        | OFF            | ON  | ON  | OFF | 2440               | 17.7                  |
| 5        | OFF            | ON  | OFF | ON  | 2190               | 15.6                  |
| 4        | OFF            | ON  | OFF | OFF | 1930               | 13.8                  |
| 3        | OFF            | OFF | ON  | ON  | 1670               | 11.7                  |
| 2        | OFF            | OFF | ON  | OFF | 1400               | 9.9                   |
| 1        | OFF            | OFF | OFF | ON  | 1130               | 8.1                   |
| 0        | OFF            | OFF | OFF | OFF | 850                | 6.2                   |