
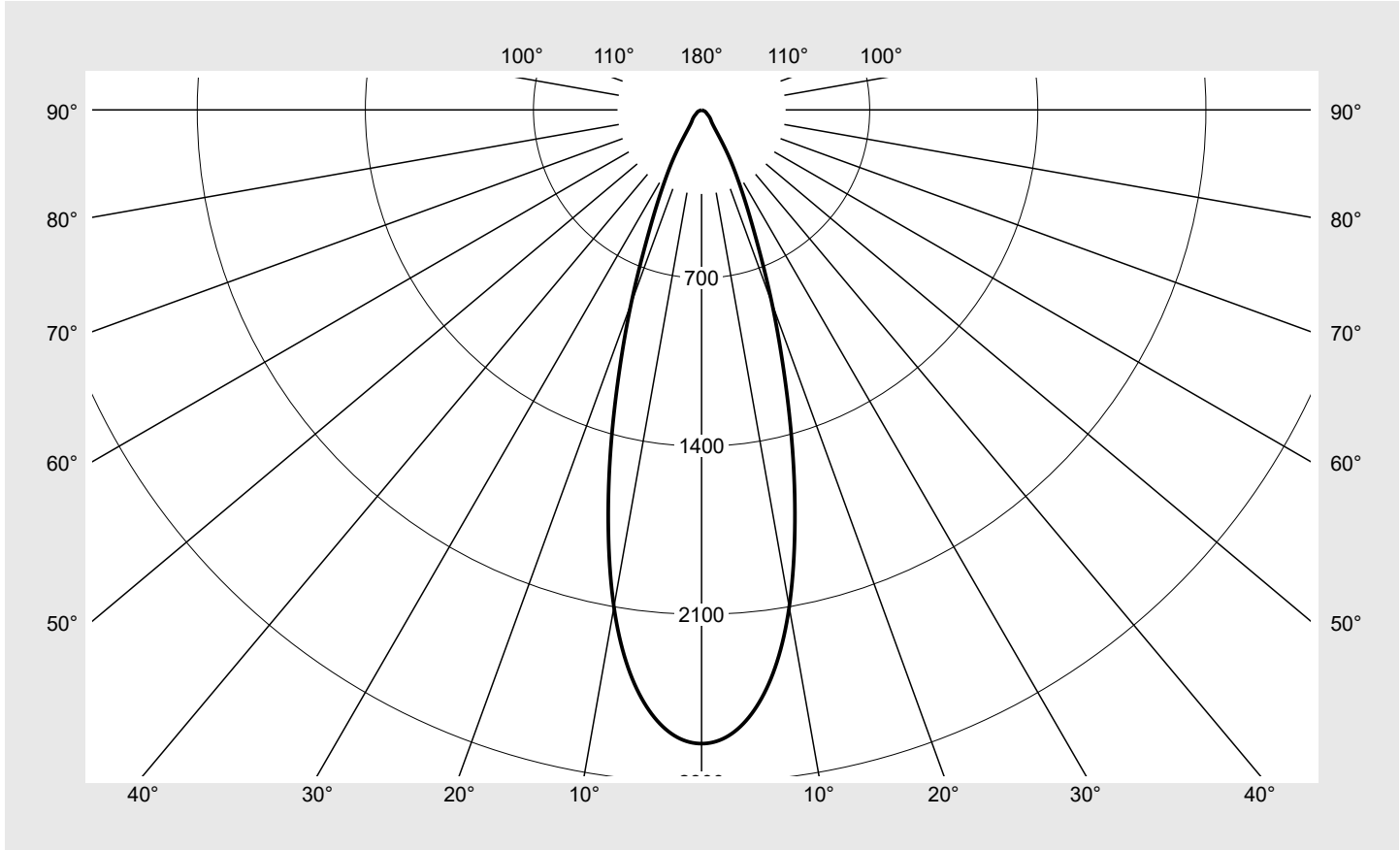


# Photometric test report

|  |   |  |
|--|---|--|
| <b>Family</b><br><b>Spot 21 Standard</b> | <b>Order number: 51SE13DA2CA2C</b><br><b>EAN: 4069025446923</b>   | <b>LP number</b><br><b>59938_13</b>              |
|  | <b>Version</b> housing, white, reflector, lens PMMA, wide distribution<br><b>Lamps</b> LED 2700 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 = 2110 lm<br>Power consumption = 15.6 W<br>Luminous efficacy = 135.3 lm/W | <b>serial documentation</b><br><b>11.05.2026</b> |



**Luminous intensity in cd/klm** C180-0 **Imax: 2638 cd/klm**



| Classifications |                                     |
|-----------------|-------------------------------------|
| DIN 5040        | A 8 0                               |
| CIE             | N1=92 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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|-----------------------------------|---|------------------------------|

**sit**eco

|   |                                   |
|---|-----------------------------------|
| <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°     | 2638.3                       | 3.9      | 3.9                     |
| 2,5°     | 2607.2                       | 31.2     | 35.1                    |
| 5,0°     | 2509.4                       | 60.0     | 95.1                    |
| 7,5°     | 2342.7                       | 83.8     | 178.9                   |
| 10,0°    | 2101.4                       | 100.0    | 278.9                   |
| 12,5°    | 1793.5                       | 106.4    | 385.4                   |
| 15,0°    | 1462.2                       | 103.7    | 489.1                   |
| 17,5°    | 1137.7                       | 93.8     | 582.9                   |
| 20,0°    | 857.0                        | 80.4     | 663.2                   |
| 22,5°    | 616.7                        | 64.7     | 727.9                   |
| 25,0°    | 449.1                        | 52.0     | 780.0                   |
| 27,5°    | 328.3                        | 41.6     | 821.5                   |
| 30,0°    | 236.7                        | 32.4     | 854.0                   |
| 32,5°    | 154.3                        | 22.7     | 876.7                   |
| 35,0°    | 101.7                        | 16.0     | 892.7                   |
| 37,5°    | 76.7                         | 12.8     | 905.5                   |
| 40,0°    | 64.2                         | 11.3     | 916.8                   |
| 42,5°    | 57.3                         | 10.6     | 927.4                   |
| 45,0°    | 51.1                         | 9.9      | 937.3                   |
| 47,5°    | 44.6                         | 9.0      | 946.3                   |
| 50,0°    | 37.9                         | 8.0      | 954.3                   |
| 52,5°    | 31.6                         | 6.9      | 961.2                   |
| 55,0°    | 26.8                         | 6.0      | 967.2                   |
| 57,5°    | 24.1                         | 5.6      | 972.7                   |
| 60,0°    | 21.5                         | 5.1      | 977.8                   |
| 62,5°    | 18.8                         | 4.6      | 982.4                   |
| 65,0°    | 15.7                         | 3.9      | 986.3                   |
| 67,5°    | 12.6                         | 3.2      | 989.5                   |
| 70,0°    | 10.1                         | 2.6      | 992.1                   |
| 72,5°    | 8.3                          | 2.2      | 994.3                   |
| 75,0°    | 6.8                          | 1.8      | 996.1                   |
| 77,5°    | 5.4                          | 1.5      | 997.5                   |
| 80,0°    | 4.1                          | 1.1      | 998.7                   |
| 82,5°    | 2.8                          | 0.8      | 999.4                   |
| 85,0°    | 1.6                          | 0.4      | 999.9                   |
| 87,5°    | 0.5                          | 0.1      | 1000.0                  |
| 90,0°    | 0.0                          | 0.0      | 1000.0                  |

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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                  | 20.0 | 21.1 | 20.4 | 21.4 | 21.7               | 20.0 | 21.1 | 20.4 | 21.4 | 21.7 |
|                              | 3H                  | 20.6 | 21.6 | 21.0 | 21.9 | 22.3               | 20.6 | 21.6 | 21.0 | 21.9 | 22.3 |
|                              | 4H                  | 20.9 | 21.7 | 21.3 | 22.1 | 22.5               | 20.9 | 21.7 | 21.3 | 22.1 | 22.5 |
|                              | 6H                  | 21.1 | 21.8 | 21.5 | 22.2 | 22.6               | 21.1 | 21.8 | 21.5 | 22.2 | 22.6 |
|                              | 8H                  | 21.2 | 21.8 | 21.7 | 22.2 | 22.6               | 21.2 | 21.8 | 21.7 | 22.2 | 22.6 |
|                              | 12H                 | 21.2 | 21.8 | 21.7 | 22.2 | 22.6               | 21.2 | 21.8 | 21.7 | 22.2 | 22.6 |
| 4H                           | 2H                  | 20.3 | 21.1 | 20.7 | 21.5 | 21.9               | 20.3 | 21.1 | 20.7 | 21.5 | 21.9 |
|                              | 3H                  | 21.0 | 21.7 | 21.5 | 22.1 | 22.6               | 21.0 | 21.7 | 21.5 | 22.1 | 22.6 |
|                              | 4H                  | 21.3 | 22.0 | 21.8 | 22.4 | 22.8               | 21.3 | 22.0 | 21.8 | 22.4 | 22.8 |
|                              | 6H                  | 21.6 | 22.1 | 22.1 | 22.6 | 23.0               | 21.6 | 22.1 | 22.1 | 22.6 | 23.0 |
|                              | 8H                  | 21.7 | 22.2 | 22.2 | 22.6 | 23.1               | 21.7 | 22.2 | 22.2 | 22.6 | 23.1 |
|                              | 12H                 | 21.8 | 22.1 | 22.3 | 22.6 | 23.1               | 21.8 | 22.1 | 22.3 | 22.6 | 23.1 |
| 8H                           | 4H                  | 21.4 | 21.9 | 21.9 | 22.3 | 22.8               | 21.4 | 21.9 | 21.9 | 22.3 | 22.8 |
|                              | 6H                  | 21.8 | 22.1 | 22.3 | 22.6 | 23.1               | 21.8 | 22.1 | 22.3 | 22.6 | 23.1 |
|                              | 8H                  | 21.9 | 22.2 | 22.4 | 22.7 | 23.2               | 21.9 | 22.2 | 22.4 | 22.7 | 23.2 |
|                              | 12H                 | 22.0 | 22.2 | 22.5 | 22.7 | 23.3               | 22.0 | 22.2 | 22.5 | 22.7 | 23.3 |
| 12H                          | 4H                  | 21.4 | 21.8 | 21.9 | 22.3 | 22.8               | 21.4 | 21.8 | 21.9 | 22.3 | 22.8 |
|                              | 6H                  | 21.8 | 22.1 | 22.3 | 22.6 | 23.1               | 21.8 | 22.1 | 22.3 | 22.6 | 23.1 |
|                              | 8H                  | 21.9 | 22.2 | 22.5 | 22.7 | 23.2               | 21.9 | 22.2 | 22.5 | 22.7 | 23.2 |

|                        |   |   |
|------------------------|---|---|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm: D = 62</b> |
|------------------------|---|---|

|                 |                                      |
|-----------------|--------------------------------------|
| <b>C-planes</b> | <b>0°</b>                            |
| $\gamma$        | <b>Luminance in cd/m<sup>2</sup></b> |
| 45,0°           | 50497.4                              |
| 50,0°           | 41252.5                              |
| 55,0°           | 32655.2                              |
| 60,0°           | 30024.3                              |
| 65,0°           | 25895.5                              |
| 70,0°           | 20716.2                              |
| 75,0°           | 18429.6                              |
| 80,0°           | 16561.8                              |
| 85,0°           | 12878.3                              |

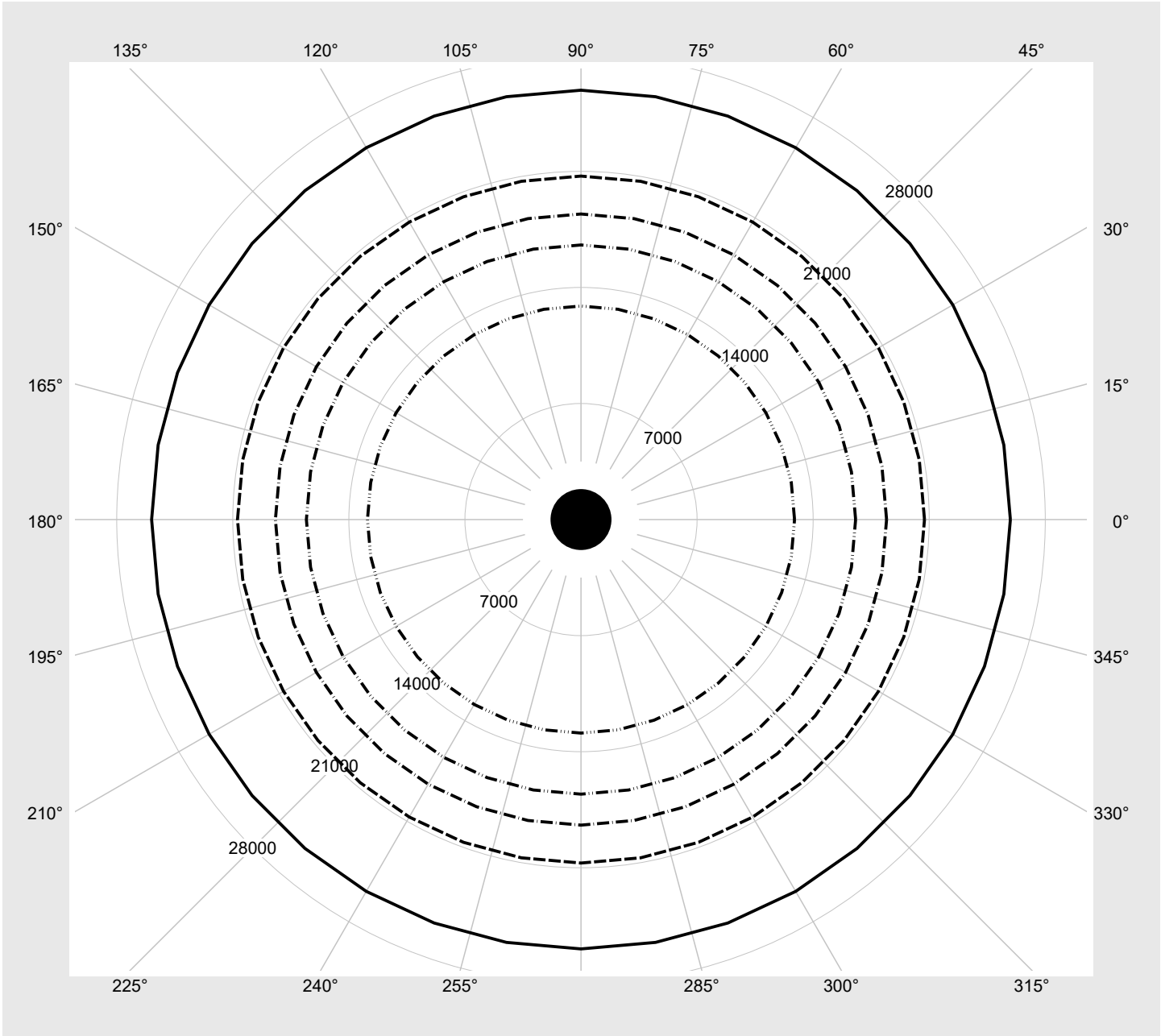
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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**



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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  | 3480               | 28.0                  |
| 10       | ON             | OFF | ON  | OFF | 3260               | 25.9                  |
| 9        | ON             | OFF | OFF | ON  | 3040               | 23.7                  |
| 8        | ON             | OFF | OFF | OFF | 2820               | 21.6                  |
| 7        | OFF            | ON  | ON  | ON  | 2590               | 19.8                  |
| 6        | OFF            | ON  | ON  | OFF | 2350               | 17.7                  |
| 5        | OFF            | ON  | OFF | ON  | 2110               | 15.6                  |
| 4        | OFF            | ON  | OFF | OFF | 1860               | 13.8                  |
| 3        | OFF            | OFF | ON  | ON  | 1610               | 11.7                  |
| 2        | OFF            | OFF | ON  | OFF | 1350               | 9.9                   |
| 1        | OFF            | OFF | OFF | ON  | 1090               | 8.1                   |
| 0        | OFF            | OFF | OFF | OFF | 820                | 6.2                   |