

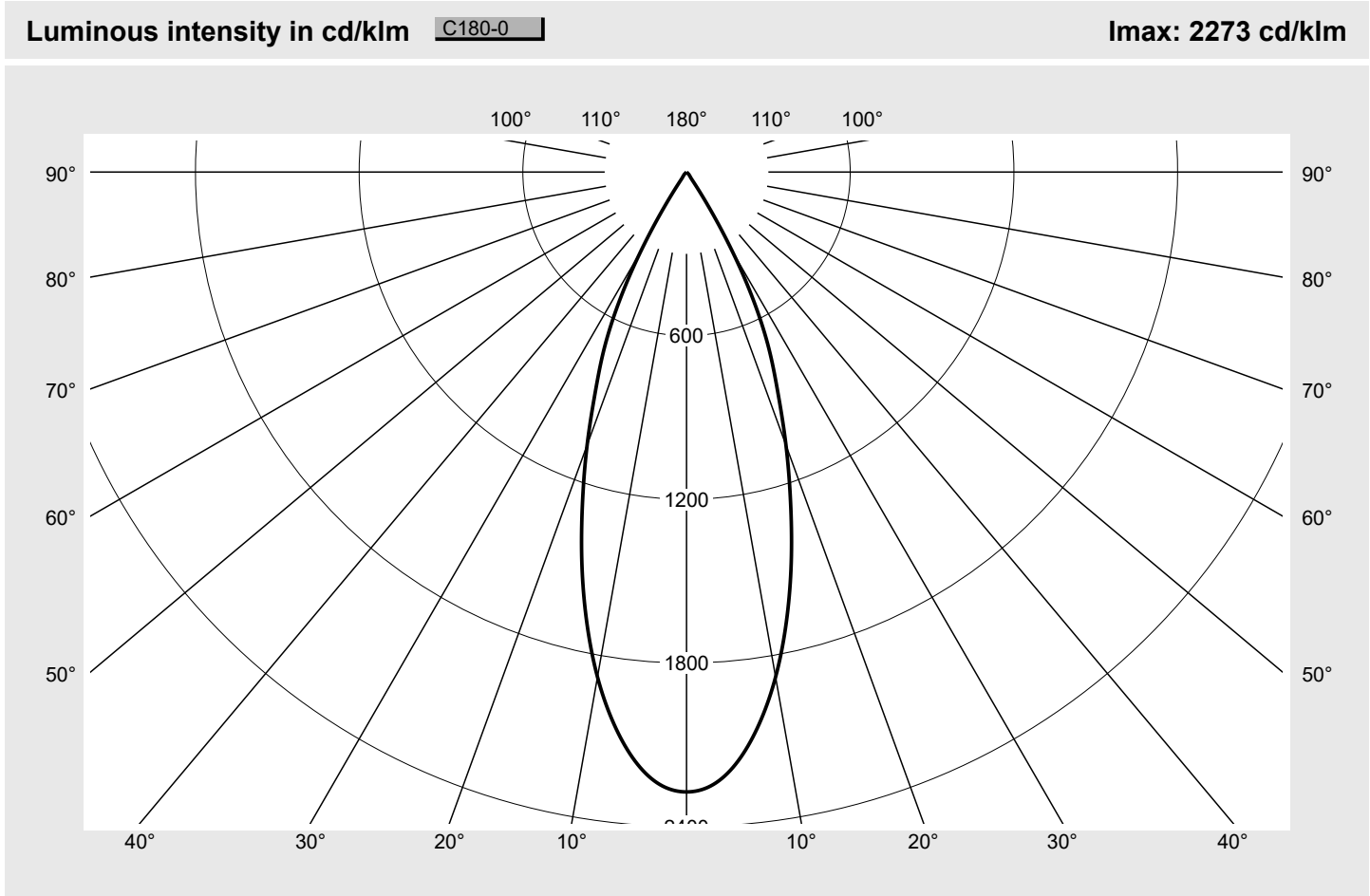


Photometric test report

| | | | | | | | | | | | | |
|---|--|-------------------------------------|--|--------------|-----------------------|--------------------|----------------|----------------|-----------------------------|---------------------|---|---|
| Family Spot 21 Standard | Order number: 51SE63MB11D2C EAN: 4069025448057 | LP number 59936_28 | | | | | | | | | | |
|  | <table border="0"> <tr> <td>Version</td> <td>housing, white aluminium, reflector, cover glass, transparent, medium distribution</td> </tr> <tr> <td>Lamps</td> <td>LED 4000 K CRI ≥ 90</td> </tr> <tr> <td>Controlgear</td> <td>ECG Multilumen</td> </tr> <tr> <td>Setting</td> <td>factory setting: DIP-Step=4</td> </tr> <tr> <td>Rated values</td> <td> Net luminous flux = 2900 lm Power consumption = 18.5 W Luminous efficacy = 156.8 lm/W </td> </tr> </table> | Version | housing, white aluminium, reflector, cover glass, transparent, medium distribution | Lamps | LED 4000 K CRI ≥ 90 | Controlgear | ECG Multilumen | Setting | factory setting: DIP-Step=4 | Rated values | Net luminous flux = 2900 lm Power consumption = 18.5 W Luminous efficacy = 156.8 lm/W | serial documentation 11.05.2026  |
| Version | housing, white aluminium, reflector, cover glass, transparent, medium distribution | | | | | | | | | | | |
| Lamps | LED 4000 K CRI ≥ 90 | | | | | | | | | | | |
| Controlgear | ECG Multilumen | | | | | | | | | | | |
| Setting | factory setting: DIP-Step=4 | | | | | | | | | | | |
| Rated values | Net luminous flux = 2900 lm Power consumption = 18.5 W Luminous efficacy = 156.8 lm/W | | | | | | | | | | | |



| Classifications | |
|-----------------|-------------------------------------|
| DIN 5040 | A 8 0 |
| CIE | N1=98 N2=99 N3=100 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 |

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| | |
|---|-----------------------------------|
| Table of values for luminous intensities | Maximum luminous intensity |
|---|-----------------------------------|

| C-planes | 0° | Phi-zone | Total Phi-zone |
|----------|------------------------------|-------------------------|----------------|
| γ | Luminous intensity in cd/klm | Luminous flux in lm/klm | |
| 0,0° | 2272.8 | 3.4 | 3.4 |
| 2,5° | 2247.7 | 26.9 | 30.3 |
| 5,0° | 2167.7 | 51.8 | 82.1 |
| 7,5° | 2040.8 | 73.0 | 155.1 |
| 10,0° | 1880.0 | 89.5 | 244.6 |
| 12,5° | 1690.1 | 100.3 | 344.9 |
| 15,0° | 1482.7 | 105.2 | 450.1 |
| 17,5° | 1267.9 | 104.5 | 554.6 |
| 20,0° | 1065.6 | 99.9 | 654.5 |
| 22,5° | 874.9 | 91.8 | 746.3 |
| 25,0° | 714.3 | 82.8 | 829.0 |
| 27,5° | 533.8 | 67.6 | 896.6 |
| 30,0° | 335.3 | 46.0 | 942.6 |
| 32,5° | 151.5 | 22.3 | 964.9 |
| 35,0° | 44.0 | 6.9 | 971.8 |
| 37,5° | 23.3 | 3.9 | 975.7 |
| 40,0° | 17.4 | 3.1 | 978.7 |
| 42,5° | 13.8 | 2.6 | 981.3 |
| 45,0° | 11.3 | 2.2 | 983.5 |
| 47,5° | 9.4 | 1.9 | 985.4 |
| 50,0° | 8.2 | 1.7 | 987.1 |
| 52,5° | 7.3 | 1.6 | 988.7 |
| 55,0° | 6.6 | 1.5 | 990.2 |
| 57,5° | 6.0 | 1.4 | 991.6 |
| 60,0° | 5.5 | 1.3 | 992.9 |
| 62,5° | 5.0 | 1.2 | 994.1 |
| 65,0° | 4.6 | 1.1 | 995.3 |
| 67,5° | 4.1 | 1.0 | 996.3 |
| 70,0° | 3.6 | 0.9 | 997.2 |
| 72,5° | 3.0 | 0.8 | 998.0 |
| 75,0° | 2.3 | 0.6 | 998.6 |
| 77,5° | 1.8 | 0.5 | 999.1 |
| 80,0° | 1.4 | 0.4 | 999.5 |
| 82,5° | 1.0 | 0.3 | 999.8 |
| 85,0° | 0.6 | 0.2 | 999.9 |
| 87,5° | 0.2 | 0.1 | 1000.0 |
| 90,0° | 0.0 | 0.0 | 1000.0 |

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| | | | | | | | | | | |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|
| 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 | 13.8 | 14.8 | 14.2 | 15.1 | 15.5 | 13.8 | 14.8 | 14.2 | 15.1 | 15.5 |
| | 3H | 14.1 | 15.0 | 14.5 | 15.3 | 15.7 | 14.1 | 15.0 | 14.5 | 15.3 | 15.7 |
| | 4H | 14.2 | 15.0 | 14.6 | 15.4 | 15.7 | 14.2 | 15.0 | 14.6 | 15.4 | 15.7 |
| | 6H | 14.3 | 15.0 | 14.7 | 15.4 | 15.8 | 14.3 | 15.0 | 14.7 | 15.4 | 15.8 |
| | 8H | 14.5 | 15.0 | 14.9 | 15.4 | 15.8 | 14.5 | 15.0 | 14.9 | 15.4 | 15.8 |
| | 12H | 14.5 | 14.9 | 14.9 | 15.3 | 15.7 | 14.5 | 14.9 | 14.9 | 15.3 | 15.7 |
| 4H | 2H | 13.8 | 14.6 | 14.2 | 14.9 | 15.3 | 13.8 | 14.6 | 14.2 | 14.9 | 15.3 |
| | 3H | 14.2 | 14.8 | 14.6 | 15.2 | 15.6 | 14.2 | 14.8 | 14.6 | 15.2 | 15.6 |
| | 4H | 14.3 | 14.9 | 14.8 | 15.3 | 15.8 | 14.3 | 14.9 | 14.8 | 15.3 | 15.8 |
| | 6H | 14.4 | 15.0 | 14.9 | 15.4 | 15.9 | 14.4 | 15.0 | 14.9 | 15.4 | 15.9 |
| | 8H | 14.5 | 15.0 | 15.0 | 15.4 | 15.9 | 14.5 | 15.0 | 15.0 | 15.4 | 15.9 |
| | 12H | 14.6 | 14.9 | 15.1 | 15.4 | 15.9 | 14.6 | 14.9 | 15.1 | 15.4 | 15.9 |
| 8H | 4H | 14.4 | 14.8 | 14.8 | 15.2 | 15.7 | 14.4 | 14.8 | 14.8 | 15.2 | 15.7 |
| | 6H | 14.6 | 14.9 | 15.1 | 15.4 | 15.9 | 14.6 | 14.9 | 15.1 | 15.4 | 15.9 |
| | 8H | 14.6 | 14.9 | 15.1 | 15.4 | 16.0 | 14.6 | 14.9 | 15.1 | 15.4 | 16.0 |
| | 12H | 14.7 | 14.9 | 15.2 | 15.4 | 16.0 | 14.7 | 14.9 | 15.2 | 15.4 | 16.0 |
| 12H | 4H | 14.4 | 14.7 | 14.9 | 15.1 | 15.6 | 14.4 | 14.7 | 14.9 | 15.1 | 15.6 |
| | 6H | 14.5 | 14.8 | 15.1 | 15.3 | 15.8 | 14.5 | 14.8 | 15.1 | 15.3 | 15.8 |
| | 8H | 14.6 | 14.9 | 15.2 | 15.4 | 15.9 | 14.6 | 14.9 | 15.2 | 15.4 | 15.9 |

| | | |
|-----------------|---------------------------------|--------------------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: D = 82 |
|-----------------|---------------------------------|--------------------------------------|

| | |
|----------|--------------------------------|
| C-planes | 0° |
| γ | Luminance in cd/m ² |
| 45,0° | 8802.7 |
| 50,0° | 7026.7 |
| 55,0° | 6337.9 |
| 60,0° | 6059.2 |
| 65,0° | 5995.3 |
| 70,0° | 5797.7 |
| 75,0° | 4894.8 |
| 80,0° | 4439.9 |
| 85,0° | 3793.0 |

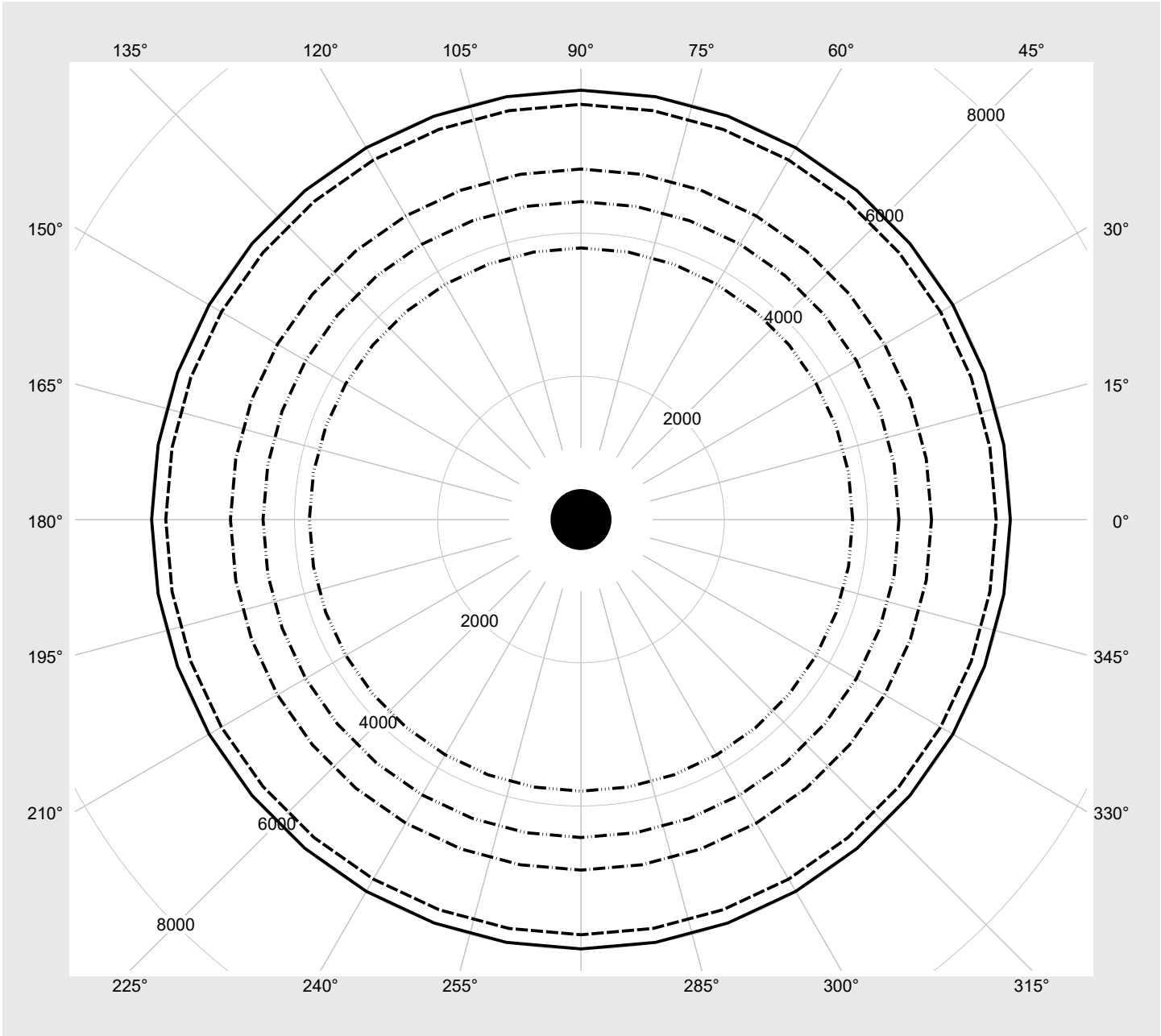
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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

| DIP-Step | Switch Setting | | | Luminous flux [lm] | Power consumption [W] |
|----------|----------------|-----|-----|--------------------|-----------------------|
| | 1 | 2 | 3 | | |
| 0 | OFF | OFF | OFF | 3910 | 26.5 |
| 1 | ON | OFF | OFF | 3670 | 24.5 |
| 2 | OFF | ON | OFF | 3420 | 22.5 |
| 3 | ON | ON | OFF | 3160 | 20.5 |
| 4 | OFF | OFF | ON | 2900 | 18.5 |
| 5 | ON | OFF | ON | 2630 | 16.6 |
| 6 | OFF | ON | ON | 2360 | 14.8 |
| 7 | ON | ON | ON | 2090 | 12.9 |