

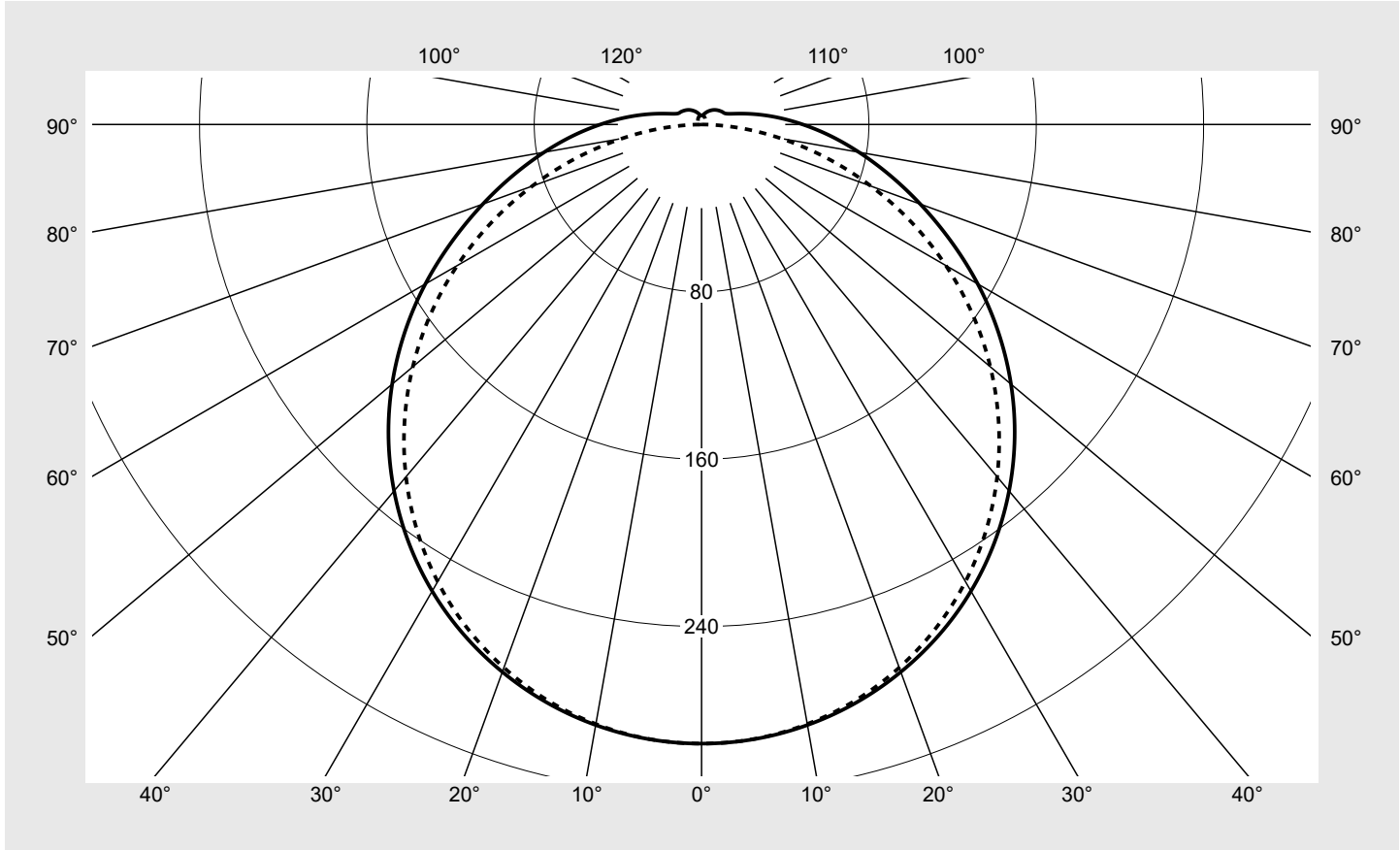


Photometric test report

| | | |
|--|--|---|
| Family Silhouette® 21 | Order number: 51LN12MKM40A EAN: 4058352011546 | LP number 59582_11 |
|  | Version surface-mounted luminaire, white, diffuser, PMMA, opal, with homogeneous illumination, extremely wide distribution, adjustable color temperature: 3000K 4000K 5000K Lamps LED 3000 K CRI ≥ 80 Controlgear ECG Multilumen Setting individual position: colour temperature 3000K Rated values Net luminous flux = 4640 lm Power consumption = 35.7 W Luminous efficacy = 130 lm/W | serial documentation 14.03.2024  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 296 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 3 1 |
| CIE | N1=43 N2=73 N3=92 N4=94 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 93.9% |
| ϕ_o | 6.1% |

| Measurement conditions |
|---------------------------|
| DIN EN 13032 and DIN 5032 |

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

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | | Luminous flux in lm/klm | |
| 0° | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 295.9 | 1.8 | 1.8 |
| 5° | 294.8 | 294.8 | 294.8 | 294.8 | 294.7 | 294.7 | 294.7 | 14.1 | 15.9 |
| 10° | 291.5 | 291.5 | 291.4 | 291.2 | 291.1 | 291.0 | 291.0 | 27.7 | 43.6 |
| 15° | 286.0 | 286.0 | 285.8 | 285.5 | 285.1 | 284.9 | 284.9 | 40.5 | 84.1 |
| 20° | 278.5 | 278.4 | 277.9 | 277.3 | 276.8 | 276.4 | 276.3 | 52.0 | 136.1 |
| 25° | 269.0 | 268.7 | 268.0 | 267.0 | 266.1 | 265.6 | 265.4 | 61.9 | 197.9 |
| 30° | 257.6 | 257.2 | 256.2 | 254.8 | 253.4 | 252.6 | 252.3 | 69.8 | 267.8 |
| 35° | 244.0 | 243.7 | 242.4 | 240.6 | 238.6 | 237.4 | 237.0 | 75.6 | 343.4 |
| 40° | 228.7 | 228.2 | 226.6 | 224.4 | 222.0 | 220.3 | 219.8 | 79.0 | 422.4 |
| 45° | 211.7 | 211.0 | 209.2 | 206.5 | 203.7 | 201.4 | 200.8 | 80.0 | 502.4 |
| 50° | 193.1 | 192.3 | 190.2 | 187.0 | 183.7 | 181.0 | 180.2 | 78.4 | 580.9 |
| 55° | 173.2 | 172.4 | 169.9 | 166.3 | 162.4 | 159.2 | 158.1 | 74.5 | 655.4 |
| 60° | 152.5 | 151.5 | 148.7 | 144.5 | 140.0 | 136.2 | 134.9 | 68.4 | 723.8 |
| 65° | 131.3 | 130.2 | 126.9 | 122.2 | 117.0 | 112.6 | 110.8 | 60.4 | 784.2 |
| 70° | 111.3 | 109.8 | 105.4 | 99.6 | 93.6 | 88.4 | 86.2 | 51.1 | 835.3 |
| 75° | 92.9 | 91.2 | 86.0 | 78.5 | 70.7 | 64.7 | 62.0 | 41.3 | 876.7 |
| 80° | 76.4 | 74.5 | 68.7 | 60.2 | 50.1 | 42.0 | 38.6 | 31.8 | 908.5 |
| 85° | 61.7 | 59.7 | 53.7 | 44.6 | 33.4 | 22.3 | 17.3 | 23.0 | 931.5 |
| 90° | 48.4 | 46.4 | 40.5 | 31.6 | 20.6 | 9.3 | 0.5 | 15.8 | 947.3 |
| 95° | 37.0 | 35.0 | 29.6 | 21.4 | 11.8 | 3.6 | 0.6 | 10.9 | 958.2 |
| 100° | 27.5 | 25.8 | 21.0 | 14.1 | 7.2 | 3.0 | 0.8 | 7.7 | 965.9 |
| 105° | 20.0 | 18.6 | 14.7 | 9.9 | 5.9 | 2.9 | 1.1 | 5.5 | 971.4 |
| 110° | 14.9 | 13.8 | 11.4 | 8.5 | 5.7 | 3.0 | 1.4 | 4.3 | 975.7 |
| 115° | 12.5 | 11.8 | 10.3 | 8.2 | 5.5 | 3.0 | 1.6 | 3.8 | 979.5 |
| 120° | 11.7 | 11.3 | 10.0 | 7.7 | 5.3 | 3.1 | 1.8 | 3.5 | 983.0 |
| 125° | 11.1 | 10.6 | 9.3 | 7.1 | 5.1 | 3.1 | 2.0 | 3.1 | 986.2 |
| 130° | 10.5 | 10.0 | 8.7 | 6.8 | 4.9 | 3.2 | 2.2 | 2.8 | 989.0 |
| 135° | 9.8 | 9.4 | 8.0 | 6.3 | 4.7 | 3.2 | 2.4 | 2.4 | 991.4 |
| 140° | 9.1 | 8.7 | 7.2 | 5.9 | 4.6 | 3.3 | 2.7 | 2.1 | 993.5 |
| 145° | 8.3 | 8.0 | 6.6 | 5.5 | 4.4 | 3.5 | 3.0 | 1.8 | 995.3 |
| 150° | 7.5 | 7.2 | 6.0 | 5.1 | 4.3 | 3.7 | 3.3 | 1.5 | 996.7 |
| 155° | 6.8 | 6.3 | 5.5 | 4.8 | 4.2 | 3.9 | 3.6 | 1.1 | 997.9 |
| 160° | 6.0 | 5.4 | 4.9 | 4.5 | 4.2 | 4.0 | 3.8 | 0.9 | 998.7 |
| 165° | 5.3 | 4.7 | 4.4 | 4.4 | 4.3 | 4.2 | 4.1 | 0.6 | 999.4 |
| 170° | 4.8 | 4.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 | 0.4 | 999.8 |
| 175° | 4.4 | 4.0 | 4.2 | 4.3 | 4.4 | 4.4 | 4.4 | 0.2 | 1000.0 |
| 180° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 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 | 18.9 | 20.6 | 19.2 | 20.9 | 21.2 | 18.9 | 20.6 | 19.3 | 21.0 | 21.3 |
| | 3H | 20.7 | 22.3 | 21.1 | 22.6 | 23.0 | 20.6 | 22.2 | 21.0 | 22.5 | 22.9 |
| | 4H | 21.6 | 23.1 | 22.0 | 23.4 | 23.8 | 21.3 | 22.8 | 21.7 | 23.1 | 23.5 |
| | 6H | 22.4 | 23.8 | 22.8 | 24.2 | 24.6 | 21.8 | 23.2 | 22.2 | 23.6 | 24.0 |
| | 8H | 22.9 | 24.2 | 23.3 | 24.5 | 24.9 | 22.1 | 23.4 | 22.5 | 23.8 | 24.2 |
| | 12H | 23.3 | 24.5 | 23.7 | 24.9 | 25.3 | 22.2 | 23.5 | 22.6 | 23.8 | 24.3 |
| 4H | 2H | 19.6 | 21.2 | 20.0 | 21.5 | 21.9 | 19.7 | 21.2 | 20.1 | 21.5 | 21.9 |
| | 3H | 21.7 | 23.0 | 22.1 | 23.4 | 23.8 | 21.5 | 22.8 | 22.0 | 23.2 | 23.6 |
| | 4H | 22.7 | 23.9 | 23.1 | 24.3 | 24.7 | 22.4 | 23.5 | 22.8 | 23.9 | 24.4 |
| | 6H | 23.7 | 24.7 | 24.2 | 25.2 | 25.6 | 23.0 | 24.1 | 23.5 | 24.5 | 25.0 |
| | 8H | 24.2 | 25.2 | 24.7 | 25.6 | 26.1 | 23.3 | 24.2 | 23.7 | 24.7 | 25.2 |
| | 12H | 24.7 | 25.6 | 25.2 | 26.0 | 26.5 | 23.5 | 24.3 | 24.0 | 24.8 | 25.3 |
| 8H | 4H | 23.1 | 24.1 | 23.5 | 24.5 | 25.0 | 22.8 | 23.8 | 23.3 | 24.2 | 24.7 |
| | 6H | 24.3 | 25.1 | 24.8 | 25.6 | 26.1 | 23.6 | 24.4 | 24.1 | 24.9 | 25.4 |
| | 8H | 24.9 | 25.6 | 25.4 | 26.1 | 26.6 | 24.0 | 24.7 | 24.5 | 25.2 | 25.7 |
| | 12H | 25.6 | 26.2 | 26.1 | 26.7 | 27.2 | 24.2 | 24.9 | 24.7 | 25.4 | 25.9 |
| 12H | 4H | 23.2 | 24.0 | 23.6 | 24.5 | 25.0 | 22.9 | 23.8 | 23.4 | 24.2 | 24.7 |
| | 6H | 24.4 | 25.1 | 24.9 | 25.6 | 26.1 | 23.8 | 24.5 | 24.3 | 25.0 | 25.5 |
| | 8H | 25.1 | 25.7 | 25.6 | 26.2 | 26.8 | 24.2 | 24.8 | 24.7 | 25.3 | 25.8 |

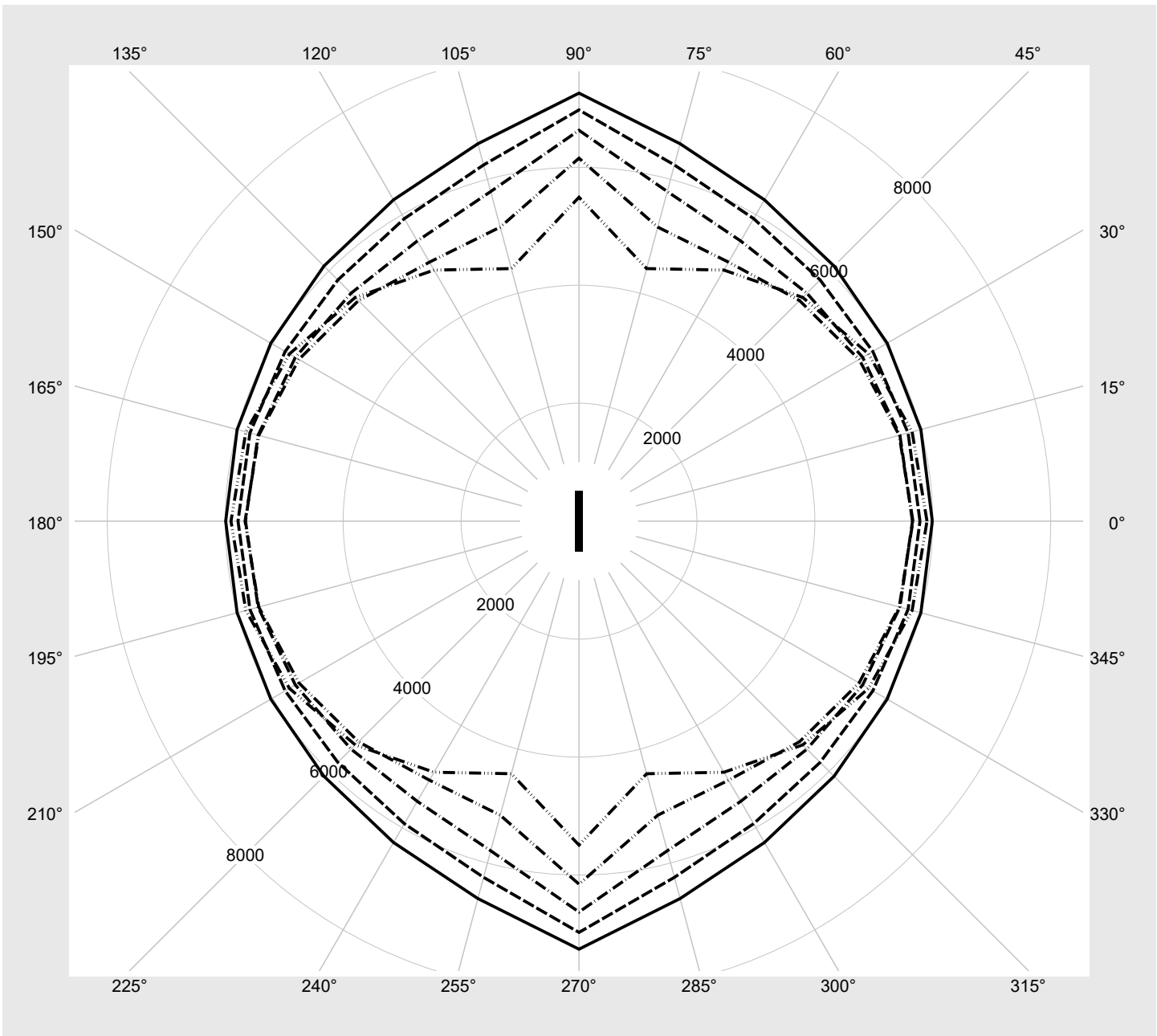
| | | | | | |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1133 | H(C0) = 30 | H(C180) = 30 |
| | | | B = 148 | H(C90) = 0 | H(C270) = 0 |

| C-planes | γ | Luminance in cd/m ² | | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| 45° | | 6887.3 | 6906.6 | 6963.9 | 7067.7 | 7237.5 | 7489.0 | 7858.4 | |
| 50° | | 6695.5 | 6713.2 | 6770.5 | 6876.6 | 7054.8 | 7332.2 | 7757.2 | |
| 55° | | 6481.4 | 6499.3 | 6554.0 | 6658.0 | 6843.3 | 7142.9 | 7628.7 | |
| 60° | | 6245.5 | 6263.1 | 6309.4 | 6406.2 | 6589.2 | 6909.0 | 7463.4 | |
| 65° | | 5992.5 | 6003.1 | 6035.4 | 6117.5 | 6291.3 | 6625.0 | 7257.4 | |
| 70° | | 5783.2 | 5778.2 | 5754.7 | 5783.8 | 5923.4 | 6252.7 | 6972.8 | |
| 75° | | 5656.1 | 5634.4 | 5555.2 | 5466.7 | 5485.7 | 5786.0 | 6627.1 | |
| 80° | | 5663.8 | 5622.5 | 5485.7 | 5289.5 | 5071.5 | 5161.7 | 6154.5 | |
| 85° | | 5902.5 | 5849.2 | 5671.2 | 5365.6 | 4915.8 | 4433.5 | 5492.3 | |

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



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

| DIP-Step | Switch Setting | | | Luminous flux [lm] | Power consumption [W] |
|----------|----------------|-----|-----|-----------------------|--------------------------|
| | 1 | 2 | 3 | | |
| 4 | OFF | OFF | ON | 2770 | 20.5 |
| 2 | OFF | ON | OFF | 3320 | 24.7 |
| 1 | ON | OFF | OFF | 3960 | 29.9 |
| 0 | OFF | OFF | OFF | 4640 | 35.7 |