

Photometric test report

Family
Batten 41

Order number: 51LP327KM20AN
EAN: 4058352705070

LP number
59484_2



Version diffuser optic, frosted, polycarbonate,
adjustable color temperature: 3000K | 4000K |
5000K, extremely wide distribution

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG

Setting individual position: colour temperature 3000K

Rated values Net luminous flux = 1800 lm
Power consumption = 16.0 W
Luminous efficacy = 112.5 lm/W

serial
documentation
26.08.2024

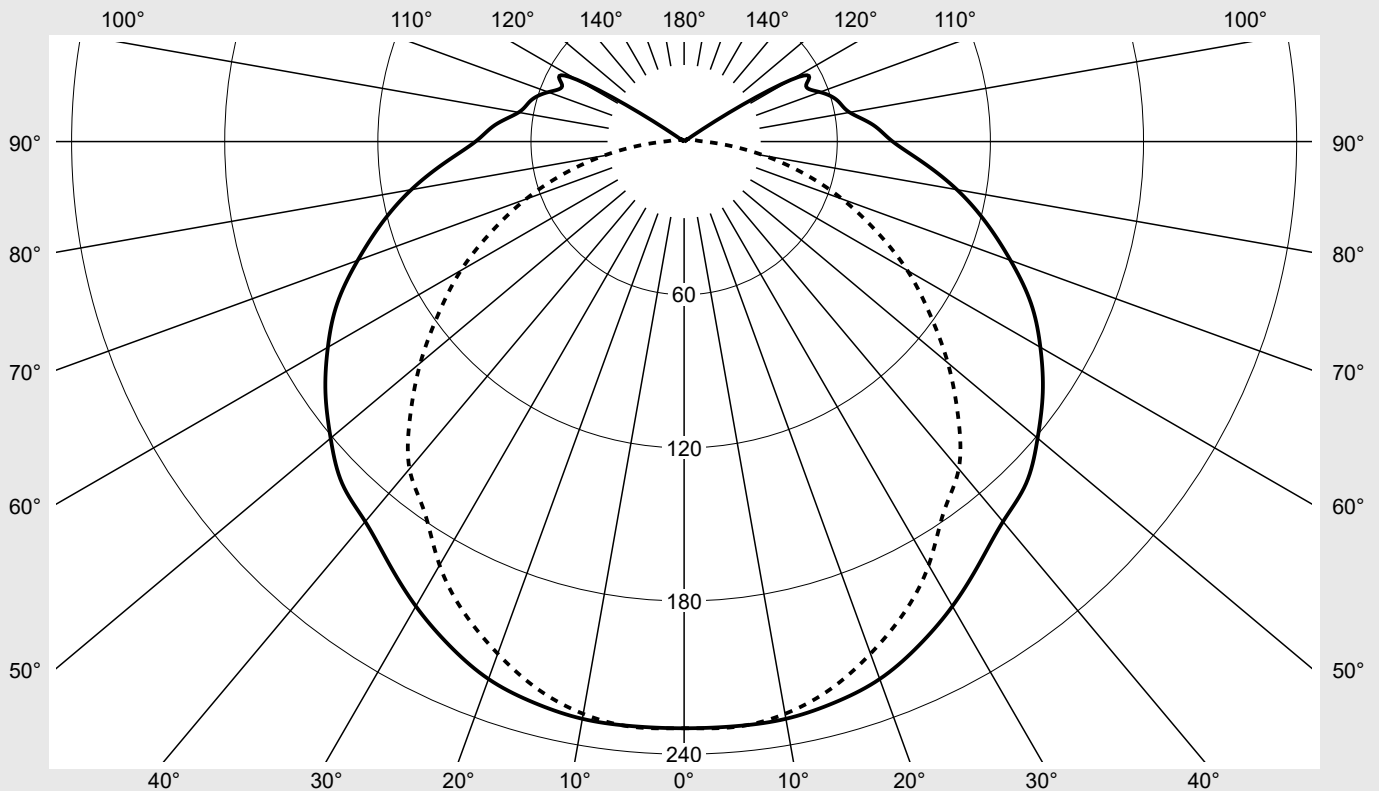
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 230 cd/klm



Classifications

DIN 5040 B 3 1
CIE N1=37 N2=66 N3=87
N4=87 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 86.8%
 ϕ_o 13.2%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

| | | |
|---|---|------------------------------------|
| Family Batten 41 | Order number: 51LP327KM20AN EAN: 4058352705070 | LP number 59484_2 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° | 165° | 180° |
|----------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| γ | Luminous intensity in cd/klm | | | | | | | | | | | | |
| 0° | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 |
| 5° | 229.9 | 229.9 | 229.8 | 229.6 | 229.4 | 229.8 | 230.2 | 229.8 | 229.4 | 229.6 | 229.8 | 229.9 | 229.9 |
| 10° | 229.7 | 229.0 | 228.3 | 227.9 | 227.4 | 227.5 | 227.7 | 227.5 | 227.4 | 227.9 | 228.3 | 229.0 | 229.7 |
| 15° | 227.6 | 227.6 | 227.7 | 225.6 | 223.6 | 222.8 | 222.0 | 222.8 | 223.6 | 225.6 | 227.7 | 227.6 | 227.6 |
| 20° | 224.1 | 223.7 | 223.2 | 219.8 | 216.4 | 214.9 | 213.5 | 214.9 | 216.4 | 219.8 | 223.2 | 223.7 | 224.1 |
| 25° | 217.8 | 217.7 | 217.6 | 213.6 | 209.6 | 206.7 | 203.8 | 206.7 | 209.6 | 213.6 | 217.6 | 217.7 | 217.8 |
| 30° | 210.2 | 209.6 | 209.0 | 204.6 | 200.1 | 195.9 | 191.6 | 195.9 | 200.1 | 204.6 | 209.0 | 209.6 | 210.2 |
| 35° | 201.7 | 201.5 | 201.4 | 197.3 | 193.2 | 185.2 | 177.3 | 185.2 | 193.2 | 197.3 | 201.4 | 201.5 | 201.7 |
| 40° | 194.4 | 193.3 | 192.2 | 186.6 | 181.1 | 174.2 | 167.4 | 174.2 | 181.1 | 186.6 | 192.2 | 193.3 | 194.4 |
| 45° | 189.5 | 186.3 | 183.2 | 175.8 | 168.3 | 160.1 | 151.8 | 160.1 | 168.3 | 175.8 | 183.2 | 186.3 | 189.5 |
| 50° | 180.8 | 176.0 | 171.3 | 163.0 | 154.7 | 144.8 | 134.9 | 144.8 | 154.7 | 163.0 | 171.3 | 176.0 | 180.8 |
| 55° | 171.6 | 169.3 | 167.0 | 153.6 | 140.2 | 128.8 | 117.4 | 128.8 | 140.2 | 153.6 | 167.0 | 169.3 | 171.6 |
| 60° | 161.2 | 158.5 | 155.9 | 141.2 | 126.5 | 113.7 | 101.0 | 113.7 | 126.5 | 141.2 | 155.9 | 158.5 | 161.2 |
| 65° | 150.0 | 146.9 | 143.9 | 127.9 | 111.9 | 97.5 | 83.1 | 97.5 | 111.9 | 127.9 | 143.9 | 146.9 | 150.0 |
| 70° | 136.1 | 133.4 | 130.6 | 113.2 | 95.8 | 80.9 | 66.0 | 80.9 | 95.8 | 113.2 | 130.6 | 133.4 | 136.1 |
| 75° | 122.4 | 119.6 | 116.9 | 98.8 | 80.7 | 64.7 | 48.8 | 64.7 | 80.7 | 98.8 | 116.9 | 119.6 | 122.4 |
| 80° | 108.6 | 105.2 | 101.9 | 83.8 | 65.8 | 49.0 | 32.1 | 49.0 | 65.8 | 83.8 | 101.9 | 105.2 | 108.6 |
| 85° | 94.0 | 91.1 | 88.1 | 70.0 | 51.8 | 34.6 | 17.5 | 34.6 | 51.8 | 70.0 | 88.1 | 91.1 | 94.0 |
| 90° | 81.7 | 79.1 | 76.5 | 59.1 | 41.8 | 24.8 | 7.9 | 24.8 | 41.8 | 59.1 | 76.5 | 79.1 | 81.7 |
| 95° | 74.4 | 70.8 | 67.2 | 52.2 | 37.2 | 21.1 | 4.9 | 21.1 | 37.2 | 52.2 | 67.2 | 70.8 | 74.4 |
| 100° | 65.8 | 61.9 | 57.9 | 42.8 | 27.7 | 15.7 | 3.6 | 15.7 | 27.7 | 42.8 | 57.9 | 61.9 | 65.8 |
| 105° | 62.2 | 58.3 | 54.5 | 40.5 | 26.6 | 14.5 | 2.4 | 14.5 | 26.6 | 40.5 | 54.5 | 58.3 | 62.2 |
| 110° | 56.6 | 53.8 | 51.1 | 39.2 | 27.4 | 14.5 | 1.6 | 14.5 | 27.4 | 39.2 | 51.1 | 53.8 | 56.6 |
| 115° | 52.8 | 50.1 | 47.3 | 36.0 | 24.7 | 13.2 | 1.6 | 13.2 | 24.7 | 36.0 | 47.3 | 50.1 | 52.8 |
| 120° | 48.4 | 46.4 | 44.3 | 33.2 | 22.1 | 11.8 | 1.6 | 11.8 | 22.1 | 33.2 | 44.3 | 46.4 | 48.4 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Photometric test report

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|---|---|------------------------------------|
| Family Batten 41 | Order number: 51LP327KM20AN EAN: 4058352705070 | LP number 59484_2 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° | 330° | 345° | Phi-zone | Total Phi-zone |
|----------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------|----------------|
| γ | Luminous intensity in cd/klm | | | | | | | | | | | Luminous flux in lm/klm | |
| 0° | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 229.9 | 1.4 | 1.4 |
| 5° | 229.9 | 229.8 | 229.6 | 229.4 | 229.8 | 230.2 | 229.8 | 229.4 | 229.6 | 229.8 | 229.9 | 11.0 | 12.4 |
| 10° | 229.0 | 228.3 | 227.9 | 227.4 | 227.5 | 227.7 | 227.5 | 227.4 | 227.9 | 228.3 | 229.0 | 21.7 | 34.1 |
| 15° | 227.6 | 227.7 | 225.6 | 223.6 | 222.8 | 222.0 | 222.8 | 223.6 | 225.6 | 227.7 | 227.6 | 32.0 | 66.0 |
| 20° | 223.7 | 223.2 | 219.8 | 216.4 | 214.9 | 213.5 | 214.9 | 216.4 | 219.8 | 223.2 | 223.7 | 41.1 | 107.2 |
| 25° | 217.7 | 217.6 | 213.6 | 209.6 | 206.7 | 203.8 | 206.7 | 209.6 | 213.6 | 217.6 | 217.7 | 49.3 | 156.4 |
| 30° | 209.6 | 209.0 | 204.6 | 200.1 | 195.9 | 191.6 | 195.9 | 200.1 | 204.6 | 209.0 | 209.6 | 55.7 | 212.2 |
| 35° | 201.5 | 201.4 | 197.3 | 193.2 | 185.2 | 177.3 | 185.2 | 193.2 | 197.3 | 201.4 | 201.5 | 61.2 | 273.4 |
| 40° | 193.3 | 192.2 | 186.6 | 181.1 | 174.2 | 167.4 | 174.2 | 181.1 | 186.6 | 192.2 | 193.3 | 65.1 | 338.5 |
| 45° | 186.3 | 183.2 | 175.8 | 168.3 | 160.1 | 151.8 | 160.1 | 168.3 | 175.8 | 183.2 | 186.3 | 67.5 | 405.9 |
| 50° | 176.0 | 171.3 | 163.0 | 154.7 | 144.8 | 134.9 | 144.8 | 154.7 | 163.0 | 171.3 | 176.0 | 67.7 | 473.6 |
| 55° | 169.3 | 167.0 | 153.6 | 140.2 | 128.8 | 117.4 | 128.8 | 140.2 | 153.6 | 167.0 | 169.3 | 67.6 | 541.2 |
| 60° | 158.5 | 155.9 | 141.2 | 126.5 | 113.7 | 101.0 | 113.7 | 126.5 | 141.2 | 155.9 | 158.5 | 65.4 | 606.7 |
| 65° | 146.9 | 143.9 | 127.9 | 111.9 | 97.5 | 83.1 | 97.5 | 111.9 | 127.9 | 143.9 | 146.9 | 61.6 | 668.3 |
| 70° | 133.4 | 130.6 | 113.2 | 95.8 | 80.9 | 66.0 | 80.9 | 95.8 | 113.2 | 130.6 | 133.4 | 56.2 | 724.5 |
| 75° | 119.6 | 116.9 | 98.8 | 80.7 | 64.7 | 48.8 | 64.7 | 80.7 | 98.8 | 116.9 | 119.6 | 50.0 | 774.5 |
| 80° | 105.2 | 101.9 | 83.8 | 65.8 | 49.0 | 32.1 | 49.0 | 65.8 | 83.8 | 101.9 | 105.2 | 42.8 | 817.3 |
| 85° | 91.1 | 88.1 | 70.0 | 51.8 | 34.6 | 17.5 | 34.6 | 51.8 | 70.0 | 88.1 | 91.1 | 35.6 | 853.0 |
| 90° | 79.1 | 76.5 | 59.1 | 41.8 | 24.8 | 7.9 | 24.8 | 41.8 | 59.1 | 76.5 | 79.1 | 29.8 | 882.8 |
| 95° | 70.8 | 67.2 | 52.2 | 37.2 | 21.1 | 4.9 | 21.1 | 37.2 | 52.2 | 67.2 | 70.8 | 26.2 | 909.0 |
| 100° | 61.9 | 57.9 | 42.8 | 27.7 | 15.7 | 3.6 | 15.7 | 27.7 | 42.8 | 57.9 | 61.9 | 21.6 | 930.6 |
| 105° | 58.3 | 54.5 | 40.5 | 26.6 | 14.5 | 2.4 | 14.5 | 26.6 | 40.5 | 54.5 | 58.3 | 20.0 | 950.6 |
| 110° | 53.8 | 51.1 | 39.2 | 27.4 | 14.5 | 1.6 | 14.5 | 27.4 | 39.2 | 51.1 | 53.8 | 18.5 | 969.1 |
| 115° | 50.1 | 47.3 | 36.0 | 24.7 | 13.2 | 1.6 | 13.2 | 24.7 | 36.0 | 47.3 | 50.1 | 16.4 | 985.5 |
| 120° | 46.4 | 44.3 | 33.2 | 22.1 | 11.8 | 1.6 | 11.8 | 22.1 | 33.2 | 44.3 | 46.4 | 14.5 | 1000.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |

Photometric test report

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| Family Batten 41 | Order number: 51LP327KM20AN EAN: 4058352705070 | LP number 59484_2 |
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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 | 19.9 | 21.6 | 20.3 | 22.0 | 22.4 | 19.5 | 21.2 | 19.9 | 21.6 | 22.1 |
| | 3H | 22.0 | 23.5 | 22.4 | 23.9 | 24.4 | 21.3 | 22.8 | 21.7 | 23.2 | 23.7 |
| | 4H | 22.9 | 24.3 | 23.4 | 24.8 | 25.3 | 21.9 | 23.4 | 22.4 | 23.9 | 24.4 |
| | 6H | 23.8 | 25.1 | 24.3 | 25.6 | 26.2 | 22.5 | 23.8 | 23.0 | 24.3 | 24.9 |
| | 8H | 24.3 | 25.5 | 24.8 | 26.1 | 26.6 | 22.8 | 24.1 | 23.3 | 24.6 | 25.1 |
| | 12H | 24.6 | 25.8 | 25.2 | 26.3 | 27.0 | 22.9 | 24.1 | 23.4 | 24.6 | 25.2 |
| 4H | 2H | 20.6 | 22.1 | 21.1 | 22.6 | 23.1 | 20.3 | 21.7 | 20.8 | 22.2 | 22.7 |
| | 3H | 22.9 | 24.1 | 23.4 | 24.7 | 25.2 | 22.2 | 23.4 | 22.7 | 23.9 | 24.5 |
| | 4H | 24.0 | 25.2 | 24.6 | 25.7 | 26.3 | 23.1 | 24.2 | 23.6 | 24.7 | 25.3 |
| | 6H | 25.1 | 26.1 | 25.7 | 26.6 | 27.3 | 23.8 | 24.8 | 24.3 | 25.3 | 26.0 |
| | 8H | 25.6 | 26.5 | 26.2 | 27.1 | 27.8 | 24.1 | 25.0 | 24.7 | 25.6 | 26.3 |
| | 12H | 26.1 | 26.9 | 26.7 | 27.5 | 28.2 | 24.3 | 25.1 | 24.9 | 25.7 | 26.4 |
| 8H | 4H | 24.4 | 25.4 | 25.0 | 26.0 | 26.6 | 23.6 | 24.5 | 24.2 | 25.1 | 25.7 |
| | 6H | 25.7 | 26.5 | 26.3 | 27.1 | 27.8 | 24.5 | 25.3 | 25.1 | 25.9 | 26.6 |
| | 8H | 26.4 | 27.1 | 27.0 | 27.7 | 28.4 | 24.9 | 25.6 | 25.5 | 26.2 | 27.0 |
| | 12H | 27.0 | 27.6 | 27.6 | 28.2 | 29.0 | 25.2 | 25.8 | 25.9 | 26.5 | 27.2 |
| 12H | 4H | 24.4 | 25.3 | 25.0 | 25.9 | 26.6 | 23.6 | 24.4 | 24.2 | 25.0 | 25.8 |
| | 6H | 25.8 | 26.5 | 26.4 | 27.1 | 27.8 | 24.6 | 25.3 | 25.3 | 26.0 | 26.7 |
| | 8H | 26.5 | 27.1 | 27.2 | 27.8 | 28.5 | 25.1 | 25.7 | 25.8 | 26.4 | 27.1 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1175 | H(C0) = 18 | H(C180) = 18 |
| | | | B = 25 | H(C90) = 0 | H(C270) = 0 |

| C-planes | 0° | 30° | 60° | 90° | 120° | 150° | 180° | 210° | 240° | 270° | 300° | 330° |
|----------|--------------------------------|--------|---------|---------|---------|--------|--------|--------|---------|---------|---------|--------|
| γ | Luminance in cd/m ² | | | | | | | | | | | |
| 45° | 9546.3 | 9776.2 | 10727.1 | 13150.4 | 10727.1 | 9776.2 | 9546.3 | 9776.2 | 10727.1 | 13150.4 | 10727.1 | 9776.2 |
| 50° | 9276.0 | 9366.8 | 10318.2 | 12856.9 | 10318.2 | 9366.8 | 9276.0 | 9366.8 | 10318.2 | 12856.9 | 10318.2 | 9366.8 |
| 55° | 9036.2 | 9438.8 | 9888.5 | 12544.3 | 9888.5 | 9438.8 | 9036.2 | 9438.8 | 9888.5 | 12544.3 | 9888.5 | 9438.8 |
| 60° | 8790.7 | 9185.6 | 9546.9 | 12379.1 | 9546.9 | 9185.6 | 8790.7 | 9185.6 | 9546.9 | 12379.1 | 9546.9 | 9185.6 |
| 65° | 8546.6 | 8928.6 | 9152.4 | 12044.7 | 9152.4 | 8928.6 | 8546.6 | 8928.6 | 9152.4 | 12044.7 | 9152.4 | 8928.6 |
| 70° | 8187.1 | 8625.6 | 8630.8 | 11828.0 | 8630.8 | 8625.6 | 8187.1 | 8625.6 | 8630.8 | 11828.0 | 8630.8 | 8625.6 |
| 75° | 7860.8 | 8315.3 | 8151.2 | 11548.7 | 8151.2 | 8315.3 | 7860.8 | 8315.3 | 8151.2 | 11548.7 | 8151.2 | 8315.3 |
| 80° | 7535.8 | 7923.6 | 7638.4 | 11339.0 | 7638.4 | 7923.6 | 7535.8 | 7923.6 | 7638.4 | 11339.0 | 7638.4 | 7923.6 |
| 85° | 7157.7 | 7624.6 | 7121.1 | 12273.5 | 7121.1 | 7624.6 | 7157.7 | 7624.6 | 7121.1 | 12273.5 | 7121.1 | 7624.6 |

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| Family Batten 41 | Order number: 51LP327KM20AN EAN: 4058352705070 | LP number 59484_2 |
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

