

Lichttechnischer Prüfbefund

Familie
Floodlight FL21 midi

Bestell-Nr.: 5XA7782F1K1A
EAN: 4058352854280

LP-Nummer
59305_17



| | |
|------------------------|--|
| Ausführung | Tragbügel |
| Optik | symmetrisch strahlend RS7 |
| Abdeckung | Einscheibensicherheitsglas (ESG) |
| Bestückung | LED 2200 K CRI ≥ 70 |
| Betriebsgerät | EVG SITECO iQ |
| Bemessungswerte | Nettolichtstrom = 29700 lm Systemleistung = 270.2 W Lichtausbeute = 109.9 lm/W |

Seriendokumentation
22.08.2023

siteco

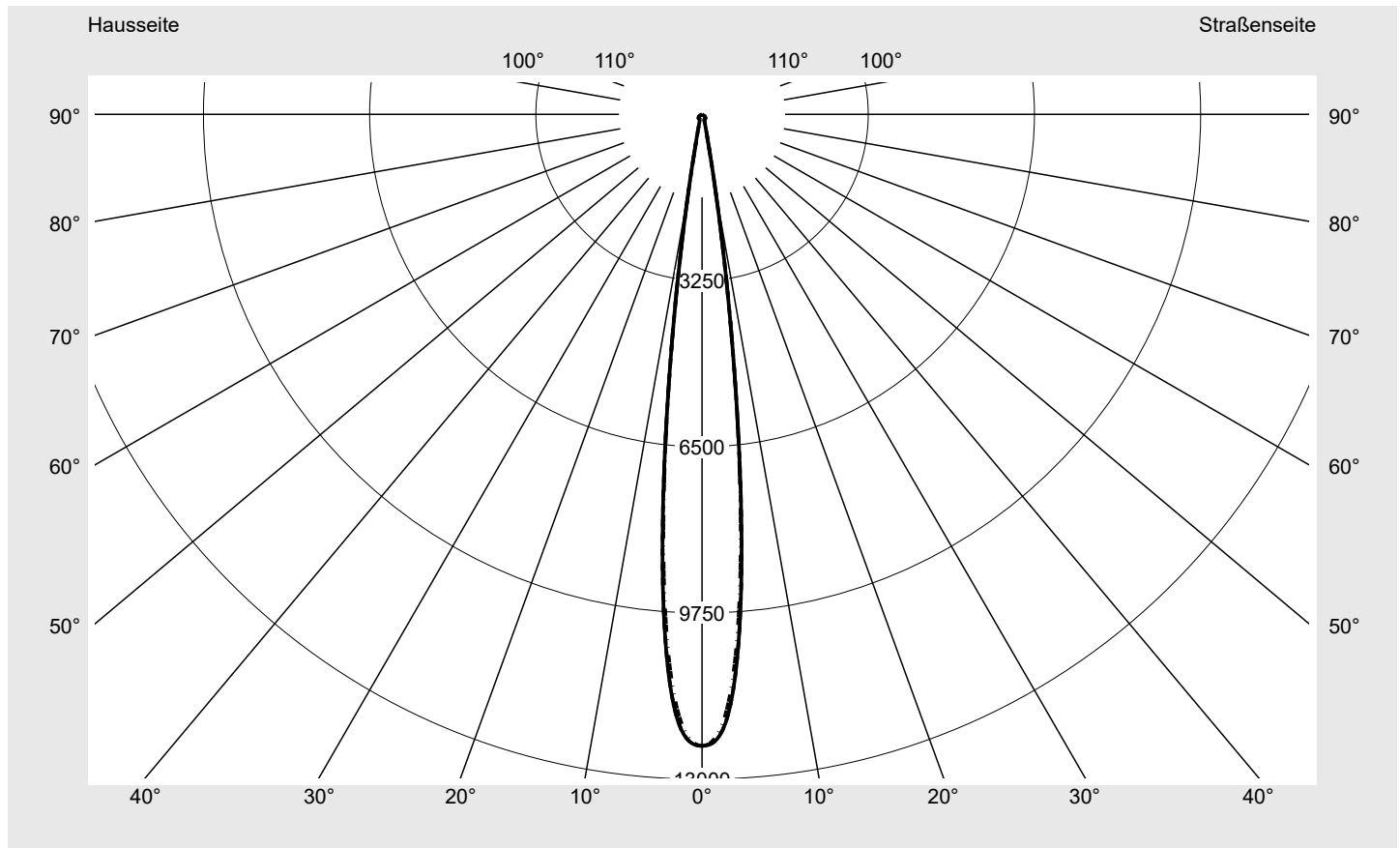
Lichtstärke in cd/klm

C180-0

C185-5

C270-90

Imax: 12348 cd/klm



Leuchtenbetriebswirkungsgrade

| | |
|----------------|--------|
| Eta | 100.0% |
| Eta 0° - 90° | 100.0% |
| Eta 90° - 180° | 0.0% |

Lichtstärkeklasse nach EN13201-2

| | |
|-----------|------|
| Klasse: | G6 |
| Imax 70° | 33.3 |
| Imax 80° | 10.4 |
| Imax 90° | 0.0 |
| Imax >90° | 0.0 |
| Imax >95° | 0.0 |

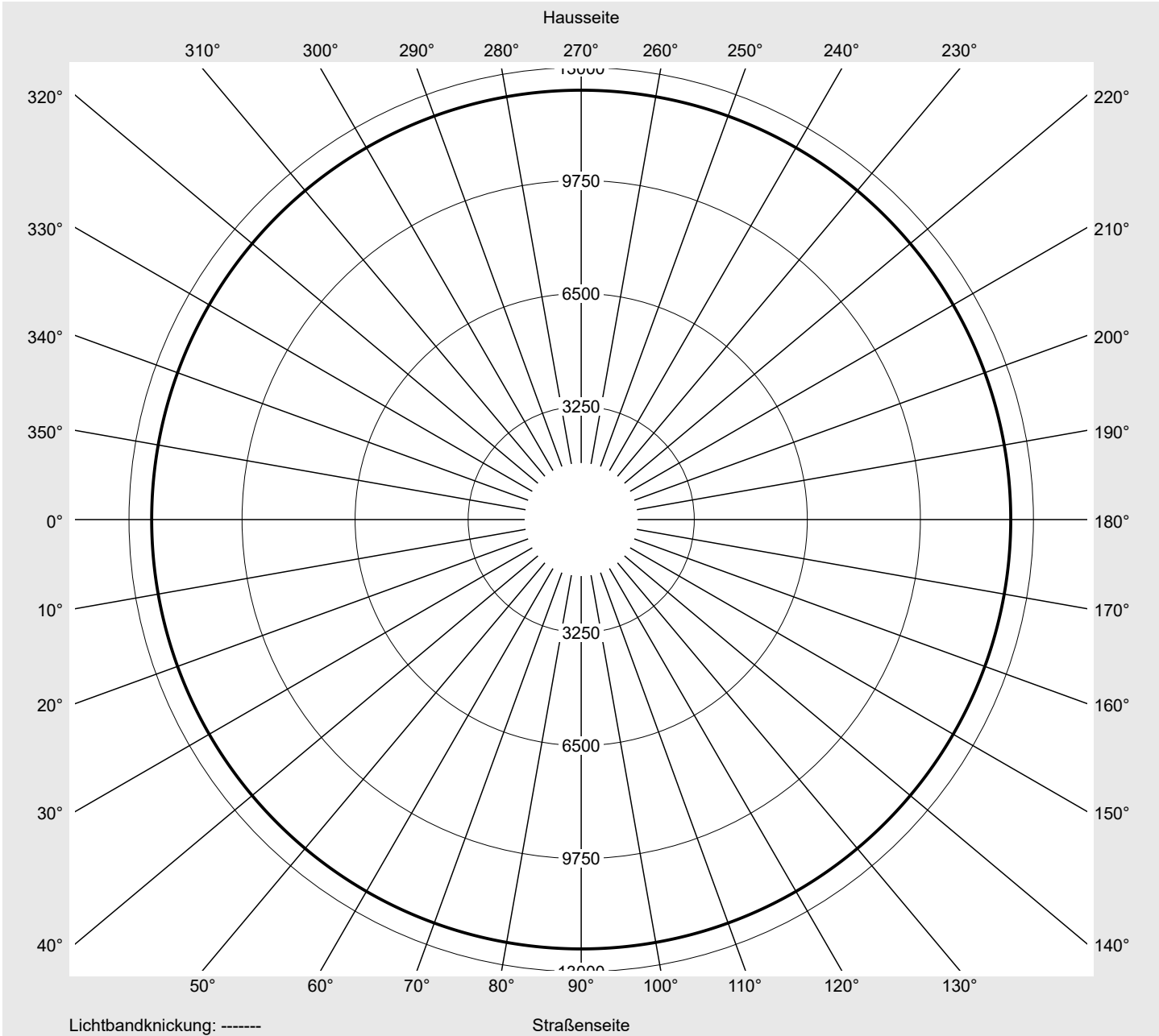
Messbedingungen

DIN EN 13032 und DIN 5032

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Kegelmantelkurven in cd/klm KMK 0° siteco



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| Familie Floodlight FL21 midi | Bestell-Nr.: 5XA7782F1K1A EAN: 4058352854280 | LP-Nummer 59305_17 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
| siteco | | |

| C- Ebenen | 0° 180° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | | 175° 185° 355° | 170° 190° 350° | 165° 195° 345° | 160° 200° 340° | 155° 205° 335° | 150° 210° 330° | 145° 215° 325° | 140° 220° 320° | 135° 225° 315° |
| Lichtstärke in cd/klm | | | | | | | | | | |
| γ | | | | | | | | | | |
| 0,0° | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 |
| 2,5° | 11740.3 | 11736.4 | 11732.4 | 11728.5 | 11741.1 | 11753.7 | 11766.3 | 11748.6 | 11730.9 | 11713.2 |
| 5,0° | 8862.5 | 8858.5 | 8854.4 | 8850.4 | 8960.8 | 9071.1 | 9181.5 | 9162.5 | 9143.5 | 9124.5 |
| 7,5° | 4523.8 | 4521.3 | 4518.8 | 4516.3 | 4592.9 | 4669.4 | 4745.9 | 4754.6 | 4763.3 | 4771.9 |
| 10,0° | 1521.6 | 1523.6 | 1525.5 | 1527.4 | 1539.1 | 1550.7 | 1562.3 | 1563.7 | 1565.2 | 1566.7 |
| 12,5° | 537.5 | 527.2 | 516.9 | 506.6 | 509.7 | 512.9 | 516.0 | 503.2 | 490.5 | 477.7 |
| 15,0° | 276.8 | 276.2 | 275.7 | 275.1 | 276.5 | 277.9 | 279.3 | 278.0 | 276.8 | 275.5 |
| 17,5° | 185.9 | 185.4 | 185.0 | 184.5 | 185.1 | 185.7 | 186.2 | 185.7 | 185.2 | 184.7 |
| 20,0° | 134.4 | 134.2 | 134.1 | 134.0 | 134.7 | 135.3 | 136.0 | 135.8 | 135.6 | 135.4 |
| 22,5° | 118.4 | 118.3 | 118.2 | 118.2 | 118.5 | 118.9 | 119.3 | 119.6 | 119.9 | 120.2 |
| 25,0° | 109.6 | 109.3 | 109.1 | 108.8 | 108.9 | 109.0 | 109.1 | 109.4 | 109.8 | 110.1 |
| 27,5° | 104.3 | 104.0 | 103.7 | 103.4 | 103.2 | 103.0 | 102.9 | 103.0 | 103.2 | 103.4 |
| 30,0° | 100.4 | 100.2 | 100.0 | 99.8 | 99.5 | 99.2 | 98.8 | 98.8 | 98.8 | 98.8 |
| 32,5° | 99.1 | 98.7 | 98.4 | 98.0 | 97.7 | 97.4 | 97.1 | 96.9 | 96.7 | 96.6 |
| 35,0° | 102.2 | 101.9 | 101.6 | 101.3 | 101.1 | 100.9 | 100.7 | 100.5 | 100.3 | 100.1 |
| 37,5° | 105.3 | 105.0 | 104.7 | 104.4 | 104.6 | 104.8 | 104.9 | 105.0 | 105.0 | 105.1 |
| 40,0° | 102.9 | 102.4 | 102.0 | 101.6 | 102.2 | 102.8 | 103.4 | 103.6 | 103.8 | 104.0 |
| 42,5° | 99.8 | 99.0 | 98.2 | 97.3 | 98.1 | 98.8 | 99.6 | 99.9 | 100.1 | 100.4 |
| 45,0° | 96.2 | 95.3 | 94.3 | 93.3 | 94.0 | 94.7 | 95.4 | 95.9 | 96.3 | 96.7 |
| 47,5° | 90.7 | 89.6 | 88.5 | 87.5 | 88.3 | 89.1 | 89.9 | 90.4 | 90.9 | 91.4 |
| 50,0° | 85.0 | 83.5 | 82.0 | 80.5 | 81.6 | 82.7 | 83.8 | 84.3 | 84.9 | 85.4 |
| 52,5° | 79.1 | 77.5 | 75.8 | 74.1 | 75.4 | 76.6 | 77.9 | 78.3 | 78.6 | 79.0 |
| 55,0° | 72.8 | 71.3 | 69.8 | 68.4 | 69.7 | 71.0 | 72.3 | 72.7 | 73.1 | 73.4 |
| 57,5° | 66.1 | 64.6 | 63.1 | 61.6 | 63.0 | 64.4 | 65.8 | 66.1 | 66.5 | 66.8 |
| 60,0° | 59.6 | 57.9 | 56.1 | 54.3 | 55.5 | 56.7 | 57.9 | 58.5 | 59.1 | 59.7 |
| 62,5° | 52.9 | 51.3 | 49.6 | 48.0 | 48.8 | 49.6 | 50.4 | 51.3 | 52.2 | 53.0 |
| 65,0° | 45.4 | 44.2 | 43.0 | 41.8 | 42.6 | 43.3 | 44.1 | 44.7 | 45.3 | 45.9 |
| 67,5° | 38.3 | 37.5 | 36.8 | 36.0 | 36.7 | 37.5 | 38.2 | 38.7 | 39.2 | 39.6 |
| 70,0° | 31.9 | 31.3 | 30.8 | 30.3 | 31.0 | 31.7 | 32.4 | 32.7 | 33.0 | 33.3 |
| 72,5° | 25.9 | 25.6 | 25.3 | 25.0 | 25.5 | 26.0 | 26.5 | 26.7 | 26.9 | 27.1 |
| 75,0° | 20.9 | 20.5 | 20.1 | 19.6 | 20.0 | 20.4 | 20.8 | 20.9 | 21.0 | 21.1 |
| 77,5° | 15.9 | 15.4 | 14.9 | 14.5 | 14.8 | 15.1 | 15.4 | 15.4 | 15.5 | 15.6 |
| 80,0° | 10.4 | 10.2 | 9.9 | 9.7 | 9.9 | 10.0 | 10.1 | 10.1 | 10.0 | 9.9 |
| 82,5° | 5.7 | 5.6 | 5.5 | 5.4 | 5.5 | 5.5 | 5.6 | 5.5 | 5.4 | 5.4 |
| 85,0° | 2.4 | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 | 2.1 |
| 87,5° | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 90,0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
| | | siteco |

| C- Ebenen | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | Phi-Zone | Summe Phi-Zone | |
|--------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------------------|--------|
| | 130° | 125° | 120° | 115° | 110° | 105° | 100° | 95° | | | | |
| | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | | | | |
| | 310° | 305° | 300° | 295° | 290° | 285° | 280° | 275° | | | | |
| γ | Lichtstärke in cd/klm | | | | | | | | | | Lichtstrom in lm/klm | |
| 0,0° | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 12348.1 | 18.5 | 18.5 |
| 2,5° | 11704.4 | 11695.7 | 11686.9 | 11645.2 | 11603.6 | 11561.9 | 11563.0 | 11564.1 | 11565.1 | 11565.1 | 139.7 | 158.2 |
| 5,0° | 9110.0 | 9095.6 | 9081.1 | 8940.8 | 8800.6 | 8660.3 | 8659.8 | 8659.4 | 8658.9 | 8658.9 | 213.7 | 371.9 |
| 7,5° | 4772.8 | 4773.6 | 4774.4 | 4699.1 | 4623.7 | 4548.4 | 4547.8 | 4547.2 | 4546.6 | 4546.6 | 166.3 | 538.2 |
| 10,0° | 1560.2 | 1553.8 | 1547.4 | 1523.7 | 1500.0 | 1476.3 | 1480.8 | 1485.4 | 1490.0 | 1490.0 | 72.9 | 611.1 |
| 12,5° | 479.8 | 481.9 | 484.0 | 474.2 | 464.5 | 454.7 | 460.6 | 466.5 | 472.4 | 472.4 | 29.1 | 640.2 |
| 15,0° | 275.0 | 274.5 | 274.0 | 272.5 | 271.0 | 269.5 | 269.7 | 270.0 | 270.3 | 270.3 | 19.5 | 659.7 |
| 17,5° | 184.6 | 184.6 | 184.5 | 183.4 | 182.3 | 181.2 | 181.7 | 182.1 | 182.6 | 182.6 | 15.2 | 674.8 |
| 20,0° | 136.0 | 136.6 | 137.2 | 136.7 | 136.3 | 135.8 | 136.1 | 136.4 | 136.7 | 136.7 | 12.7 | 687.6 |
| 22,5° | 120.6 | 121.0 | 121.3 | 121.0 | 120.7 | 120.4 | 120.4 | 120.5 | 120.6 | 120.6 | 12.6 | 700.1 |
| 25,0° | 110.3 | 110.5 | 110.7 | 110.6 | 110.5 | 110.4 | 110.4 | 110.4 | 110.5 | 110.5 | 12.7 | 712.9 |
| 27,5° | 103.5 | 103.5 | 103.6 | 103.7 | 103.7 | 103.8 | 103.9 | 103.9 | 104.0 | 104.0 | 13.1 | 726.0 |
| 30,0° | 98.9 | 99.0 | 99.0 | 99.2 | 99.4 | 99.6 | 99.5 | 99.4 | 99.3 | 99.3 | 13.6 | 739.6 |
| 32,5° | 96.5 | 96.5 | 96.5 | 96.5 | 96.6 | 96.6 | 96.7 | 96.9 | 97.0 | 97.0 | 14.3 | 753.9 |
| 35,0° | 99.9 | 99.8 | 99.7 | 99.7 | 99.7 | 99.7 | 99.9 | 100.0 | 100.2 | 100.2 | 15.8 | 769.7 |
| 37,5° | 104.9 | 104.6 | 104.4 | 104.2 | 104.1 | 103.9 | 104.1 | 104.3 | 104.5 | 104.5 | 17.5 | 787.1 |
| 40,0° | 103.6 | 103.3 | 102.9 | 102.3 | 101.7 | 101.1 | 101.5 | 101.9 | 102.3 | 102.3 | 18.1 | 805.2 |
| 42,5° | 100.0 | 99.6 | 99.2 | 98.5 | 97.9 | 97.2 | 98.0 | 98.8 | 99.6 | 99.6 | 18.3 | 823.5 |
| 45,0° | 96.2 | 95.7 | 95.2 | 94.7 | 94.1 | 93.6 | 94.4 | 95.1 | 95.9 | 95.9 | 18.4 | 842.0 |
| 47,5° | 90.8 | 90.2 | 89.6 | 88.9 | 88.3 | 87.7 | 88.2 | 88.8 | 89.4 | 89.4 | 18.1 | 860.0 |
| 50,0° | 84.6 | 83.7 | 82.8 | 82.0 | 81.2 | 80.4 | 81.2 | 81.9 | 82.6 | 82.6 | 17.4 | 877.4 |
| 52,5° | 78.1 | 77.2 | 76.2 | 75.5 | 74.7 | 74.0 | 74.9 | 75.9 | 76.8 | 76.8 | 16.6 | 894.1 |
| 55,0° | 72.4 | 71.4 | 70.4 | 69.8 | 69.2 | 68.6 | 68.9 | 69.2 | 69.5 | 69.5 | 15.9 | 909.9 |
| 57,5° | 65.9 | 65.0 | 64.1 | 63.3 | 62.5 | 61.7 | 61.8 | 61.9 | 62.0 | 62.0 | 14.8 | 924.7 |
| 60,0° | 58.7 | 57.6 | 56.5 | 55.7 | 54.9 | 54.1 | 54.3 | 54.6 | 54.9 | 54.9 | 13.4 | 938.2 |
| 62,5° | 51.9 | 50.7 | 49.5 | 48.9 | 48.3 | 47.7 | 48.0 | 48.3 | 48.7 | 48.7 | 12.1 | 950.3 |
| 65,0° | 45.0 | 44.1 | 43.2 | 42.6 | 42.0 | 41.3 | 41.7 | 42.1 | 42.6 | 42.6 | 10.8 | 961.1 |
| 67,5° | 38.8 | 38.0 | 37.2 | 36.7 | 36.2 | 35.7 | 36.0 | 36.3 | 36.6 | 36.6 | 9.5 | 970.6 |
| 70,0° | 32.7 | 32.2 | 31.6 | 31.2 | 30.7 | 30.2 | 30.5 | 30.8 | 31.1 | 31.1 | 8.1 | 978.7 |
| 72,5° | 26.7 | 26.3 | 25.9 | 28.1 | 30.4 | 32.7 | 30.3 | 28.0 | 25.6 | 25.6 | 7.1 | 985.8 |
| 75,0° | 20.8 | 20.6 | 20.3 | 20.1 | 19.8 | 19.6 | 18.9 | 18.3 | 17.6 | 17.6 | 5.3 | 991.1 |
| 77,5° | 15.4 | 15.1 | 14.9 | 14.7 | 14.5 | 14.3 | 14.6 | 14.8 | 15.0 | 15.0 | 4.0 | 995.1 |
| 80,0° | 9.9 | 9.8 | 9.8 | 9.7 | 9.6 | 9.5 | 9.6 | 9.7 | 9.8 | 9.8 | 2.7 | 997.8 |
| 82,5° | 5.4 | 5.4 | 5.4 | 5.3 | 5.3 | 5.2 | 5.3 | 5.4 | 5.5 | 5.5 | 1.5 | 999.3 |
| 85,0° | 2.1 | 2.2 | 2.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.2 | 2.2 | 2.2 | 0.6 | 999.9 |
| 87,5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 1000.0 |
| 90,0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |

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|---------------------------|---------------------------|---------------|
| Dimmstufen-Tabelle | Umgebungstemperatur: 25°C | sITeco |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] Lebensdauerbeginn | Systemleistung [W] Lebensdauerende | Systemleistung [W] Durchschnitt |
|----------------|------------------|-------------------------|-----------------|--------------------------------------|------------------------------------|---------------------------------|
| 100 | 254 | 254 | 29700 | 270.2 | 286.6 | 278.4 |
| 95 | 241 | 252 | 28180 | 251.6 | 266.7 | 259.2 |
| 90 | 229 | 250 | 26777 | 235.2 | 249.1 | 242.2 |
| 85 | 216 | 248 | 25257 | 218.1 | 230.9 | 224.5 |
| 80 | 203 | 246 | 23737 | 201.7 | 213.6 | 207.6 |
| 75 | 190 | 243 | 22217 | 186.1 | 196.8 | 191.4 |
| 70 | 178 | 241 | 20813 | 172.1 | 182.0 | 177.0 |
| 65 | 165 | 238 | 19293 | 157.5 | 166.5 | 162.0 |
| 60 | 152 | 235 | 17773 | 143.3 | 151.5 | 147.4 |
| 55 | 140 | 232 | 16370 | 130.7 | 138.1 | 134.4 |
| 50 | 127 | 229 | 14850 | 117.2 | 123.8 | 120.5 |
| 45 | 114 | 225 | 13330 | 104.0 | 110.1 | 107.0 |
| 40 | 102 | 221 | 11927 | 92.2 | 97.4 | 94.8 |
| 35 | 89 | 216 | 10407 | 79.8 | 84.2 | 82.0 |
| 30 | 76 | 210 | 8887 | 67.7 | 71.4 | 69.6 |
| 25 | 63 | 203 | 7367 | 56.1 | 59.0 | 57.6 |
| 20 | 51 | 195 | 5963 | 45.6 | 48.0 | 46.8 |
| 15 | 38 | 184 | 4443 | 34.6 | 36.4 | 35.5 |
| 12 | 31 | 177 | 3625 | 28.8 | 30.2 | 29.5 |