

Lichttechnischer Prüfbefund

Familie
DL® 20 LED

Bestell-Nr.: 5XA51283NS008P
EAN: 4058352271865

LP-Nummer
58601_4



| | |
|------------------------|--|
| Ausführung | Mastaufsatz-Montage |
| Optik | symmetrisch, breit strahlend (PL1.2s) |
| Abdeckung | Einscheibensicherheitsglas (ESG) |
| Bestückung | LED 4000K / CRI ≥ 80 |
| Betriebsgerät | EVG Plus |
| Bemessungswerte | Nettolichtstrom = 5340 lm Systemleistung = 52.7 W Lichtausbeute = 101.3 lm/W |

Seriendokumentation
28.06.2018

siteco

Lichtstärke in cd/klm

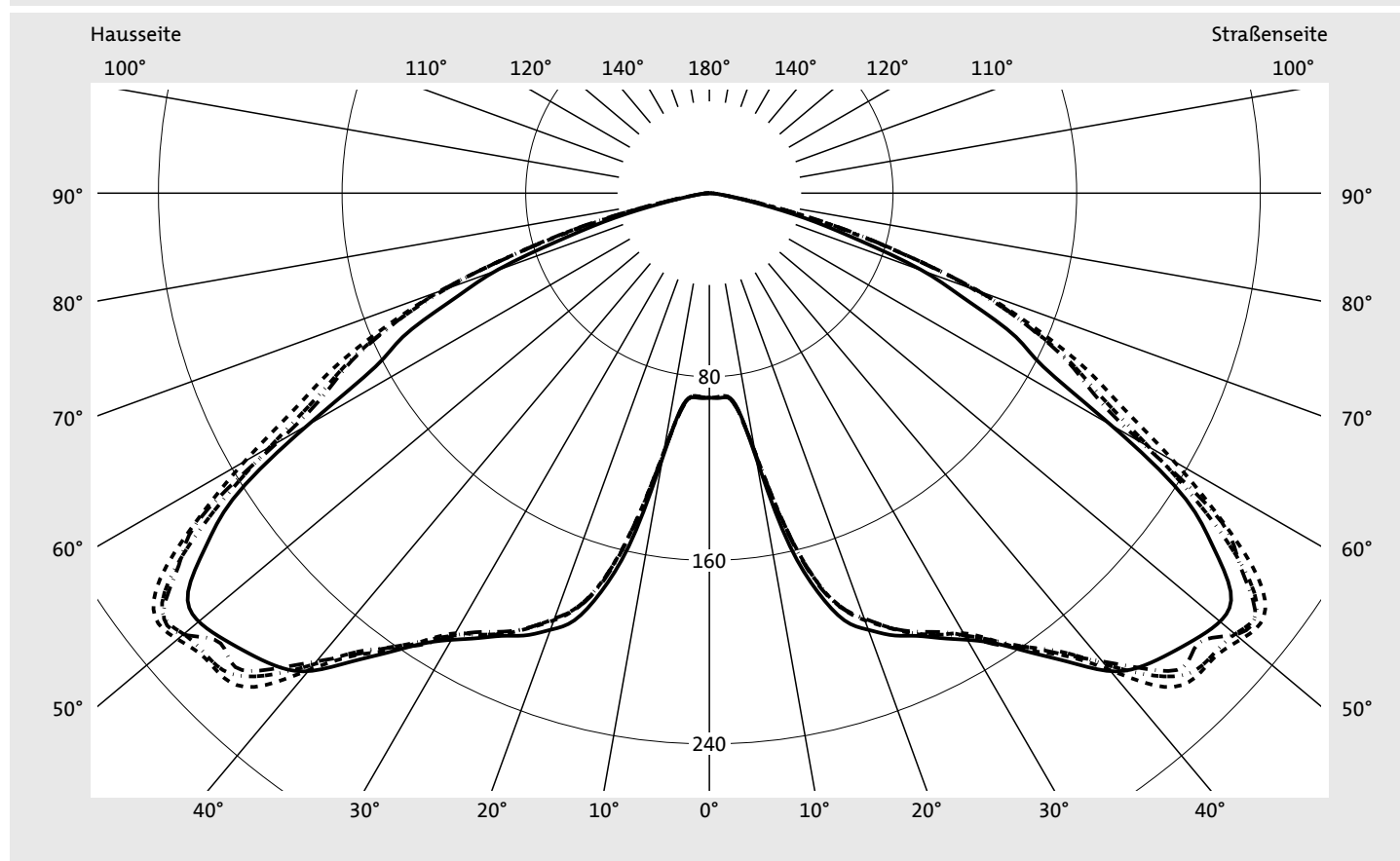
C180-0

C260-80

C265-85

C270-90

Imax: 304 cd/klm



Leuchtenbetriebswirkungsgrade

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

Lichtstärkeklasse nach EN13201-2

| | |
|-----------|-------|
| Klasse: | G6 |
| Imax 70° | 124.8 |
| Imax 80° | 13.9 |
| Imax 90° | 0.0 |
| Imax >90° | 0.0 |
| Imax >95° | 0.0 |

Messbedingungen

DIN EN 13032 und DIN 5032

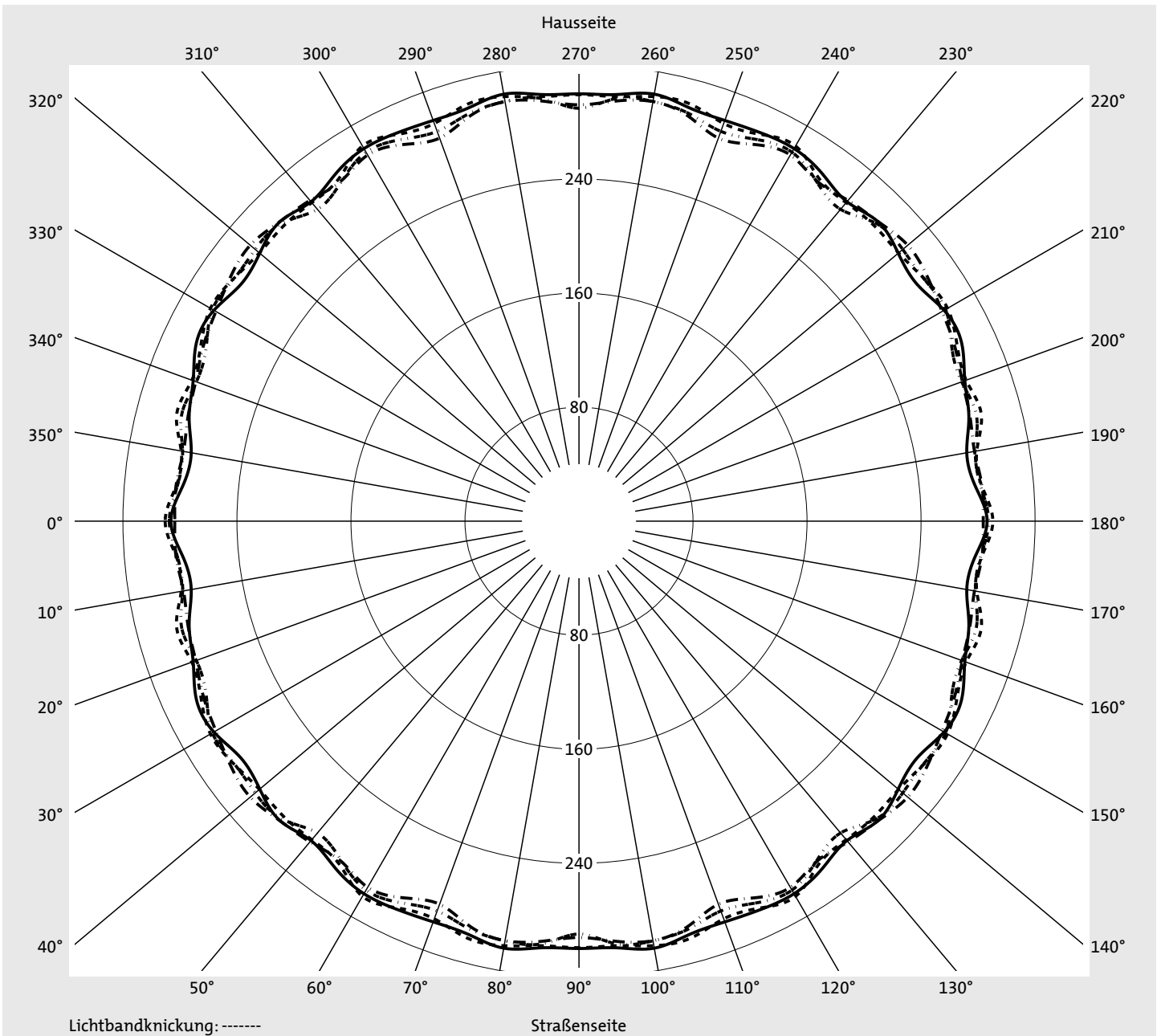
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Kegelmantelkurven in cd/klm KMK 52.5° KMK 50° KMK 47.5° KMK 45° siteco



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|--|---|------------------------------------|
| Familie DL® 20 LED | Bestell-Nr.: 5XA51283NS008P EAN: 4058352271865 | LP-Nummer 58601_4 |
| 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° | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 |
| 2,5° | 89.4 | 89.1 | 89.1 | 89.3 | 89.1 | 89.1 | 89.3 | 89.0 | 89.0 | 89.2 |
| 5,0° | 89.4 | 89.3 | 89.2 | 89.4 | 89.1 | 89.2 | 89.3 | 89.2 | 89.1 | 89.2 |
| 7,5° | 94.7 | 94.6 | 94.6 | 94.9 | 94.7 | 94.8 | 94.9 | 94.7 | 94.7 | 94.8 |
| 10,0° | 116.8 | 117.9 | 117.7 | 117.8 | 117.5 | 117.4 | 117.4 | 116.9 | 116.3 | 115.9 |
| 12,5° | 153.3 | 151.0 | 150.9 | 151.2 | 150.3 | 149.9 | 149.8 | 148.4 | 147.5 | 146.9 |
| 15,0° | 178.5 | 177.9 | 177.6 | 178.6 | 176.8 | 175.9 | 176.2 | 174.4 | 174.1 | 174.2 |
| 17,5° | 195.1 | 193.6 | 193.6 | 193.5 | 191.3 | 189.9 | 190.5 | 189.4 | 189.0 | 189.6 |
| 20,0° | 202.5 | 203.1 | 202.5 | 200.9 | 199.4 | 198.4 | 197.6 | 197.7 | 197.7 | 198.5 |
| 22,5° | 208.5 | 209.8 | 209.3 | 206.4 | 206.4 | 206.1 | 204.4 | 204.9 | 205.8 | 205.5 |
| 25,0° | 212.8 | 214.8 | 215.4 | 213.1 | 213.0 | 212.3 | 210.9 | 212.2 | 212.1 | 210.6 |
| 27,5° | 218.6 | 219.9 | 220.8 | 220.1 | 220.5 | 220.2 | 218.1 | 218.7 | 218.8 | 216.6 |
| 30,0° | 224.7 | 226.5 | 228.1 | 228.0 | 228.3 | 227.8 | 225.7 | 227.3 | 228.2 | 226.2 |
| 32,5° | 232.8 | 233.6 | 236.1 | 235.3 | 236.9 | 235.6 | 235.2 | 235.9 | 236.1 | 235.6 |
| 35,0° | 244.4 | 244.3 | 244.4 | 247.1 | 247.5 | 245.1 | 247.1 | 246.2 | 245.8 | 245.0 |
| 37,5° | 257.6 | 255.5 | 254.9 | 260.6 | 263.4 | 259.1 | 257.9 | 257.0 | 259.1 | 259.6 |
| 40,0° | 271.9 | 270.0 | 270.9 | 275.1 | 278.8 | 273.6 | 270.9 | 273.8 | 277.0 | 276.9 |
| 42,5° | 279.4 | 278.7 | 276.7 | 282.8 | 285.1 | 286.0 | 288.3 | 292.2 | 295.6 | 294.7 |
| 45,0° | 283.6 | 283.8 | 281.8 | 284.0 | 286.2 | 290.8 | 294.2 | 298.5 | 301.1 | 297.0 |
| 47,5° | 287.5 | 282.9 | 282.4 | 288.6 | 285.7 | 288.6 | 297.0 | 295.8 | 296.5 | 295.2 |
| 50,0° | 290.4 | 283.7 | 283.4 | 292.1 | 289.1 | 292.7 | 298.6 | 296.1 | 292.7 | 293.0 |
| 52,5° | 286.4 | 279.3 | 276.3 | 283.2 | 288.1 | 296.2 | 295.8 | 289.6 | 292.4 | 296.9 |
| 55,0° | 267.5 | 264.4 | 262.2 | 271.0 | 278.6 | 285.6 | 280.6 | 275.2 | 281.7 | 284.8 |
| 57,5° | 244.0 | 231.5 | 231.0 | 247.6 | 245.6 | 251.4 | 254.0 | 243.9 | 249.3 | 261.4 |
| 60,0° | 201.9 | 196.0 | 194.4 | 201.8 | 213.0 | 215.6 | 219.9 | 216.9 | 220.3 | 227.7 |
| 62,5° | 164.3 | 164.6 | 166.1 | 162.4 | 176.6 | 182.7 | 182.8 | 184.8 | 191.1 | 189.6 |
| 65,0° | 146.5 | 142.6 | 138.5 | 145.0 | 146.6 | 151.6 | 158.7 | 159.9 | 162.6 | 164.8 |
| 67,5° | 120.6 | 121.1 | 120.2 | 120.8 | 122.7 | 125.1 | 132.3 | 133.8 | 136.0 | 139.3 |
| 70,0° | 99.0 | 98.0 | 100.8 | 98.6 | 98.4 | 100.8 | 106.0 | 106.7 | 109.9 | 113.6 |
| 72,5° | 68.9 | 71.7 | 75.3 | 76.5 | 71.2 | 72.6 | 77.8 | 77.8 | 79.2 | 82.4 |
| 75,0° | 46.1 | 47.0 | 49.7 | 50.9 | 46.9 | 48.2 | 51.2 | 51.7 | 52.9 | 55.0 |
| 77,5° | 25.0 | 26.7 | 28.6 | 28.2 | 26.0 | 27.1 | 28.8 | 29.5 | 29.8 | 30.6 |
| 80,0° | 11.5 | 11.9 | 11.8 | 11.4 | 11.3 | 11.7 | 12.0 | 11.9 | 12.3 | 12.7 |
| 82,5° | 5.6 | 5.8 | 5.8 | 5.7 | 5.7 | 5.7 | 5.7 | 5.9 | 5.9 | 6.0 |
| 85,0° | 2.8 | 2.8 | 2.9 | 2.7 | 2.8 | 2.7 | 2.7 | 2.9 | 2.9 | 2.8 |
| 87,5° | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 |
| 90,0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105,0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120,0° | 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 |
| 140,0° | 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 |
| 160,0° | 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 |
| 180,0° | 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° | 270° | | |
| | 310° | 305° | 300° | 295° | 290° | 285° | 280° | 275° | | | |
| γ | Lichtstärke in cd/klm | | | | | | | | | Lichtstrom in lm/klm | |
| 0,0° | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 0.1 | 0.1 |
| 2,5° | 89.0 | 88.9 | 89.1 | 88.9 | 88.9 | 89.0 | 88.8 | 88.9 | 89.1 | 1.1 | 1.2 |
| 5,0° | 89.0 | 89.0 | 89.2 | 89.1 | 89.1 | 89.1 | 88.9 | 88.9 | 89.1 | 2.1 | 3.3 |
| 7,5° | 94.8 | 94.9 | 95.2 | 95.2 | 95.2 | 95.3 | 95.3 | 95.5 | 95.8 | 3.4 | 6.7 |
| 10,0° | 115.3 | 114.9 | 114.6 | 114.2 | 114.1 | 114.3 | 114.6 | 114.9 | 115.1 | 5.5 | 12.2 |
| 12,5° | 145.1 | 144.4 | 144.6 | 144.1 | 144.3 | 145.3 | 145.0 | 145.1 | 145.9 | 8.7 | 21.0 |
| 15,0° | 172.4 | 171.7 | 172.7 | 171.7 | 171.3 | 172.4 | 171.8 | 171.9 | 172.8 | 12.4 | 33.4 |
| 17,5° | 189.1 | 189.0 | 190.1 | 190.1 | 190.1 | 190.0 | 189.0 | 188.5 | 189.0 | 15.7 | 49.1 |
| 20,0° | 199.5 | 200.1 | 200.2 | 200.8 | 200.8 | 199.3 | 198.0 | 197.4 | 197.2 | 18.7 | 67.8 |
| 22,5° | 206.8 | 208.0 | 208.1 | 208.3 | 207.8 | 206.2 | 205.1 | 204.9 | 204.8 | 21.7 | 89.5 |
| 25,0° | 212.7 | 214.9 | 214.4 | 216.0 | 215.7 | 212.3 | 211.9 | 211.7 | 210.8 | 24.7 | 114.1 |
| 27,5° | 218.3 | 220.2 | 220.0 | 220.8 | 219.7 | 216.9 | 217.1 | 216.9 | 215.6 | 27.7 | 141.9 |
| 30,0° | 224.5 | 226.0 | 228.2 | 226.6 | 222.8 | 221.2 | 221.4 | 222.6 | 222.7 | 30.9 | 172.8 |
| 32,5° | 233.9 | 235.2 | 236.2 | 234.3 | 231.1 | 231.3 | 231.2 | 231.2 | 233.3 | 34.5 | 207.3 |
| 35,0° | 241.3 | 241.5 | 243.4 | 241.8 | 241.7 | 245.6 | 243.3 | 241.5 | 241.6 | 38.4 | 245.7 |
| 37,5° | 254.7 | 251.3 | 252.7 | 252.3 | 255.3 | 258.8 | 254.0 | 251.9 | 253.4 | 42.8 | 288.5 |
| 40,0° | 271.6 | 270.2 | 270.2 | 267.1 | 267.6 | 271.4 | 271.1 | 268.0 | 266.4 | 47.9 | 336.4 |
| 42,5° | 289.1 | 285.0 | 287.6 | 280.1 | 280.4 | 288.1 | 291.7 | 284.9 | 281.1 | 53.0 | 389.3 |
| 45,0° | 293.7 | 291.2 | 296.6 | 291.5 | 285.9 | 294.4 | 298.8 | 295.8 | 292.0 | 56.6 | 445.9 |
| 47,5° | 285.5 | 290.7 | 298.9 | 295.4 | 291.0 | 296.2 | 298.9 | 297.6 | 289.6 | 59.0 | 504.9 |
| 50,0° | 291.7 | 293.5 | 303.9 | 299.5 | 296.8 | 302.8 | 302.4 | 298.9 | 299.2 | 61.9 | 566.8 |
| 52,5° | 292.5 | 297.6 | 301.8 | 300.7 | 299.1 | 300.1 | 304.2 | 300.4 | 299.8 | 63.9 | 630.7 |
| 55,0° | 283.0 | 284.6 | 291.3 | 286.8 | 283.5 | 287.6 | 291.7 | 283.6 | 282.0 | 63.0 | 693.7 |
| 57,5° | 252.8 | 254.4 | 263.4 | 256.9 | 257.0 | 268.2 | 264.1 | 253.9 | 262.5 | 58.3 | 752.0 |
| 60,0° | 223.6 | 221.9 | 226.6 | 224.6 | 227.5 | 231.5 | 233.8 | 221.0 | 217.2 | 51.8 | 803.8 |
| 62,5° | 191.3 | 191.0 | 190.5 | 191.2 | 193.2 | 197.8 | 203.7 | 192.8 | 188.4 | 45.0 | 848.8 |
| 65,0° | 165.3 | 163.5 | 163.7 | 164.9 | 166.5 | 172.0 | 180.9 | 172.8 | 171.2 | 39.7 | 888.5 |
| 67,5° | 138.5 | 137.3 | 135.8 | 137.6 | 141.2 | 147.7 | 153.5 | 149.1 | 149.0 | 34.1 | 922.7 |
| 70,0° | 111.1 | 110.5 | 110.4 | 110.8 | 114.6 | 122.2 | 124.8 | 122.4 | 124.8 | 28.2 | 950.9 |
| 72,5° | 81.4 | 82.0 | 81.7 | 83.0 | 86.2 | 89.4 | 90.0 | 90.5 | 89.4 | 21.0 | 971.9 |
| 75,0° | 55.8 | 57.0 | 55.8 | 55.1 | 56.7 | 56.8 | 58.0 | 60.5 | 61.2 | 14.2 | 986.1 |
| 77,5° | 30.6 | 30.4 | 30.0 | 30.1 | 30.2 | 29.6 | 31.5 | 33.0 | 33.4 | 7.9 | 993.9 |
| 80,0° | 12.9 | 12.8 | 12.7 | 13.2 | 13.3 | 12.7 | 13.3 | 13.9 | 13.9 | 3.4 | 997.3 |
| 82,5° | 6.0 | 5.9 | 5.9 | 6.0 | 5.9 | 5.8 | 6.1 | 6.1 | 6.0 | 1.6 | 998.9 |
| 85,0° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.7 | 0.8 | 999.7 |
| 87,5° | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.4 | 1000.0 |
| 90,0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 105,0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 120,0° | 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 | 1000.0 |
| 140,0° | 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 | 1000.0 |
| 160,0° | 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 | 1000.0 |
| 180,0° | 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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|------------------------------|---|----------------------------------|
| Familie DL® 20 LED | Bestell-Nr.: 5XA51283NS008P EAN: 4058352271865 | LP-Nummer 58601_4 |
| Dimmstufen-Tabelle | | Umgebungstemperatur: 25°C |
| siteco | | |

| Lichtstrom [%] | Dimmstufe linear | Lichtstrom [lm] | Systemleistung [W] Lebensdauerbeginn | Systemleistung [W] Lebensdauerende | Systemleistung [W] Durchschnitt |
|----------------|------------------|-----------------|--------------------------------------|------------------------------------|---------------------------------|
| 100 | 254 | 5340 | 52.7 | 54.0 | 53.4 |
| 95 | 238 | 5073 | 49.4 | 50.6 | 50.0 |
| 90 | 223 | 4806 | 46.1 | 47.3 | 46.7 |
| 85 | 208 | 4539 | 43.1 | 44.0 | 43.6 |
| 80 | 194 | 4272 | 40.2 | 41.0 | 40.6 |
| 75 | 180 | 4005 | 37.1 | 38.0 | 37.6 |
| 70 | 166 | 3738 | 34.3 | 35.0 | 34.6 |
| 65 | 153 | 3471 | 31.5 | 32.2 | 31.8 |
| 60 | 139 | 3204 | 28.8 | 29.4 | 29.1 |
| 55 | 126 | 2937 | 26.3 | 26.8 | 26.6 |
| 50 | 114 | 2670 | 23.8 | 24.2 | 24.0 |
| 45 | 101 | 2403 | 21.3 | 21.7 | 21.5 |
| 40 | 89 | 2136 | 18.9 | 19.2 | 19.0 |
| 35 | 77 | 1869 | 16.6 | 16.8 | 16.7 |
| 30 | 65 | 1602 | 14.4 | 14.6 | 14.5 |
| 25 | 54 | 1335 | 12.1 | 12.4 | 12.2 |
| 20 | 43 | 1068 | 10.2 | 10.3 | 10.2 |
| 15 | 32 | 800 | 8.2 | 8.3 | 8.2 |