

Lichttechnischer Prüfbefund

Familie
DL® 20 LED

Bestell-Nr.: 5XA512832S008P
EAN: 4058352546413

LP-Nummer
59489_17



| | |
|------------------------|---|
| Ausführung | Mastaufsatz-Montage |
| Optik | symmetrisch, breit strahlend (PL1.2s) |
| Abdeckung | Einscheibensicherheitsglas (ESG) |
| Bestückung | LED 2200 K CRI ≥ 70 |
| Betriebsgerät | EVG Plus |
| Bemessungswerte | Nettolichtstrom = 4250 lm Systemleistung = 43.6 W Lichtausbeute = 97.5 lm/W |

Seriendokumentation
07.12.2023

siteco

Lichtstärke in cd/klm

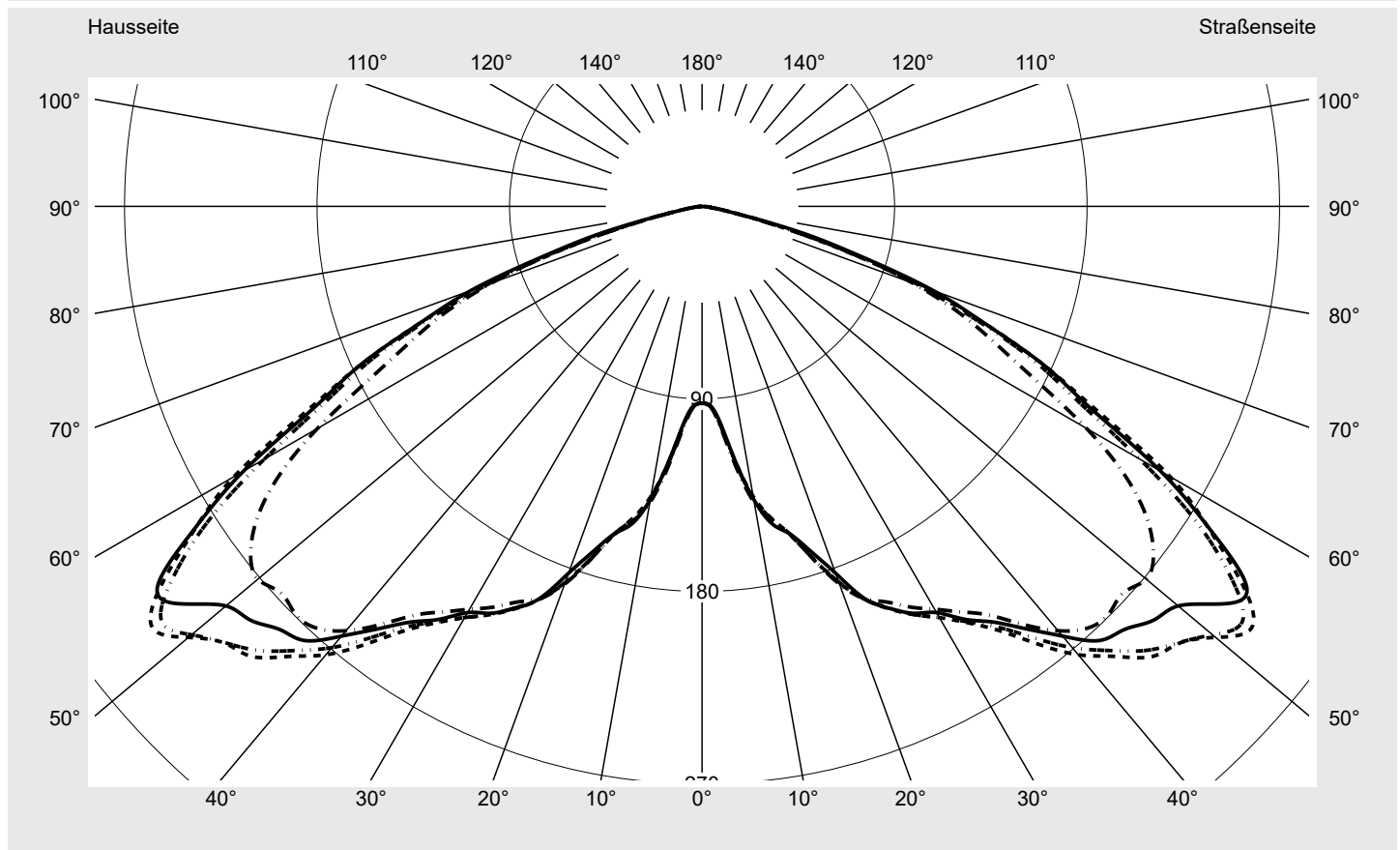
C180-0

C230-50

C235-55

C270-90

Imax: 324 cd/klm



Leuchtenbetriebswirkungsgrade

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

Lichtstärkeklasse nach EN13201-2

| | |
|-----------|-------|
| Klasse: | G6 |
| Imax 70° | 119.6 |
| Imax 80° | 10.2 |
| Imax 90° | 0.0 |
| Imax >90° | 0.0 |
| Imax >95° | 0.0 |

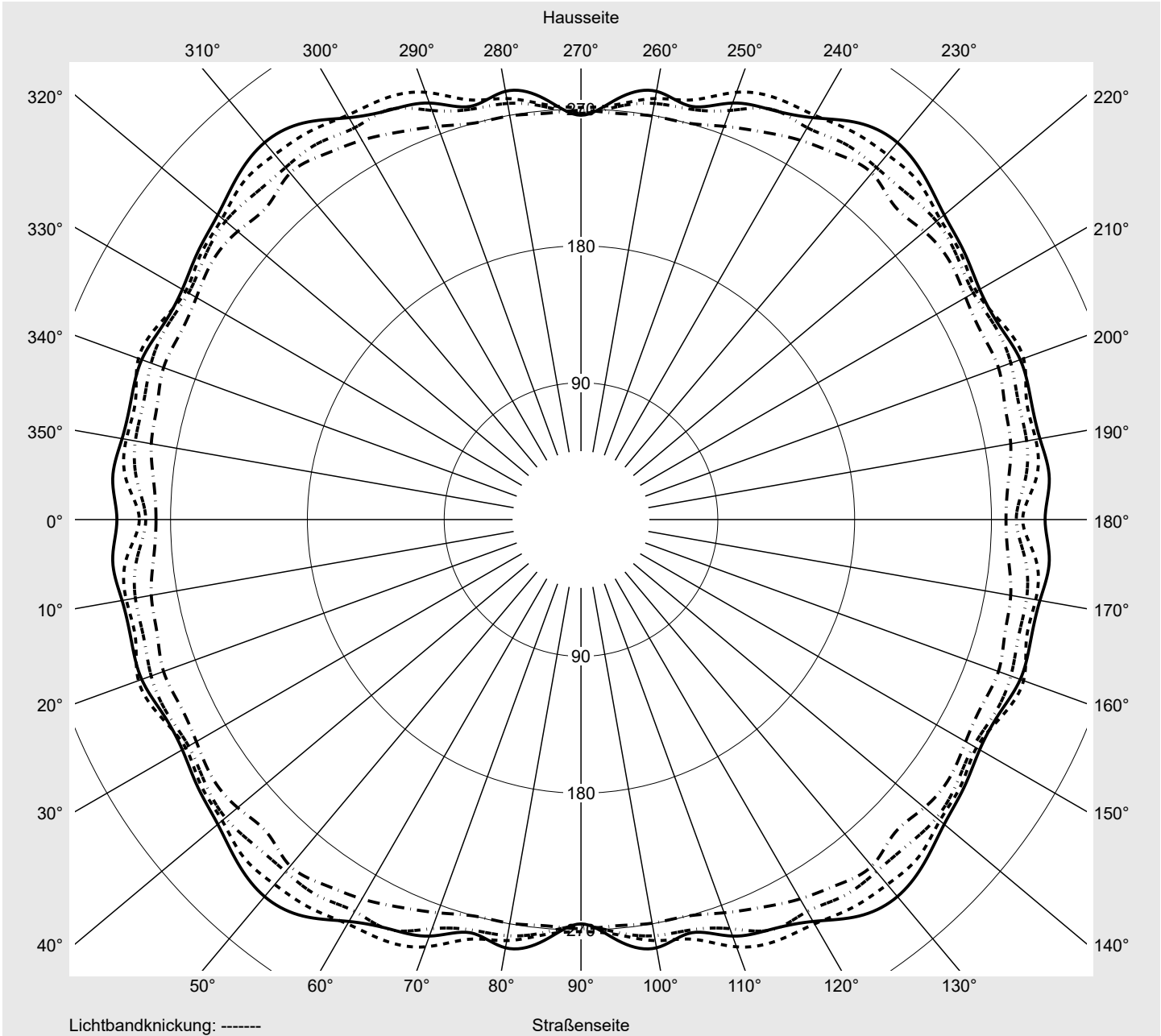
Messbedingungen

DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

| | | |
|-------------------------------------|---|-------------------------------------|
| Familie DL® 20 LED | Bestell-Nr.: 5XA512832S008P EAN: 4058352546413 | LP-Nummer 59489_17 |
|-------------------------------------|---|-------------------------------------|

Kegelmantelkurven in cd/klm **KMK 52,5°** **KMK 50°** **KMK 47,5°** **KMK 45°** **siteco**



Lichttechnischer Prüfbefund

| | | |
|--|---|-------------------------------------|
| Familie DL® 20 LED | Bestell-Nr.: 5XA512832S008P EAN: 4058352546413 | LP-Nummer 59489_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° |
| γ | | | | | | | | | | |
| Lichtstärke in cd/klm | | | | | | | | | | |
| 0,0° | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 |
| 2,5° | 93.4 | 93.2 | 93.1 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.4 | 93.5 |
| 5,0° | 102.6 | 102.9 | 102.9 | 103.0 | 102.9 | 102.9 | 103.0 | 103.0 | 103.1 | 103.3 |
| 7,5° | 120.6 | 120.2 | 120.1 | 120.1 | 119.8 | 119.6 | 119.7 | 119.6 | 119.8 | 120.3 |
| 10,0° | 139.0 | 139.1 | 138.5 | 138.4 | 137.3 | 136.8 | 136.8 | 136.3 | 136.6 | 137.5 |
| 12,5° | 152.1 | 151.2 | 150.5 | 150.5 | 149.0 | 148.4 | 148.7 | 147.7 | 147.9 | 149.4 |
| 15,0° | 158.5 | 157.9 | 157.9 | 158.4 | 157.4 | 157.4 | 158.2 | 157.5 | 157.6 | 159.0 |
| 17,5° | 169.1 | 168.6 | 169.4 | 170.4 | 170.6 | 171.4 | 172.2 | 172.4 | 172.1 | 172.5 |
| 20,0° | 182.5 | 183.9 | 185.1 | 185.3 | 186.6 | 187.2 | 186.8 | 186.8 | 186.6 | 186.5 |
| 22,5° | 198.4 | 198.7 | 199.5 | 198.7 | 200.2 | 200.0 | 198.4 | 199.1 | 198.5 | 197.4 |
| 25,0° | 207.3 | 209.4 | 209.1 | 207.0 | 208.7 | 208.9 | 206.7 | 207.5 | 207.4 | 205.9 |
| 27,5° | 214.5 | 216.3 | 216.8 | 214.4 | 215.4 | 215.5 | 214.3 | 214.7 | 214.1 | 213.5 |
| 30,0° | 219.3 | 221.6 | 223.0 | 220.8 | 221.0 | 222.5 | 222.0 | 220.9 | 220.0 | 219.9 |
| 32,5° | 228.9 | 230.3 | 232.4 | 230.1 | 228.5 | 229.7 | 230.3 | 229.4 | 230.0 | 229.4 |
| 35,0° | 237.2 | 241.2 | 242.0 | 238.8 | 237.4 | 239.3 | 241.5 | 239.9 | 239.5 | 240.8 |
| 37,5° | 248.9 | 251.0 | 250.2 | 248.6 | 251.3 | 252.2 | 253.8 | 251.9 | 252.2 | 254.2 |
| 40,0° | 262.2 | 264.6 | 262.5 | 260.0 | 264.5 | 267.0 | 266.1 | 268.6 | 268.1 | 269.8 |
| 42,5° | 275.2 | 277.3 | 275.3 | 277.1 | 278.3 | 279.3 | 279.4 | 282.4 | 282.6 | 279.4 |
| 45,0° | 279.6 | 282.1 | 287.0 | 288.7 | 292.2 | 290.7 | 292.2 | 296.1 | 294.8 | 291.7 |
| 47,5° | 286.3 | 293.2 | 297.7 | 297.9 | 300.9 | 300.6 | 298.1 | 302.0 | 305.3 | 303.3 |
| 50,0° | 290.6 | 300.3 | 303.8 | 303.4 | 309.8 | 305.6 | 300.3 | 305.1 | 308.1 | 314.0 |
| 52,5° | 305.3 | 309.2 | 306.5 | 306.3 | 307.5 | 303.2 | 302.8 | 307.5 | 311.9 | 319.4 |
| 55,0° | 311.0 | 305.4 | 298.9 | 300.0 | 292.0 | 289.0 | 292.6 | 299.2 | 298.2 | 304.3 |
| 57,5° | 282.2 | 276.7 | 270.3 | 271.8 | 266.1 | 264.4 | 268.1 | 272.4 | 272.2 | 276.3 |
| 60,0° | 247.6 | 245.5 | 244.2 | 239.0 | 236.3 | 232.0 | 232.9 | 238.4 | 241.6 | 244.4 |
| 62,5° | 205.4 | 209.1 | 210.1 | 207.7 | 204.4 | 198.0 | 200.9 | 206.1 | 205.1 | 205.5 |
| 65,0° | 177.5 | 177.6 | 176.7 | 178.2 | 173.4 | 171.3 | 172.2 | 176.4 | 174.3 | 174.3 |
| 67,5° | 143.2 | 143.6 | 143.1 | 145.0 | 143.3 | 140.0 | 143.1 | 149.0 | 147.3 | 144.4 |
| 70,0° | 114.9 | 113.5 | 112.8 | 112.7 | 112.4 | 110.9 | 112.3 | 119.6 | 115.8 | 111.4 |
| 72,5° | 78.2 | 80.5 | 81.1 | 78.8 | 75.5 | 76.3 | 77.9 | 81.3 | 79.6 | 74.4 |
| 75,0° | 50.1 | 48.6 | 45.8 | 43.9 | 43.4 | 42.5 | 42.2 | 43.8 | 44.5 | 42.1 |
| 77,5° | 21.0 | 22.0 | 20.5 | 20.2 | 21.3 | 21.4 | 20.6 | 22.0 | 22.3 | 21.2 |
| 80,0° | 9.7 | 9.8 | 9.3 | 9.1 | 9.7 | 10.1 | 9.8 | 10.2 | 9.9 | 9.2 |
| 82,5° | 4.6 | 4.9 | 4.8 | 4.7 | 4.8 | 4.9 | 4.7 | 4.9 | 4.9 | 4.8 |
| 85,0° | 2.3 | 2.4 | 2.4 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 | 2.4 | 2.3 |
| 87,5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | 1.1 |
| 90,0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Lichttechnischer Prüfbefund

| | | |
|--|---|-------------------------------------|
| Familie DL® 20 LED | Bestell-Nr.: 5XA512832S008P EAN: 4058352546413 | LP-Nummer 59489_17 |
| 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° | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 0.1 | 0.1 |
| 2,5° | 93.6 | 93.6 | 93.8 | 93.7 | 93.8 | 93.9 | 94.0 | 94.0 | 94.0 | 1.1 | 1.3 |
| 5,0° | 103.5 | 103.8 | 104.1 | 104.3 | 104.4 | 104.7 | 104.7 | 104.8 | 104.8 | 2.5 | 3.7 |
| 7,5° | 120.8 | 121.4 | 122.0 | 122.4 | 122.6 | 123.0 | 123.1 | 123.2 | 123.3 | 4.3 | 8.1 |
| 10,0° | 137.7 | 138.2 | 139.0 | 139.1 | 139.5 | 140.3 | 140.0 | 140.2 | 140.7 | 6.6 | 14.7 |
| 12,5° | 149.2 | 149.7 | 150.7 | 150.0 | 150.0 | 150.8 | 150.0 | 149.8 | 150.7 | 8.9 | 23.5 |
| 15,0° | 158.8 | 159.0 | 159.7 | 158.5 | 158.3 | 159.1 | 158.1 | 157.8 | 158.5 | 11.2 | 34.8 |
| 17,5° | 172.6 | 172.6 | 172.5 | 172.3 | 172.4 | 172.6 | 172.5 | 172.7 | 172.9 | 14.2 | 48.9 |
| 20,0° | 187.2 | 186.9 | 186.0 | 186.5 | 187.0 | 186.8 | 187.9 | 188.4 | 188.0 | 17.5 | 66.4 |
| 22,5° | 198.9 | 198.8 | 197.2 | 198.1 | 198.3 | 197.6 | 199.7 | 199.8 | 198.5 | 20.8 | 87.3 |
| 25,0° | 207.7 | 207.1 | 204.7 | 205.8 | 206.0 | 204.4 | 206.4 | 206.2 | 204.0 | 24.0 | 111.2 |
| 27,5° | 215.2 | 215.1 | 211.4 | 213.0 | 213.8 | 212.2 | 213.4 | 213.2 | 211.2 | 27.1 | 138.3 |
| 30,0° | 222.0 | 221.9 | 217.5 | 218.7 | 221.0 | 221.0 | 221.2 | 219.6 | 217.4 | 30.3 | 168.6 |
| 32,5° | 230.7 | 230.2 | 225.0 | 226.1 | 228.5 | 226.7 | 226.4 | 226.4 | 224.8 | 33.7 | 202.3 |
| 35,0° | 242.1 | 239.9 | 236.9 | 238.1 | 238.4 | 235.2 | 234.4 | 234.3 | 233.1 | 37.5 | 239.8 |
| 37,5° | 257.9 | 254.0 | 251.8 | 253.1 | 250.1 | 245.3 | 243.6 | 245.6 | 246.2 | 41.9 | 281.6 |
| 40,0° | 273.6 | 269.3 | 265.8 | 265.6 | 261.7 | 256.1 | 255.0 | 256.8 | 259.0 | 46.6 | 328.2 |
| 42,5° | 285.3 | 281.6 | 279.0 | 274.3 | 269.2 | 263.3 | 265.7 | 264.5 | 267.2 | 51.1 | 379.3 |
| 45,0° | 297.6 | 293.5 | 288.2 | 281.5 | 275.3 | 270.1 | 269.7 | 268.3 | 269.2 | 55.3 | 434.6 |
| 47,5° | 302.4 | 302.0 | 297.7 | 297.7 | 286.4 | 279.5 | 278.0 | 272.6 | 267.2 | 59.4 | 494.0 |
| 50,0° | 313.4 | 311.6 | 307.2 | 305.6 | 299.1 | 285.9 | 281.3 | 274.1 | 271.1 | 63.1 | 557.1 |
| 52,5° | 323.8 | 318.5 | 305.3 | 297.3 | 291.6 | 281.4 | 286.1 | 278.0 | 266.0 | 65.8 | 622.9 |
| 55,0° | 308.6 | 301.6 | 284.6 | 267.9 | 262.8 | 266.7 | 273.7 | 261.2 | 253.9 | 64.7 | 687.6 |
| 57,5° | 281.4 | 273.7 | 260.4 | 243.6 | 239.6 | 241.8 | 248.4 | 242.0 | 234.7 | 60.7 | 748.3 |
| 60,0° | 252.7 | 236.3 | 225.6 | 218.2 | 209.4 | 207.3 | 215.1 | 212.9 | 207.5 | 54.9 | 803.2 |
| 62,5° | 210.3 | 199.3 | 188.5 | 191.6 | 187.9 | 180.1 | 183.3 | 184.8 | 175.8 | 48.1 | 851.3 |
| 65,0° | 177.5 | 172.0 | 164.5 | 167.2 | 167.2 | 158.3 | 157.6 | 157.0 | 151.2 | 42.2 | 893.6 |
| 67,5° | 143.0 | 139.2 | 137.6 | 142.5 | 139.9 | 135.1 | 129.6 | 129.7 | 130.3 | 35.6 | 929.2 |
| 70,0° | 108.8 | 106.6 | 108.9 | 113.6 | 113.6 | 108.1 | 104.3 | 105.9 | 104.6 | 28.6 | 957.8 |
| 72,5° | 72.6 | 73.7 | 76.1 | 79.3 | 78.8 | 76.0 | 73.7 | 73.5 | 74.9 | 20.1 | 977.9 |
| 75,0° | 42.7 | 43.0 | 42.7 | 43.6 | 43.1 | 44.3 | 40.7 | 40.8 | 41.6 | 11.5 | 989.5 |
| 77,5° | 21.9 | 21.5 | 21.5 | 22.1 | 20.4 | 19.9 | 19.5 | 19.9 | 19.4 | 5.6 | 995.1 |
| 80,0° | 9.5 | 9.8 | 9.7 | 10.1 | 9.8 | 9.4 | 9.7 | 9.9 | 9.3 | 2.6 | 997.7 |
| 82,5° | 4.9 | 5.0 | 4.9 | 5.3 | 5.0 | 4.8 | 5.1 | 5.2 | 4.9 | 1.3 | 999.0 |
| 85,0° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.5 | 2.4 | 2.3 | 0.6 | 999.7 |
| 87,5° | 1.2 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | 0.3 | 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 |

Lichttechnischer Prüfbefund

| | | |
|-------------------------------------|---|-------------------------------------|
| Familie DL® 20 LED | Bestell-Nr.: 5XA512832S008P EAN: 4058352546413 | LP-Nummer 59489_17 |
|-------------------------------------|---|-------------------------------------|

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

| Lichtstrom [%] | Dimmstufe linear | Lichtstrom [lm] | Systemleistung [W] Lebensdauerbeginn | Systemleistung [W] Lebensdauerende | Systemleistung [W] Durchschnitt |
|----------------|------------------|-----------------|--------------------------------------|------------------------------------|---------------------------------|
| 100 | 254 | 4250 | 43.6 | 44.8 | 44.2 |
| 95 | 240 | 4033 | 41.1 | 42.2 | 41.7 |
| 90 | 227 | 3830 | 38.8 | 39.8 | 39.3 |
| 85 | 213 | 3609 | 36.3 | 37.3 | 36.8 |
| 80 | 200 | 3402 | 34.2 | 35.0 | 34.6 |
| 75 | 187 | 3193 | 32.0 | 32.8 | 32.4 |
| 70 | 173 | 2967 | 29.6 | 30.3 | 30.0 |
| 65 | 160 | 2755 | 27.4 | 28.1 | 27.8 |
| 60 | 148 | 2558 | 25.4 | 26.1 | 25.8 |
| 55 | 135 | 2342 | 23.3 | 23.9 | 23.6 |
| 50 | 122 | 2124 | 21.2 | 21.7 | 21.4 |
| 45 | 109 | 1905 | 19.1 | 19.5 | 19.3 |
| 40 | 97 | 1701 | 17.2 | 17.6 | 17.4 |
| 35 | 85 | 1494 | 15.3 | 15.6 | 15.4 |
| 30 | 72 | 1270 | 13.2 | 13.6 | 13.4 |
| 25 | 60 | 1060 | 11.5 | 11.7 | 11.6 |
| 20 | 48 | 849 | 9.7 | 9.8 | 9.8 |
| 15 | 36 | 637 | 7.8 | 7.9 | 7.8 |
| 11 | 27 | 476 | 6.5 | 6.6 | 6.6 |