

## Lichttechnischer Prüfbefund

Familie  
DL® 20 LED

Bestell-Nr.: 5XA51283NS008  
EAN: 4058352271858

LP-Nummer  
59489\_24



|                        |  |
|------------------------|--|
| <b>Ausführung</b>      | Mastaufsatz-Montage  |
| <b>Optik</b>           | symmetrisch, breit strahlend (PL1.2s)  |
| <b>Abdeckung</b>       | Einscheibensicherheitsglas (ESG)   |
| <b>Bestückung</b>      | LED 4000 K   CRI ≥ 70  |
| <b>Betriebsgerät</b>   | EVG Plus   |
| <b>Bemessungswerte</b> | Nettolichtstrom = 3060 lm<br>Systemleistung = 23.2 W<br>Lichtausbeute = 131.9 lm/W |

Seriendokumentation  
09.01.2024

siteco

Lichtstärke in cd/klm

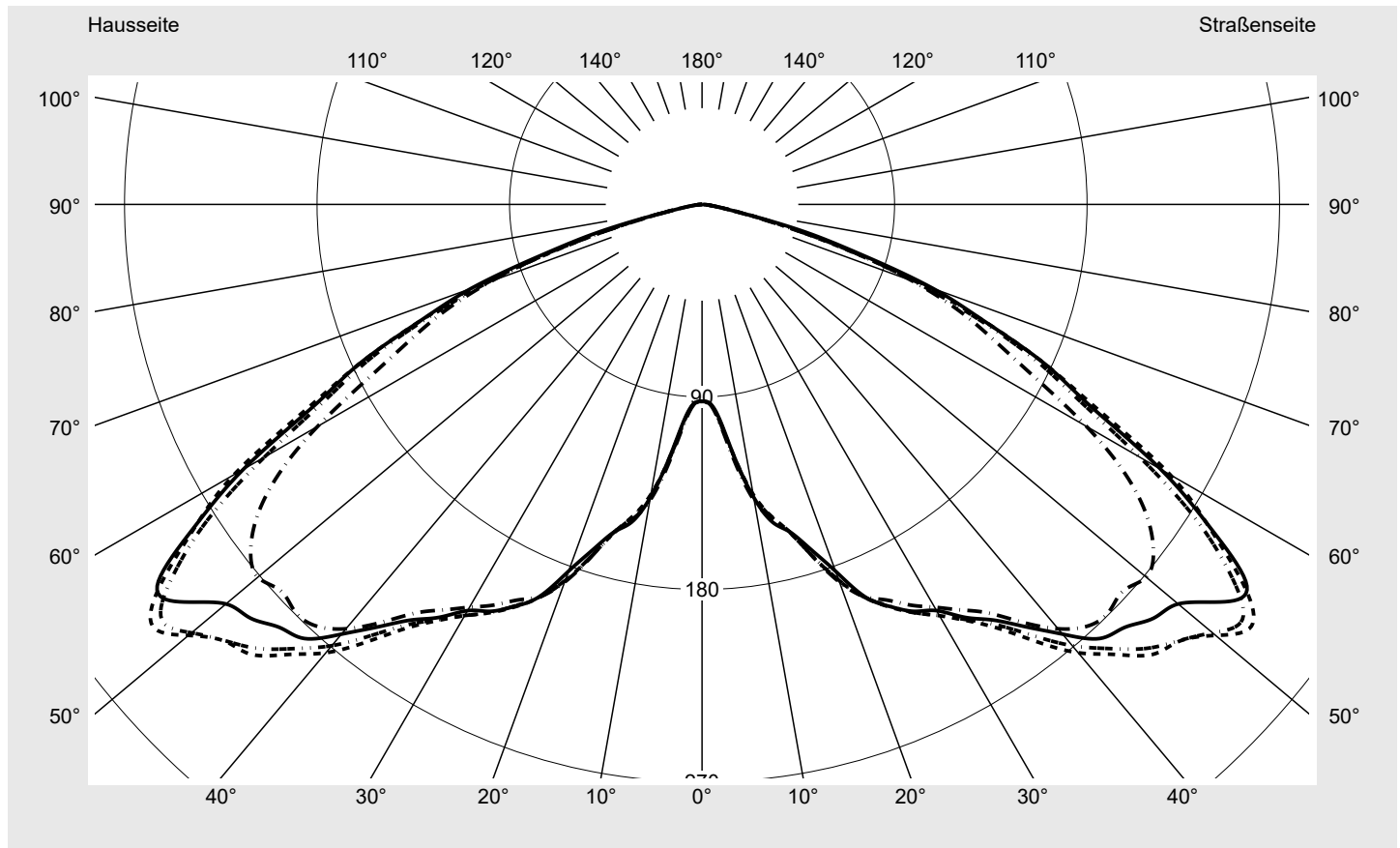
**C180-0**

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   |

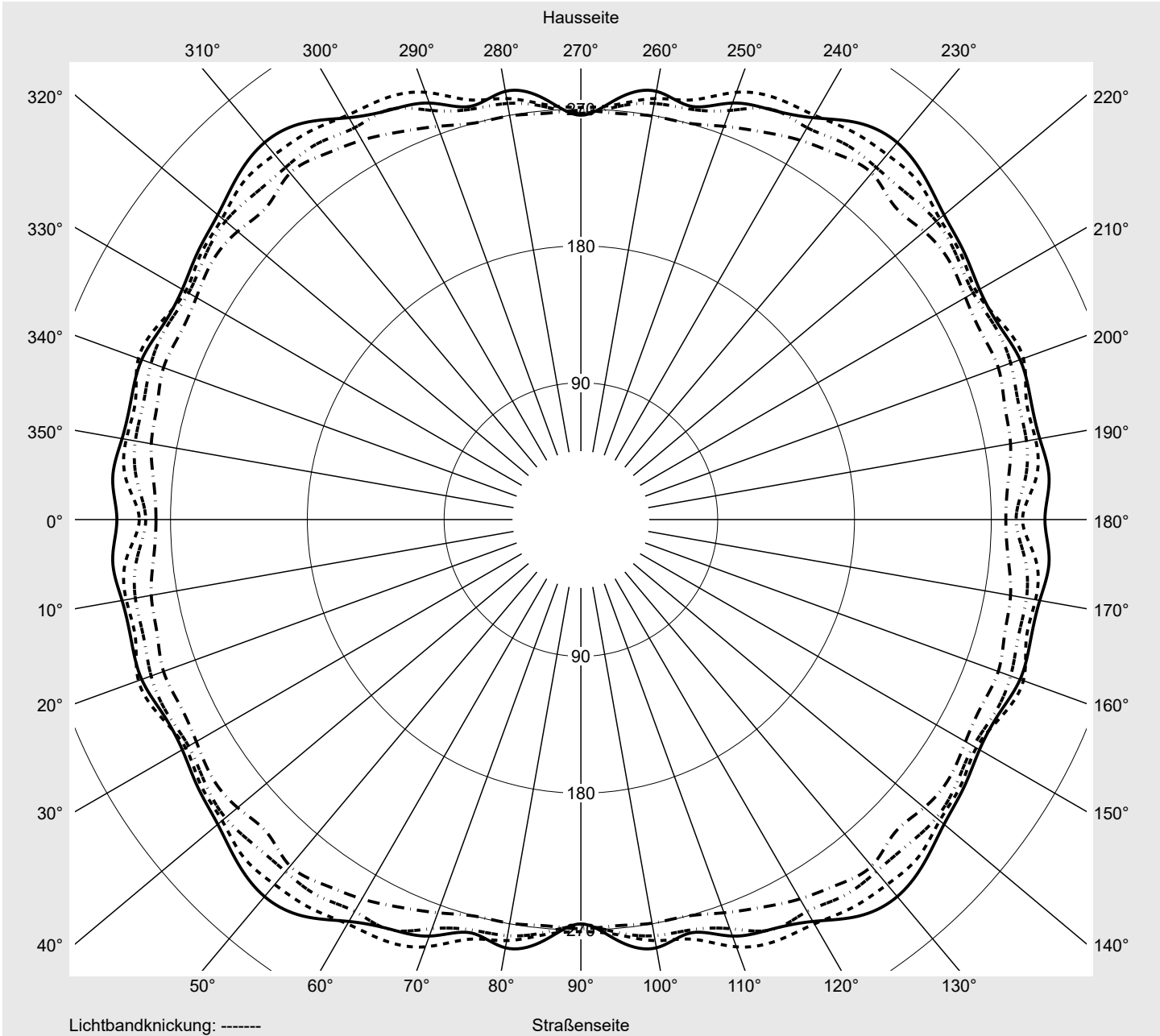
Messbedingungen

DIN EN 13032 und DIN 5032

**Lichttechnischer Prüfbefund**

|                              |  |                              |
|------------------------------|--|------------------------------|
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|------------------------------|--|------------------------------|

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



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|--|--|-------------------------------------|
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| <b>Wertetabelle Lichtstärkemessung</b> |  | <b>Maximale Lichtstärke</b>         |
|  |  | <b>siteco</b>                       |

| C-<br>Ebenen          | 0°<br>180° | 5°                   | 10°                  | 15°                  | 20°                  | 25°                  | 30°                  | 35°                  | 40°                  | 45°                  |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                       |            | 175°<br>185°<br>355° | 170°<br>190°<br>350° | 165°<br>195°<br>345° | 160°<br>200°<br>340° | 155°<br>205°<br>335° | 150°<br>210°<br>330° | 145°<br>215°<br>325° | 140°<br>220°<br>320° | 135°<br>225°<br>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                  |

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| <b>Wertetabelle Lichtstärkemessung</b> | <b>Maximale Lichtstärke</b> |
|--|-----------------------------|

| C-<br>Ebenen | 50°                   | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | Phi-Zone             | Summe<br>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            |

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|                           |                           |               |
|---------------------------|---------------------------|---------------|
| <b>Dimmstufen-Tabelle</b> | Umgebungstemperatur: 25°C | <b>sITeco</b> |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Lichtstrom [lm] | Systemleistung [W] Lebensdauerbeginn | Systemleistung [W] Lebensdauerende | Systemleistung [W] Durchschnitt |
|----------------|------------------|-----------------|--------------------------------------|------------------------------------|---------------------------------|
| 100            | 254              | 3060            | 23.2                                 | 23.7                               | 23.4                            |
| 95             | 241              | 2909            | 22.0                                 | 22.6                               | 22.3                            |
| 90             | 228              | 2758            | 20.9                                 | 21.4                               | 21.2                            |
| 85             | 215              | 2605            | 19.8                                 | 20.3                               | 20.0                            |
| 80             | 202              | 2452            | 18.7                                 | 19.1                               | 18.9                            |
| 75             | 189              | 2299            | 17.6                                 | 18.0                               | 17.8                            |
| 70             | 176              | 2144            | 16.5                                 | 16.9                               | 16.7                            |
| 65             | 163              | 1988            | 15.4                                 | 15.8                               | 15.6                            |
| 60             | 150              | 1833            | 14.3                                 | 14.7                               | 14.5                            |
| 55             | 138              | 1688            | 13.4                                 | 13.7                               | 13.6                            |
| 50             | 125              | 1531            | 12.4                                 | 12.6                               | 12.5                            |
| 45             | 112              | 1374            | 11.3                                 | 11.6                               | 11.4                            |
| 40             | 100              | 1227            | 10.4                                 | 10.6                               | 10.5                            |
| 35             | 87               | 1068            | 9.4                                  | 9.6                                | 9.5                             |
| 30             | 75               | 921             | 8.4                                  | 8.5                                | 8.4                             |
| 25             | 62               | 760             | 7.3                                  | 7.4                                | 7.4                             |
| 20             | 51               | 623             | 6.5                                  | 6.6                                | 6.6                             |