

## Lichttechnischer Prüfbefund

**Familie**  
Tunnellight TL-L

**Bestell-Nr.:** 5WD7A8A0H2C5  
**EAN:** 4058352973455

**LP-Nummer**  
59482\_227



**Ausführung** Sanierungseinsatz für lineare Tunnelleuchte, Leuchteneinsatz Retrofit, -----, -----, -----

**Optik** symmetrisch, extrem breit strahlend

**Abdeckung** Abdeckwanne, PMMA

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-Multilumen

**Einstellung** Werkseinstellung: DIP-Stufe=1

**Bemessungswerte** Nettolichtstrom = 9500 lm  
Systemleistung = 59.4 W  
Lichtausbeute = 159.9 lm/W

**Seriendokumentation**  
11.04.2024

siteco

**Lichtstärke in cd/klm**

C180-0

C245-65

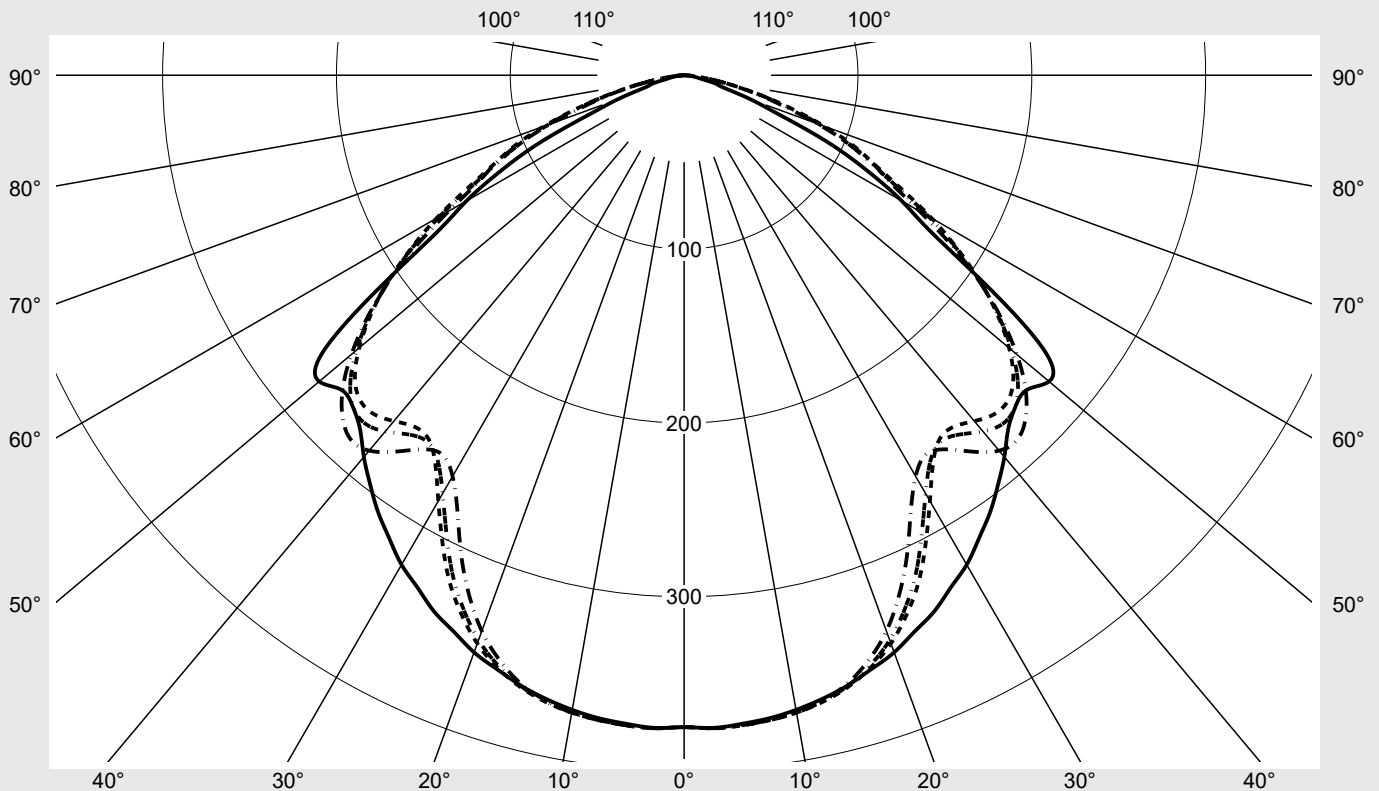
C250-70

C270-90

**Imax: 376 cd/klm**

Hausseite

Straßenseite



**Leuchtenbetriebswirkungsgrade**

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

**Lichtstärkeklasse nach EN13201-2**

|           |      |
|-----------|------|
| Klasse:   | G6   |
| Imax 70°  | 89.5 |
| Imax 80°  | 20.7 |
| Imax 90°  | 0.0  |
| Imax >90° | 0.0  |
| Imax >95° | 0.0  |

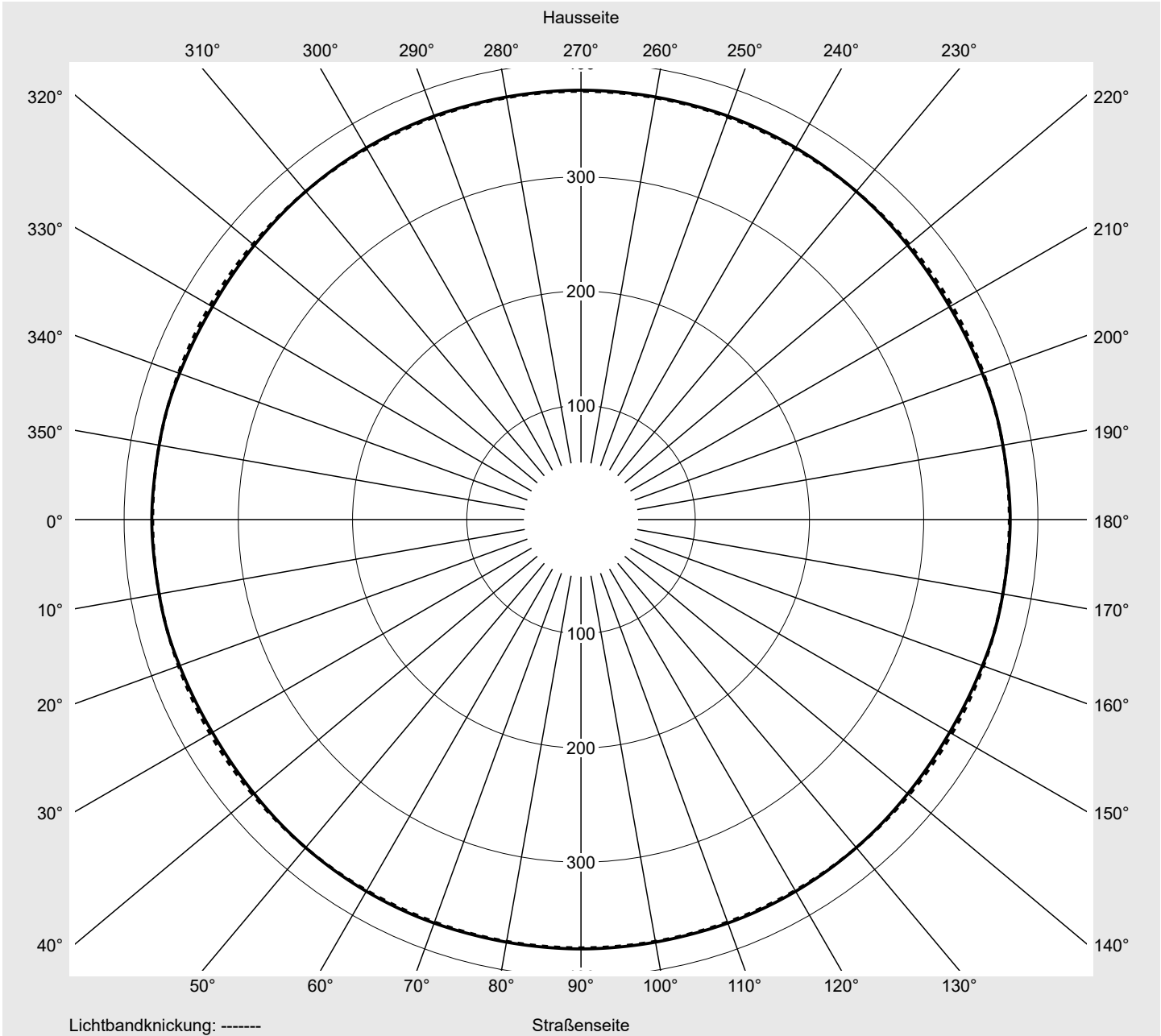
**Messbedingungen**

DIN EN 13032 und DIN 5032

**Lichttechnischer Prüfbefund**

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

**Kegelmantelkurven in cd/klm** KMK 2.5°  KMK 0°  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°         | 375.0      | 375.0                 | 375.0                | 375.0                | 375.0                | 375.0                | 375.0                | 375.0                | 375.0                | 375.0                | 375.0 |
| 2,5°         | 375.8      | 375.3                 | 375.0                | 375.1                | 374.0                | 373.2                | 372.7                | 372.9                | 373.4                | 374.3                | 374.3 |
| 5,0°         | 374.6      | 374.3                 | 374.2                | 374.3                | 373.2                | 372.4                | 371.9                | 372.2                | 372.8                | 373.6                | 373.6 |
| 7,5°         | 373.1      | 373.0                 | 373.0                | 373.1                | 372.0                | 371.2                | 370.7                | 371.0                | 371.5                | 372.4                | 372.4 |
| 10,0°        | 370.7      | 370.9                 | 371.1                | 371.3                | 370.3                | 369.5                | 368.9                | 369.2                | 369.8                | 370.6                | 370.6 |
| 12,5°        | 367.4      | 367.9                 | 368.2                | 368.4                | 367.5                | 366.8                | 366.2                | 366.5                | 367.1                | 367.9                | 367.9 |
| 15,0°        | 363.4      | 364.1                 | 364.6                | 364.8                | 364.0                | 363.3                | 362.7                | 362.9                | 363.5                | 364.3                | 364.3 |
| 17,5°        | 358.2      | 359.5                 | 360.2                | 360.4                | 359.7                | 359.0                | 358.2                | 358.3                | 358.6                | 359.0                | 359.0 |
| 20,0°        | 353.3      | 354.3                 | 355.1                | 355.6                | 354.8                | 354.0                | 353.3                | 353.0                | 352.8                | 352.6                | 352.6 |
| 22,5°        | 346.4      | 348.4                 | 349.5                | 349.8                | 349.1                | 348.1                | 347.0                | 346.1                | 345.2                | 344.2                | 344.2 |
| 25,0°        | 340.4      | 342.0                 | 343.1                | 343.6                | 342.7                | 341.4                | 339.7                | 337.9                | 335.9                | 333.8                | 333.8 |
| 27,5°        | 332.2      | 334.7                 | 336.1                | 336.2                | 335.0                | 333.2                | 330.7                | 327.6                | 324.3                | 320.7                | 320.7 |
| 30,0°        | 325.1      | 327.2                 | 328.4                | 328.4                | 326.8                | 324.3                | 320.8                | 316.3                | 311.4                | 306.1                | 306.1 |
| 32,5°        | 315.8      | 318.6                 | 319.9                | 319.6                | 317.4                | 313.9                | 309.2                | 303.2                | 296.5                | 289.1                | 289.1 |
| 35,0°        | 306.9      | 309.2                 | 310.1                | 309.5                | 306.4                | 301.8                | 295.6                | 287.6                | 279.1                | 270.1                | 270.1 |
| 37,5°        | 296.7      | 299.3                 | 299.9                | 298.5                | 294.4                | 288.6                | 281.2                | 271.3                | 261.6                | 252.2                | 252.2 |
| 40,0°        | 286.6      | 288.7                 | 288.7                | 286.6                | 281.1                | 273.8                | 264.6                | 253.3                | 243.9                | 236.5                | 236.5 |
| 42,5°        | 276.0      | 278.8                 | 278.4                | 274.6                | 267.5                | 258.4                | 247.5                | 236.0                | 228.9                | 226.3                | 226.3 |
| 45,0°        | 269.6      | 271.0                 | 268.8                | 263.1                | 253.8                | 242.6                | 229.6                | 220.3                | 217.7                | 221.9                | 221.9 |
| 47,5°        | 267.7      | 268.7                 | 264.7                | 255.7                | 242.9                | 229.1                | 214.3                | 209.2                | 211.5                | 221.1                | 221.1 |
| 50,0°        | 274.0      | 274.7                 | 268.5                | 255.4                | 236.9                | 219.6                | 203.3                | 203.3                | 208.7                | 219.7                | 219.7 |
| 52,5°        | 262.3      | 264.7                 | 261.3                | 251.9                | 233.3                | 216.3                | 201.1                | 203.5                | 208.1                | 214.9                | 214.9 |
| 55,0°        | 216.1      | 216.5                 | 215.4                | 212.7                | 205.8                | 203.6                | 205.9                | 208.7                | 209.2                | 207.5                | 207.5 |
| 57,5°        | 169.7      | 171.3                 | 169.4                | 164.0                | 162.7                | 170.6                | 187.8                | 203.8                | 208.0                | 200.2                | 200.2 |
| 60,0°        | 144.6      | 144.2                 | 140.7                | 134.0                | 132.9                | 139.8                | 154.8                | 173.9                | 186.6                | 192.7                | 192.7 |
| 62,5°        | 118.5      | 119.6                 | 117.3                | 111.8                | 112.8                | 118.6                | 129.4                | 139.1                | 150.0                | 162.1                | 162.1 |
| 65,0°        | 91.1       | 90.1                  | 88.7                 | 87.0                 | 91.8                 | 99.3                 | 109.8                | 115.5                | 120.4                | 124.2                | 124.2 |
| 67,5°        | 59.4       | 60.9                  | 61.1                 | 60.1                 | 65.2                 | 73.0                 | 83.3                 | 91.9                 | 96.6                 | 97.5                 | 97.5  |
| 70,0°        | 41.2       | 40.7                  | 40.7                 | 41.1                 | 44.7                 | 50.1                 | 57.1                 | 64.8                 | 71.4                 | 76.8                 | 76.8  |
| 72,5°        | 24.0       | 24.8                  | 25.3                 | 25.5                 | 28.3                 | 32.4                 | 37.8                 | 44.0                 | 49.5                 | 54.2                 | 54.2  |
| 75,0°        | 19.1       | 19.3                  | 19.5                 | 19.8                 | 20.8                 | 22.2                 | 24.0                 | 29.0                 | 33.7                 | 38.1                 | 38.1  |
| 77,5°        | 11.3       | 11.9                  | 12.4                 | 12.9                 | 14.3                 | 15.7                 | 17.0                 | 20.3                 | 23.0                 | 25.4                 | 25.4  |
| 80,0°        | 7.9        | 7.8                   | 7.8                  | 7.9                  | 8.3                  | 8.9                  | 9.7                  | 11.6                 | 14.1                 | 17.2                 | 17.2  |
| 82,5°        | 4.9        | 4.9                   | 4.9                  | 4.9                  | 5.1                  | 5.5                  | 5.9                  | 6.9                  | 8.1                  | 9.6                  | 9.6   |
| 85,0°        | 2.8        | 2.7                   | 2.7                  | 2.8                  | 2.8                  | 2.9                  | 3.1                  | 3.4                  | 3.9                  | 4.6                  | 4.6   |
| 87,5°        | 1.0        | 1.0                   | 1.0                  | 1.0                  | 1.0                  | 1.1                  | 1.1                  | 1.2                  | 1.4                  | 1.6                  | 1.6   |
| 90,0°        | 0.0        | 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>siteco</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°         | 375.0                 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0 | 375.0    | 0.6                  | 0.6    |
| 2,5°         | 375.0                 | 375.5 | 375.9 | 376.0 | 376.0 | 375.7 | 375.7 | 375.8 | 375.9 | 375.9    | 4.5                  | 5.0    |
| 5,0°         | 374.3                 | 374.9 | 375.3 | 375.5 | 375.5 | 375.2 | 375.2 | 375.3 | 375.5 | 375.5    | 8.9                  | 14.0   |
| 7,5°         | 373.1                 | 373.6 | 374.1 | 374.2 | 374.2 | 374.0 | 374.0 | 374.1 | 374.2 | 374.2    | 13.3                 | 27.3   |
| 10,0°        | 371.3                 | 371.9 | 372.3 | 372.3 | 372.2 | 372.0 | 372.0 | 372.1 | 372.2 | 372.2    | 17.7                 | 45.0   |
| 12,5°        | 368.5                 | 369.0 | 369.3 | 369.1 | 368.9 | 368.4 | 368.3 | 368.3 | 368.4 | 368.4    | 21.8                 | 66.8   |
| 15,0°        | 364.6                 | 364.8 | 364.9 | 364.3 | 363.6 | 362.9 | 362.6 | 362.4 | 362.4 | 362.4    | 25.8                 | 92.6   |
| 17,5°        | 359.0                 | 358.8 | 358.4 | 357.2 | 355.9 | 354.6 | 353.7 | 353.1 | 352.9 | 352.9    | 29.5                 | 122.1  |
| 20,0°        | 352.0                 | 351.0 | 349.9 | 347.8 | 345.7 | 343.5 | 341.9 | 340.8 | 340.2 | 340.2    | 32.8                 | 155.0  |
| 22,5°        | 342.4                 | 340.5 | 338.2 | 335.2 | 332.0 | 328.7 | 326.1 | 324.3 | 323.4 | 323.4    | 35.7                 | 190.7  |
| 25,0°        | 330.8                 | 327.7 | 324.2 | 320.1 | 315.7 | 311.2 | 307.6 | 305.1 | 303.7 | 303.7    | 38.1                 | 228.8  |
| 27,5°        | 316.3                 | 311.6 | 306.7 | 301.4 | 296.2 | 291.0 | 286.9 | 284.1 | 282.4 | 282.4    | 39.9                 | 268.8  |
| 30,0°        | 300.0                 | 293.9 | 288.0 | 282.8 | 277.9 | 273.3 | 269.9 | 267.6 | 266.4 | 266.4    | 41.4                 | 310.2  |
| 32,5°        | 281.8                 | 275.3 | 269.6 | 266.2 | 263.5 | 261.5 | 260.2 | 259.3 | 258.8 | 258.8    | 42.7                 | 352.8  |
| 35,0°        | 263.2                 | 258.2 | 255.1 | 255.9 | 257.4 | 259.6 | 261.2 | 262.2 | 262.7 | 262.7    | 43.9                 | 396.7  |
| 37,5°        | 248.0                 | 247.0 | 249.1 | 254.9 | 260.5 | 265.9 | 269.6 | 271.9 | 272.9 | 272.9    | 45.4                 | 442.2  |
| 40,0°        | 238.2                 | 242.9 | 250.7 | 259.7 | 267.5 | 274.0 | 278.0 | 280.7 | 281.9 | 281.9    | 46.9                 | 489.1  |
| 42,5°        | 234.5                 | 244.1 | 255.2 | 264.3 | 271.7 | 277.4 | 280.9 | 283.1 | 284.0 | 284.0    | 48.2                 | 537.3  |
| 45,0°        | 234.4                 | 246.0 | 256.9 | 263.9 | 269.3 | 273.2 | 275.8 | 277.3 | 277.9 | 277.9    | 49.1                 | 586.4  |
| 47,5°        | 233.6                 | 244.0 | 252.3 | 256.9 | 260.3 | 262.8 | 264.8 | 265.9 | 266.3 | 266.3    | 49.7                 | 636.1  |
| 50,0°        | 229.0                 | 236.3 | 241.5 | 244.0 | 245.9 | 247.2 | 248.7 | 249.6 | 249.8 | 249.8    | 50.1                 | 686.2  |
| 52,5°        | 219.7                 | 223.6 | 226.4 | 227.7 | 228.5 | 228.8 | 229.7 | 230.2 | 230.2 | 230.2    | 49.7                 | 735.9  |
| 55,0°        | 207.5                 | 207.8 | 208.6 | 208.5 | 208.4 | 208.1 | 208.4 | 208.3 | 207.9 | 207.9    | 46.9                 | 782.9  |
| 57,5°        | 193.7                 | 189.6 | 188.0 | 187.0 | 186.0 | 185.2 | 184.7 | 183.9 | 182.8 | 182.8    | 42.5                 | 825.4  |
| 60,0°        | 180.4                 | 171.8 | 166.8 | 164.4 | 162.2 | 160.3 | 159.2 | 157.9 | 156.4 | 156.4    | 37.9                 | 863.3  |
| 62,5°        | 160.1                 | 154.2 | 144.4 | 140.0 | 136.9 | 135.2 | 135.0 | 134.6 | 134.0 | 134.0    | 32.8                 | 896.1  |
| 65,0°        | 131.8                 | 132.2 | 125.5 | 120.3 | 117.7 | 117.6 | 118.7 | 119.4 | 119.6 | 119.6    | 27.8                 | 923.9  |
| 67,5°        | 102.8                 | 107.4 | 111.4 | 104.9 | 101.3 | 100.6 | 101.2 | 101.7 | 101.9 | 101.9    | 22.5                 | 946.4  |
| 70,0°        | 80.8                  | 85.1  | 89.5  | 85.9  | 83.2  | 81.4  | 81.6  | 81.7  | 81.7  | 81.7     | 17.4                 | 963.9  |
| 72,5°        | 60.0                  | 63.5  | 64.8  | 66.4  | 65.4  | 61.8  | 61.8  | 61.8  | 61.7  | 61.7     | 12.6                 | 976.5  |
| 75,0°        | 41.4                  | 44.7  | 48.1  | 48.6  | 48.1  | 46.6  | 46.4  | 46.4  | 46.4  | 46.4     | 9.3                  | 985.8  |
| 77,5°        | 27.7                  | 29.8  | 31.8  | 33.0  | 33.5  | 33.1  | 32.4  | 32.0  | 32.0  | 32.0     | 6.4                  | 992.1  |
| 80,0°        | 18.0                  | 18.9  | 19.8  | 20.4  | 20.7  | 20.7  | 20.3  | 20.1  | 20.1  | 20.1     | 4.0                  | 996.1  |
| 82,5°        | 10.0                  | 10.8  | 11.8  | 11.9  | 11.9  | 11.8  | 11.5  | 11.4  | 11.3  | 11.3     | 2.3                  | 998.5  |
| 85,0°        | 4.7                   | 5.0   | 5.3   | 5.5   | 5.6   | 5.4   | 5.3   | 5.2   | 5.1   | 5.1      | 1.1                  | 999.6  |
| 87,5°        | 1.6                   | 1.7   | 1.8   | 1.8   | 1.8   | 1.8   | 1.7   | 1.7   | 1.7   | 1.7      | 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      | 0.0                  | 1000.0 |

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## Multilumen-Tabelle

Umgebungstemperatur: 25°C



| DIP-Stufe | Schalterstellung |   |   | Lichtstrom<br>[lm] | Systemleistung<br>[W] |
|-----------|------------------|---|---|--------------------|-----------------------|
|           | 1                | 2 | 3 |                    |                       |
| 1         | A                | C | E | 9500               | 59.4                  |
| 2         | A                | C | F | 9000               | 56.0                  |
| 3         | A                | D | E | 8500               | 52.5                  |
| 4         | A                | D | F | 8000               | 49.2                  |
| 5         | B                | C | E | 7500               | 45.9                  |
| 6         | B                | C | F | 7000               | 42.6                  |
| 7         | B                | D | E | 6500               | 39.4                  |
| 8         | B                | D | F | 6000               | 36.3                  |