

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1009134

Luminaire Tested: S122DIP-B485D725UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009134  
REPORT IS A COMBINATION OF REPORTS P984327 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B485D725UB30-4F0-XX-W2A-D4  
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

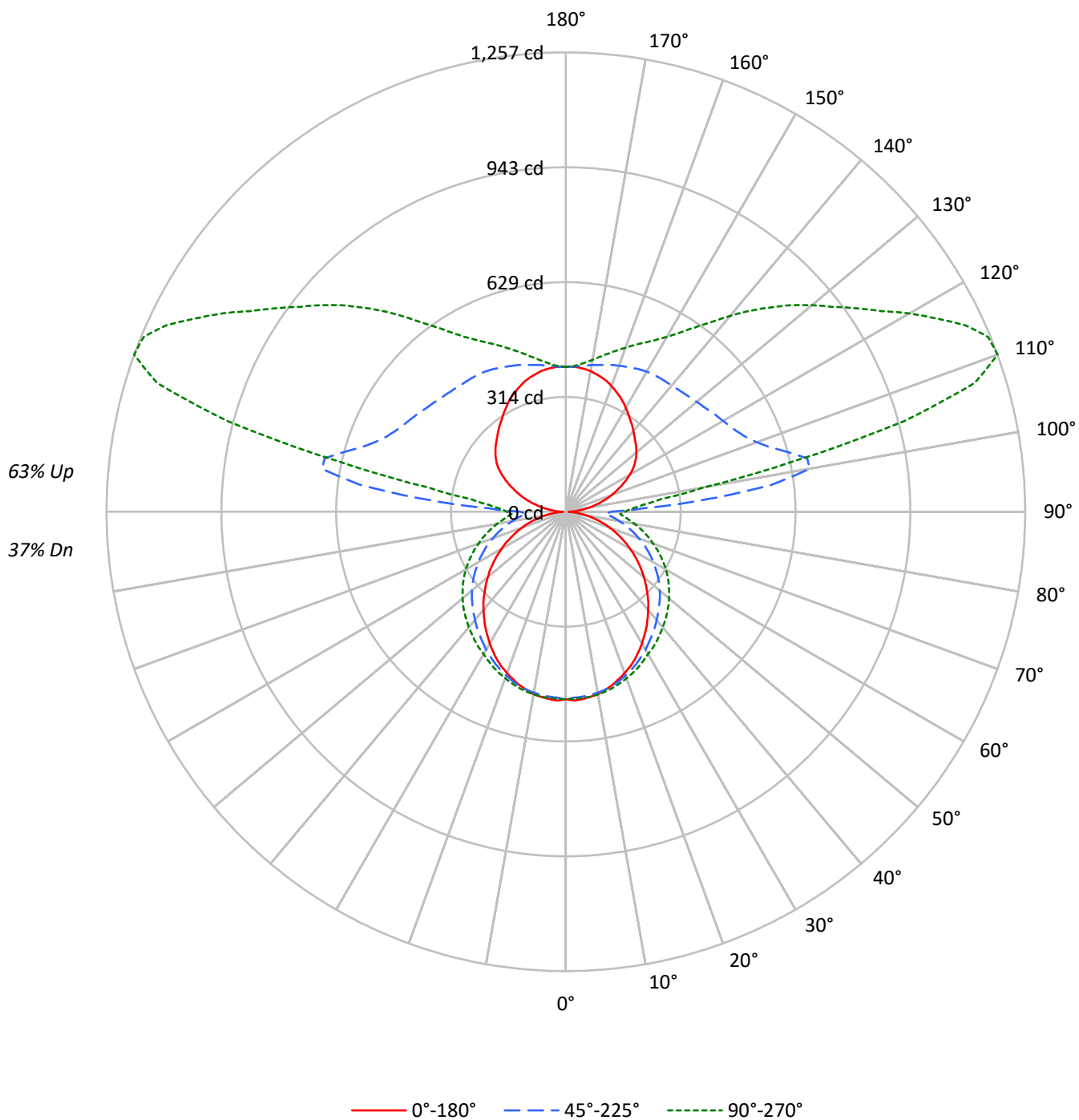
Lumens per Lamp: N/A  
Luminaire Lumens: 4728.2 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 45.1  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1009134

CATALOG NUMBER: S122DIP-B485D725UB30-4F0-XX-W2A-D4

### Luminous Intensity Polar Plot



TEST NUMBER: P1009134

CATALOG NUMBER: S122DIP-B485D725UB30-4F0-XX-W2A-D4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 |
| 1   | 94  | 89  | 85  | 81  | 85 | 81 | 77 | 74 | 65 | 62 | 60 | 50 | 49 | 47 | 37 | 36 | 35 |
| 2   | 85  | 77  | 71  | 65  | 76 | 70 | 64 | 60 | 56 | 52 | 49 | 44 | 41 | 38 | 32 | 30 | 29 |
| 3   | 77  | 67  | 60  | 54  | 69 | 61 | 54 | 49 | 49 | 44 | 40 | 38 | 35 | 32 | 28 | 26 | 24 |
| 4   | 70  | 59  | 51  | 45  | 63 | 54 | 47 | 41 | 43 | 38 | 34 | 34 | 30 | 27 | 25 | 22 | 20 |
| 5   | 64  | 53  | 44  | 38  | 58 | 48 | 41 | 35 | 39 | 33 | 29 | 30 | 26 | 23 | 22 | 20 | 17 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 35 | 30 | 35 | 29 | 25 | 27 | 23 | 20 | 20 | 17 | 15 |
| 7   | 55  | 42  | 34  | 29  | 49 | 38 | 31 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 18 | 15 | 13 |
| 8   | 51  | 38  | 30  | 25  | 46 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 16 | 17 | 14 | 12 |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 20 | 26 | 21 | 17 | 20 | 17 | 14 | 15 | 13 | 11 |
| 10  | 44  | 32  | 25  | 20  | 40 | 29 | 23 | 18 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 12 | 10 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8122 | 8122 | 8122 |
| 5°  | 8159 | 7775 | 7733 |
| 10° | 8105 | 7506 | 7397 |
| 15° | 7990 | 7228 | 7054 |
| 20° | 7846 | 6935 | 6728 |
| 25° | 7703 | 6655 | 6432 |
| 30° | 7505 | 6371 | 6139 |
| 35° | 7302 | 6097 | 5924 |
| 40° | 7090 | 5859 | 5711 |
| 45° | 6886 | 5643 | 5524 |
| 50° | 6669 | 5445 | 5341 |
| 55° | 6440 | 5234 | 5153 |
| 60° | 6160 | 5015 | 4957 |
| 65° | 5869 | 4763 | 4730 |
| 70° | 5539 | 4492 | 4486 |
| 75° | 5119 | 4221 | 4257 |
| 80° | 4455 | 3940 | 4018 |
| 85° | 3786 | 3674 | 3812 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

TEST NUMBER: P1009134

CATALOG NUMBER: S122DIP-B485D725UB30-4F0-XX-W2A-D4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.6   | 1.0       |
| 10°-20°   | 139.5  | 3.0       |
| 20°-30°   | 211.4  | 4.5       |
| 30°-40°   | 257.4  | 5.4       |
| 40°-50°   | 277.0  | 5.9       |
| 50°-60°   | 269.0  | 5.7       |
| 60°-70°   | 234.9  | 5.0       |
| 70°-80°   | 180.8  | 3.8       |
| 80°-90°   | 123.6  | 2.6       |
| 90°-100°  | 244.5  | 5.2       |
| 100°-110° | 605.0  | 12.8      |
| 110°-120° | 612.1  | 12.9      |
| 120°-130° | 492.7  | 10.4      |
| 130°-140° | 387.3  | 8.2       |
| 140°-150° | 287.0  | 6.1       |
| 150°-160° | 200.7  | 4.2       |
| 160°-170° | 118.2  | 2.5       |
| 170°-180° | 38.4   | 0.8       |
| 0°-30°    | 399.6  | 8.5       |
| 0°-40°    | 657.0  | 13.9      |
| 0°-60°    | 1202.9 | 25.4      |
| 0°-90°    | 1742.2 | 36.8      |
| 90°-120°  | 1461.6 | 30.9      |
| 90°-150°  | 2628.7 | 55.6      |
| 90°-180°  | 2986.0 | 63.2      |
| 0°-180°   | 4728.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 513 | 513   | 513 | 513   | 513  |      |
| 5°   | 515 | 512   | 508 | 512   | 512  | 49   |
| 15°  | 491 | 492   | 492 | 499   | 498  | 138  |
| 25°  | 446 | 451   | 458 | 467   | 469  | 205  |
| 35°  | 384 | 397   | 411 | 428   | 433  | 240  |
| 45°  | 315 | 335   | 361 | 384   | 392  | 243  |
| 55°  | 242 | 268   | 307 | 334   | 344  | 216  |
| 65°  | 165 | 202   | 245 | 276   | 286  | 164  |
| 75°  | 92  | 133   | 181 | 213   | 222  | 97   |
| 85°  | 27  | 73    | 120 | 152   | 162  | 28   |
| 90°  | 8   | 61    | 124 | 153   | 162  | 7    |
| 95°  | 33  | 107   | 385 | 227   | 210  | 32   |
| 105° | 97  | 166   | 630 | 1101  | 958  | 103  |
| 115° | 167 | 218   | 518 | 1044  | 1207 | 165  |
| 125° | 230 | 272   | 480 | 837   | 970  | 205  |
| 135° | 269 | 321   | 458 | 689   | 791  | 208  |
| 145° | 307 | 353   | 447 | 560   | 616  | 193  |
| 155° | 349 | 377   | 434 | 491   | 511  | 161  |
| 165° | 380 | 392   | 416 | 441   | 448  | 107  |
| 175° | 396 | 397   | 400 | 405   | 404  | 38   |
| 180° | 397 | 397   | 397 | 397   | 397  |      |

TEST NUMBER: P1009134

CATALOG NUMBER: S122DIP-B485D725UB30-4F0-XX-W2A-D4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 0°     | 513.1 | 513.1 | 513.1 | 513.1  | 513.1  |
| 2.5°   | 516.9 | 514.6 | 509.4 | 513.1  | 511.7  |
| 5°     | 514.6 | 512.4 | 507.9 | 512.4  | 511.7  |
| 7.5°   | 510.9 | 509.4 | 505.7 | 510.9  | 510.2  |
| 10°    | 506.5 | 505.0 | 502.7 | 508.7  | 507.9  |
| 12.5°  | 499.0 | 499.8 | 498.3 | 504.2  | 503.5  |
| 15°    | 490.8 | 492.3 | 492.3 | 499.0  | 498.3  |
| 17.5°  | 480.4 | 483.4 | 485.6 | 492.3  | 492.3  |
| 20°    | 470.0 | 473.7 | 476.7 | 484.9  | 484.9  |
| 22.5°  | 458.9 | 463.3 | 467.8 | 476.0  | 477.5  |
| 25°    | 446.2 | 451.4 | 458.1 | 467.0  | 469.3  |
| 27.5°  | 431.3 | 439.5 | 447.0 | 458.1  | 459.6  |
| 30°    | 416.5 | 426.1 | 435.8 | 447.7  | 449.9  |
| 32.5°  | 400.1 | 411.3 | 423.2 | 437.3  | 441.8  |
| 35°    | 384.5 | 397.1 | 411.3 | 427.6  | 432.8  |
| 37.5°  | 367.4 | 381.5 | 399.4 | 417.2  | 422.4  |
| 40°    | 350.3 | 366.6 | 386.7 | 406.1  | 412.8  |
| 42.5°  | 333.9 | 350.3 | 374.1 | 395.6  | 402.3  |
| 45°    | 315.3 | 335.4 | 361.4 | 384.5  | 391.9  |
| 47.5°  | 297.5 | 319.0 | 348.8 | 372.6  | 380.8  |
| 50°    | 278.9 | 301.9 | 335.4 | 360.7  | 368.9  |
| 52.5°  | 261.0 | 285.6 | 321.3 | 347.3  | 356.2  |
| 55°    | 241.7 | 268.5 | 307.1 | 333.9  | 343.6  |
| 57.5°  | 223.1 | 252.9 | 291.5 | 320.5  | 330.2  |
| 60°    | 203.0 | 235.0 | 277.4 | 305.7  | 316.1  |
| 62.5°  | 185.2 | 218.6 | 261.0 | 291.5  | 301.2  |
| 65°    | 165.1 | 201.5 | 245.4 | 275.9  | 285.6  |
| 67.5°  | 147.3 | 185.2 | 229.8 | 260.3  | 270.7  |
| 70°    | 127.9 | 166.6 | 212.7 | 244.7  | 253.6  |
| 72.5°  | 110.1 | 150.2 | 197.1 | 228.3  | 239.5  |
| 75°    | 91.5  | 133.1 | 180.7 | 212.7  | 222.4  |
| 77.5°  | 73.6  | 116.8 | 165.1 | 197.1  | 207.5  |
| 80°    | 55.8  | 101.1 | 149.5 | 180.7  | 191.1  |
| 82.5°  | 40.9  | 85.5  | 134.6 | 165.8  | 175.5  |
| 85°    | 26.8  | 72.9  | 120.5 | 151.7  | 162.1  |
| 87.5°  | 16.4  | 61.0  | 108.6 | 139.1  | 148.7  |
| 90°    | 8.2   | 61.0  | 124.2 | 152.7  | 162.0  |
| 92.5°  | 18.2  | 82.4  | 209.1 | 174.7  | 176.0  |
| 95°    | 32.6  | 106.6 | 384.7 | 226.8  | 209.7  |
| 97.5°  | 44.9  | 123.8 | 568.1 | 334.5  | 262.6  |
| 100°   | 64.0  | 138.8 | 677.5 | 553.4  | 383.4  |
| 102.5° | 80.8  | 152.7 | 676.1 | 859.3  | 636.9  |
| 105°   | 96.8  | 165.8 | 629.7 | 1101.1 | 958.5  |
| 107.5° | 115.2 | 178.8 | 586.3 | 1184.8 | 1173.2 |
| 110°   | 132.8 | 192.2 | 555.8 | 1164.4 | 1257.3 |

TEST NUMBER: P1009134

CATALOG NUMBER: S122DIP-B485D725UB30-4F0-XX-W2A-D4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 149.6 | 205.8 | 533.9 | 1110.0 | 1250.6 |
| 115°   | 167.1 | 218.5 | 517.9 | 1043.6 | 1207.2 |
| 117.5° | 184.6 | 231.9 | 506.6 | 980.8  | 1144.8 |
| 120°   | 201.4 | 244.9 | 496.8 | 923.4  | 1085.4 |
| 122.5° | 217.5 | 259.1 | 489.3 | 878.1  | 1022.2 |
| 125°   | 230.5 | 272.5 | 480.3 | 836.6  | 970.5  |
| 127.5° | 242.0 | 285.8 | 473.5 | 799.8  | 920.9  |
| 130°   | 251.9 | 298.4 | 467.6 | 763.2  | 879.2  |
| 132.5° | 261.1 | 310.6 | 462.3 | 725.6  | 836.6  |
| 135°   | 269.4 | 321.3 | 457.8 | 688.7  | 790.8  |
| 137.5° | 277.8 | 330.5 | 454.1 | 651.4  | 746.0  |
| 140°   | 287.7 | 338.2 | 450.4 | 618.0  | 699.5  |
| 142.5° | 297.7 | 345.0 | 448.9 | 586.4  | 653.8  |
| 145°   | 306.9 | 352.7 | 447.3 | 559.8  | 615.9  |
| 147.5° | 317.6 | 358.8 | 445.1 | 536.6  | 580.9  |
| 150°   | 328.3 | 364.9 | 442.8 | 519.1  | 551.9  |
| 152.5° | 338.9 | 371.0 | 438.9 | 505.0  | 529.8  |
| 155°   | 348.9 | 376.8 | 434.4 | 491.2  | 510.7  |
| 157.5° | 357.3 | 381.3 | 429.8 | 478.2  | 493.9  |
| 160°   | 365.7 | 385.9 | 425.2 | 465.3  | 477.9  |
| 162.5° | 374.1 | 389.4 | 421.4 | 453.1  | 462.6  |
| 165°   | 380.2 | 391.6 | 416.0 | 441.2  | 448.1  |
| 167.5° | 385.5 | 393.9 | 411.5 | 430.6  | 434.4  |
| 170°   | 390.9 | 395.0 | 407.6 | 420.6  | 422.2  |
| 172.5° | 393.9 | 396.2 | 403.1 | 411.8  | 412.2  |
| 175°   | 396.2 | 396.6 | 400.0 | 405.0  | 403.8  |
| 177.5° | 397.7 | 397.0 | 397.0 | 400.0  | 397.7  |
| 180°   | 397.0 | 397.0 | 397.0 | 397.0  | 397.0  |

(END OF REPORT)