

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: P1009631

Luminaire Tested: S122DIP-B865D925UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009631  
REPORT IS A COMBINATION OF REPORTS P984995 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B865D925UB35-4F0-XX-W2A-D1  
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

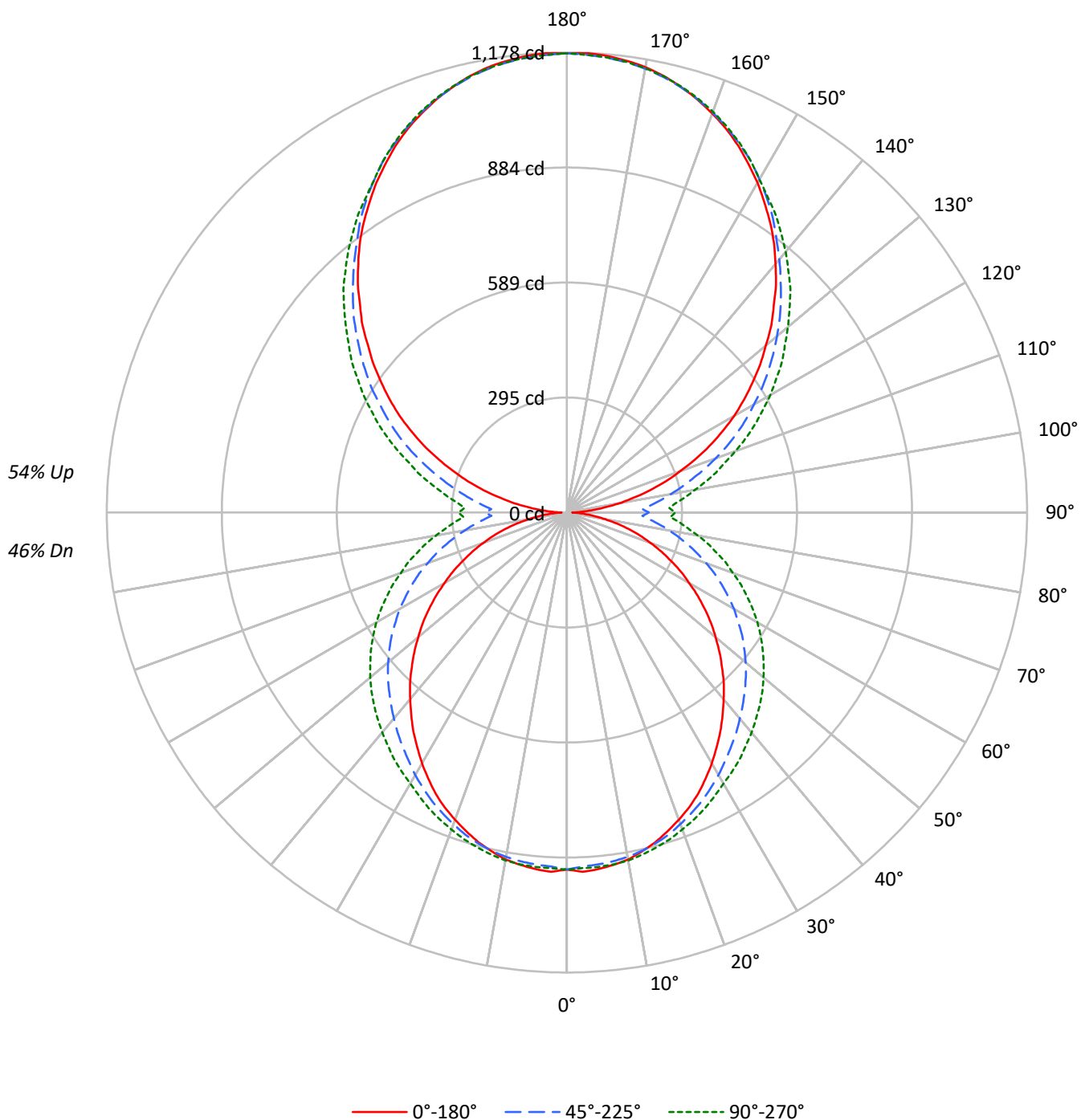
Lumens per Lamp: N/A  
Luminaire Lumens: 6778.9 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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

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### Luminous Intensity Polar Plot



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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 46 |    |    |
| 1   | 95  | 91  | 86  | 82  | 87 | 83 | 79 | 76 | 69 | 66 | 64 | 56 | 54 | 52 | 44 | 43 | 41 | 36 |    |    |
| 2   | 86  | 78  | 72  | 66  | 79 | 72 | 66 | 61 | 60 | 55 | 52 | 48 | 45 | 42 | 38 | 36 | 34 | 29 |    |    |
| 3   | 78  | 68  | 61  | 54  | 71 | 63 | 56 | 50 | 52 | 47 | 43 | 42 | 38 | 35 | 33 | 30 | 28 | 24 |    |    |
| 4   | 72  | 60  | 52  | 46  | 65 | 55 | 48 | 42 | 46 | 40 | 36 | 37 | 33 | 30 | 29 | 26 | 24 | 20 |    |    |
| 5   | 65  | 53  | 45  | 39  | 60 | 49 | 42 | 36 | 41 | 35 | 31 | 33 | 29 | 26 | 26 | 23 | 21 | 17 |    |    |
| 6   | 60  | 48  | 39  | 33  | 55 | 44 | 36 | 31 | 37 | 31 | 27 | 30 | 26 | 22 | 24 | 20 | 18 | 15 |    |    |
| 7   | 56  | 43  | 35  | 29  | 51 | 40 | 32 | 27 | 33 | 27 | 23 | 27 | 23 | 19 | 22 | 18 | 16 | 13 |    |    |
| 8   | 51  | 39  | 31  | 25  | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 20 | 17 | 20 | 17 | 14 | 12 |    |    |
| 9   | 48  | 35  | 28  | 23  | 44 | 33 | 26 | 21 | 28 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 13 | 10 |    |    |
| 10  | 45  | 32  | 25  | 20  | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 17 | 14 | 17 | 14 | 11 | 9  |    |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14470 | 14470 | 14470 |
| 5°  | 14536 | 13853 | 13775 |
| 10° | 14438 | 13373 | 13178 |
| 15° | 14234 | 12876 | 12565 |
| 20° | 13977 | 12355 | 11985 |
| 25° | 13723 | 11856 | 11458 |
| 30° | 13368 | 11348 | 10936 |
| 35° | 13007 | 10860 | 10552 |
| 40° | 12629 | 10437 | 10173 |
| 45° | 12268 | 10054 | 9841  |
| 50° | 11880 | 9701  | 9513  |
| 55° | 11474 | 9326  | 9180  |
| 60° | 10976 | 8935  | 8830  |
| 65° | 10455 | 8485  | 8425  |
| 70° | 9870  | 8002  | 7993  |
| 75° | 9118  | 7519  | 7581  |
| 80° | 7936  | 7018  | 7158  |
| 85° | 6738  | 6544  | 6791  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12268 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.7   | 1.3       |
| 10°-20°   | 248.5  | 3.7       |
| 20°-30°   | 376.6  | 5.6       |
| 30°-40°   | 458.6  | 6.8       |
| 40°-50°   | 493.4  | 7.3       |
| 50°-60°   | 479.2  | 7.1       |
| 60°-70°   | 418.5  | 6.2       |
| 70°-80°   | 322.1  | 4.8       |
| 80°-90°   | 219.0  | 3.2       |
| 90°-100°  | 221.6  | 3.3       |
| 100°-110° | 339.9  | 5.0       |
| 110°-120° | 467.5  | 6.9       |
| 120°-130° | 560.4  | 8.3       |
| 130°-140° | 600.9  | 8.9       |
| 140°-150° | 575.7  | 8.5       |
| 150°-160° | 480.5  | 7.1       |
| 160°-170° | 318.7  | 4.7       |
| 170°-180° | 111.4  | 1.6       |
| 0°-30°    | 711.8  | 10.5      |
| 0°-40°    | 1170.4 | 17.3      |
| 0°-60°    | 2142.9 | 31.6      |
| 0°-90°    | 3102.5 | 45.8      |
| 90°-120°  | 1028.9 | 15.2      |
| 90°-150°  | 2765.9 | 40.8      |
| 90°-180°  | 3676.0 | 54.2      |
| 0°-180°   | 6778.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 914  | 914   | 914  | 914   | 914  |      |
| 5°   | 917  | 913   | 905  | 913   | 912  | 87   |
| 15°  | 874  | 877   | 877  | 889   | 888  | 246  |
| 25°  | 795  | 804   | 816  | 832   | 836  | 366  |
| 35°  | 685  | 708   | 733  | 762   | 771  | 428  |
| 45°  | 562  | 598   | 644  | 685   | 698  | 434  |
| 55°  | 431  | 478   | 547  | 595   | 612  | 385  |
| 65°  | 294  | 359   | 437  | 492   | 509  | 292  |
| 75°  | 163  | 237   | 322  | 379   | 396  | 172  |
| 85°  | 48   | 130   | 215  | 270   | 289  | 50   |
| 90°  | 14   | 103   | 210  | 261   | 278  | 12   |
| 95°  | 62   | 134   | 216  | 266   | 280  | 66   |
| 105° | 220  | 261   | 332  | 381   | 395  | 233  |
| 115° | 402  | 423   | 480  | 519   | 531  | 397  |
| 125° | 580  | 589   | 628  | 661   | 672  | 519  |
| 135° | 748  | 759   | 775  | 802   | 809  | 579  |
| 145° | 907  | 914   | 920  | 929   | 932  | 567  |
| 155° | 1037 | 1040  | 1043 | 1048  | 1045 | 477  |
| 165° | 1128 | 1127  | 1127 | 1134  | 1129 | 318  |
| 175° | 1174 | 1171  | 1169 | 1176  | 1170 | 112  |
| 180° | 1176 | 1176  | 1176 | 1176  | 1176 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 914.1 | 914.1 | 914.1 | 914.1 | 914.1 |
| 2.5°   | 920.8 | 916.8 | 907.5 | 914.1 | 911.5 |
| 5°     | 916.8 | 912.8 | 904.9 | 912.8 | 911.5 |
| 7.5°   | 910.2 | 907.5 | 900.9 | 910.2 | 908.8 |
| 10°    | 902.2 | 899.6 | 895.6 | 906.2 | 904.9 |
| 12.5°  | 889.0 | 890.3 | 887.6 | 898.2 | 896.9 |
| 15°    | 874.4 | 877.0 | 877.0 | 889.0 | 887.6 |
| 17.5°  | 855.8 | 861.1 | 865.1 | 877.0 | 877.0 |
| 20°    | 837.3 | 843.9 | 849.2 | 863.8 | 863.8 |
| 22.5°  | 817.4 | 825.4 | 833.3 | 847.9 | 850.5 |
| 25°    | 794.9 | 804.2 | 816.1 | 832.0 | 836.0 |
| 27.5°  | 768.4 | 783.0 | 796.2 | 816.1 | 818.7 |
| 30°    | 741.9 | 759.1 | 776.3 | 797.5 | 801.5 |
| 32.5°  | 712.8 | 732.6 | 753.8 | 779.0 | 786.9 |
| 35°    | 684.9 | 707.5 | 732.6 | 761.8 | 771.0 |
| 37.5°  | 654.5 | 679.6 | 711.4 | 743.2 | 752.5 |
| 40°    | 624.0 | 653.1 | 688.9 | 723.4 | 735.3 |
| 42.5°  | 594.8 | 624.0 | 666.4 | 704.8 | 716.7 |
| 45°    | 561.7 | 597.5 | 643.9 | 684.9 | 698.2 |
| 47.5°  | 529.9 | 568.4 | 621.3 | 663.7 | 678.3 |
| 50°    | 496.8 | 537.9 | 597.5 | 642.5 | 657.1 |
| 52.5°  | 465.0 | 508.7 | 572.3 | 618.7 | 634.6 |
| 55°    | 430.6 | 478.3 | 547.2 | 594.8 | 612.1 |
| 57.5°  | 397.4 | 450.4 | 519.3 | 571.0 | 588.2 |
| 60°    | 361.7 | 418.6 | 494.2 | 544.5 | 563.1 |
| 62.5°  | 329.9 | 389.5 | 465.0 | 519.3 | 536.6 |
| 65°    | 294.1 | 359.0 | 437.2 | 491.5 | 508.7 |
| 67.5°  | 262.3 | 329.9 | 409.4 | 463.7 | 482.2 |
| 70°    | 227.9 | 296.8 | 378.9 | 435.9 | 451.8 |
| 72.5°  | 196.1 | 267.6 | 351.1 | 406.7 | 426.6 |
| 75°    | 163.0 | 237.1 | 321.9 | 378.9 | 396.1 |
| 77.5°  | 131.2 | 208.0 | 294.1 | 351.1 | 369.6 |
| 80°    | 99.4  | 180.2 | 266.3 | 321.9 | 340.5 |
| 82.5°  | 72.9  | 152.4 | 239.8 | 295.4 | 312.7 |
| 85°    | 47.7  | 129.8 | 214.6 | 270.3 | 288.8 |
| 87.5°  | 29.1  | 108.6 | 193.4 | 247.7 | 265.0 |
| 90°    | 14.2  | 103.0 | 209.6 | 260.6 | 277.5 |
| 92.5°  | 33.7  | 111.9 | 193.8 | 246.4 | 262.3 |
| 95°    | 62.2  | 134.4 | 215.9 | 266.2 | 280.1 |
| 97.5°  | 95.6  | 161.5 | 242.3 | 291.3 | 307.2 |
| 100°   | 135.3 | 192.3 | 269.4 | 318.4 | 332.1 |
| 102.5° | 175.6 | 225.4 | 300.8 | 349.5 | 363.1 |
| 105°   | 220.0 | 261.3 | 332.2 | 380.6 | 395.2 |
| 107.5° | 265.6 | 301.4 | 367.7 | 413.7 | 423.3 |
| 110°   | 308.0 | 340.4 | 405.3 | 447.7 | 459.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 355.6  | 382.7  | 442.7  | 482.1  | 494.7  |
| 115°   | 402.2  | 422.8  | 480.4  | 519.1  | 530.7  |
| 117.5° | 447.6  | 466.1  | 516.8  | 553.6  | 563.8  |
| 120°   | 494.2  | 507.5  | 552.5  | 589.6  | 601.1  |
| 122.5° | 536.9  | 548.1  | 592.1  | 625.0  | 634.9  |
| 125°   | 580.1  | 589.1  | 628.5  | 661.3  | 672.2  |
| 127.5° | 623.8  | 633.4  | 665.3  | 694.4  | 703.3  |
| 130°   | 664.5  | 676.1  | 701.9  | 731.7  | 738.4  |
| 132.5° | 710.1  | 718.8  | 739.7  | 765.2  | 772.8  |
| 135°   | 748.5  | 759.4  | 774.7  | 801.5  | 809.2  |
| 137.5° | 792.2  | 801.1  | 809.7  | 833.9  | 839.2  |
| 140°   | 830.9  | 838.5  | 846.1  | 867.3  | 871.3  |
| 142.5° | 870.6  | 878.2  | 881.2  | 898.1  | 900.7  |
| 145°   | 907.0  | 913.9  | 919.9  | 928.8  | 931.5  |
| 147.5° | 940.7  | 949.7  | 953.6  | 956.9  | 957.0  |
| 150°   | 975.5  | 981.4  | 985.4  | 988.4  | 985.4  |
| 152.5° | 1006.2 | 1012.2 | 1017.1 | 1021.1 | 1017.1 |
| 155°   | 1037.0 | 1040.0 | 1042.9 | 1047.9 | 1044.9 |
| 157.5° | 1063.8 | 1065.8 | 1067.8 | 1074.7 | 1069.7 |
| 160°   | 1087.6 | 1089.6 | 1090.6 | 1096.5 | 1092.6 |
| 162.5° | 1109.4 | 1109.4 | 1110.4 | 1117.4 | 1112.4 |
| 165°   | 1128.3 | 1127.3 | 1127.3 | 1134.2 | 1129.3 |
| 167.5° | 1145.2 | 1142.2 | 1142.2 | 1149.1 | 1144.2 |
| 170°   | 1158.1 | 1155.1 | 1154.1 | 1161.0 | 1155.1 |
| 172.5° | 1167.0 | 1164.0 | 1163.0 | 1170.0 | 1164.0 |
| 175°   | 1173.9 | 1171.0 | 1169.0 | 1175.9 | 1170.0 |
| 177.5° | 1177.9 | 1174.9 | 1172.9 | 1178.9 | 1172.9 |
| 180°   | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 |

(END OF REPORT)