

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: P999861

Luminaire Tested: SA2XXRDIP-B485D925UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P999861  
REPORT IS A COMBINATION OF REPORTS P988416 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-B485D925UB50-4F0-XX-W2A-F1  
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}  
{m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

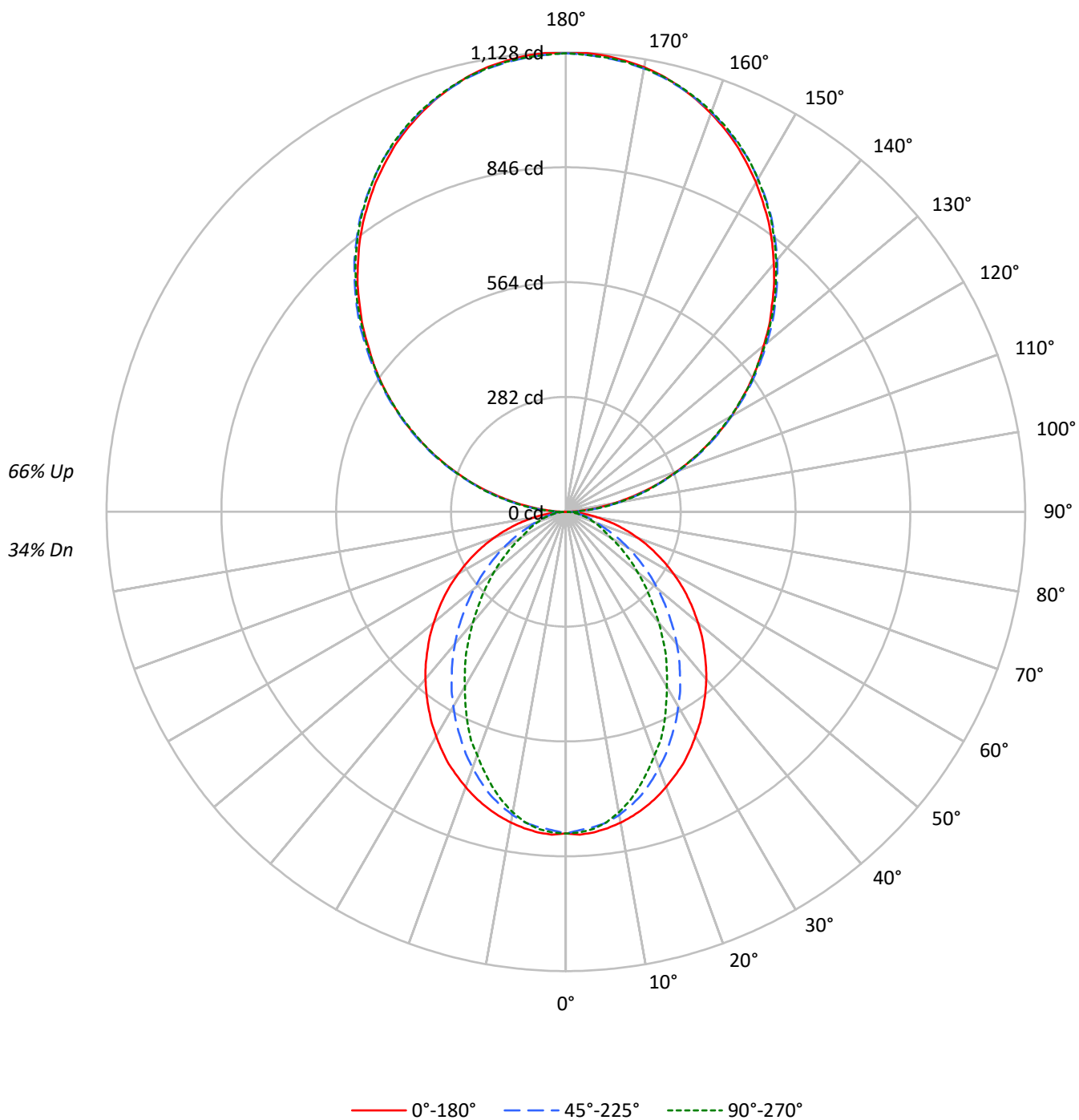
Lumens per Lamp: N/A  
Luminaire Lumens: 4776.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 52.5  
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 |    |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 42 | 42 | 42 |    |    | 34 |
| 1   | 95  | 90  | 87  | 83  | 85 | 82 | 79 | 76 | 66 | 64 | 62 | 51 | 49 | 48 | 37 | 36 | 36 |    |    | 29 |
| 2   | 86  | 79  | 74  | 69  | 78 | 72 | 67 | 63 | 58 | 54 | 52 | 45 | 43 | 41 | 33 | 32 | 30 |    |    | 25 |
| 3   | 79  | 70  | 63  | 57  | 71 | 63 | 58 | 53 | 51 | 47 | 44 | 40 | 37 | 35 | 30 | 28 | 26 |    |    | 22 |
| 4   | 72  | 62  | 55  | 49  | 65 | 56 | 50 | 45 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 |    |    | 19 |
| 5   | 66  | 55  | 48  | 42  | 60 | 50 | 44 | 39 | 41 | 36 | 32 | 32 | 29 | 26 | 24 | 22 | 20 |    |    | 17 |
| 6   | 61  | 50  | 42  | 36  | 55 | 45 | 39 | 34 | 37 | 32 | 28 | 29 | 26 | 23 | 22 | 20 | 18 |    |    | 15 |
| 7   | 57  | 45  | 37  | 32  | 51 | 41 | 34 | 30 | 34 | 29 | 25 | 27 | 23 | 20 | 20 | 18 | 16 |    |    | 13 |
| 8   | 52  | 41  | 33  | 28  | 47 | 37 | 31 | 26 | 31 | 26 | 22 | 24 | 21 | 18 | 19 | 16 | 14 |    |    | 12 |
| 9   | 49  | 37  | 30  | 25  | 44 | 34 | 28 | 23 | 28 | 23 | 20 | 22 | 19 | 16 | 17 | 15 | 13 |    |    | 11 |
| 10  | 46  | 34  | 27  | 22  | 41 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 15 | 16 | 14 | 12 |    |    | 10 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12507 | 12507 | 12507 |
| 5°  | 12527 | 11900 | 11810 |
| 10° | 12404 | 11285 | 10913 |
| 15° | 12233 | 10561 | 9890  |
| 20° | 12007 | 9738  | 8820  |
| 25° | 11778 | 8893  | 7840  |
| 30° | 11467 | 8069  | 6770  |
| 35° | 11163 | 7240  | 5852  |
| 40° | 10854 | 6424  | 4907  |
| 45° | 10494 | 5582  | 4082  |
| 50° | 10123 | 4772  | 3322  |
| 55° | 9737  | 3961  | 2638  |
| 60° | 9285  | 3168  | 1996  |
| 65° | 8770  | 2414  | 1623  |
| 70° | 8146  | 1751  | 1290  |
| 75° | 7362  | 1336  | 986   |
| 80° | 6219  | 904   | 662   |
| 85° | 4337  | 415   | 320   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10494 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.1   | 1.6       |
| 10°-20°   | 203.3  | 4.3       |
| 20°-30°   | 285.4  | 6.0       |
| 30°-40°   | 311.1  | 6.5       |
| 40°-50°   | 285.9  | 6.0       |
| 50°-60°   | 224.6  | 4.7       |
| 60°-70°   | 146.2  | 3.1       |
| 70°-80°   | 75.2   | 1.6       |
| 80°-90°   | 22.4   | 0.5       |
| 90°-100°  | 69.6   | 1.5       |
| 100°-110° | 221.4  | 4.6       |
| 110°-120° | 378.9  | 7.9       |
| 120°-130° | 498.3  | 10.4      |
| 130°-140° | 559.3  | 11.7      |
| 140°-150° | 548.5  | 11.5      |
| 150°-160° | 460.1  | 9.6       |
| 160°-170° | 305.1  | 6.4       |
| 170°-180° | 106.6  | 2.2       |
| 0°-30°    | 562.8  | 11.8      |
| 0°-40°    | 873.9  | 18.3      |
| 0°-60°    | 1384.4 | 29.0      |
| 0°-90°    | 1628.2 | 34.1      |
| 90°-120°  | 669.9  | 14.0      |
| 90°-150°  | 2276.0 | 47.7      |
| 90°-180°  | 3148.0 | 65.9      |
| 0°-180°   | 4776.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 790  | 790   | 790  | 790   | 790  |      |
| 5°   | 790  | 787   | 777  | 784   | 782  | 75   |
| 15°  | 752  | 744   | 719  | 706   | 699  | 212  |
| 25°  | 682  | 659   | 612  | 583   | 572  | 314  |
| 35°  | 588  | 551   | 488  | 443   | 428  | 368  |
| 45°  | 480  | 433   | 358  | 307   | 290  | 371  |
| 55°  | 365  | 310   | 232  | 190   | 176  | 326  |
| 65°  | 247  | 189   | 124  | 100   | 98   | 245  |
| 75°  | 132  | 82    | 57   | 52    | 52   | 139  |
| 85°  | 31   | 16    | 14   | 14    | 14   | 35   |
| 90°  | 1    | 12    | 33   | 31    | 32   | 5    |
| 95°  | 49   | 59    | 61   | 61    | 59   | 55   |
| 105° | 204  | 207   | 209  | 211   | 211  | 216  |
| 115° | 380  | 386   | 384  | 383   | 380  | 376  |
| 125° | 553  | 562   | 559  | 556   | 555  | 494  |
| 135° | 715  | 726   | 728  | 727   | 724  | 553  |
| 145° | 868  | 875   | 881  | 882   | 878  | 543  |
| 155° | 993  | 996   | 999  | 1003  | 1000 | 457  |
| 165° | 1080 | 1079  | 1079 | 1086  | 1081 | 305  |
| 175° | 1124 | 1121  | 1119 | 1126  | 1120 | 107  |
| 180° | 1126 | 1126  | 1126 | 1126  | 1126 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 790.1 | 790.1 | 790.1 | 790.1 | 790.1 |
| 2.5°   | 793.7 | 790.1 | 782.3 | 789.4 | 788.0 |
| 5°     | 790.1 | 786.6 | 777.3 | 783.7 | 781.5 |
| 7.5°   | 783.7 | 779.4 | 769.4 | 772.3 | 768.7 |
| 10°    | 775.1 | 770.1 | 755.8 | 753.7 | 749.4 |
| 12.5°  | 764.4 | 758.0 | 738.6 | 734.4 | 726.5 |
| 15°    | 751.5 | 743.6 | 719.3 | 705.8 | 698.6 |
| 17.5°  | 736.5 | 725.1 | 695.0 | 679.3 | 667.9 |
| 20°    | 719.3 | 705.0 | 669.3 | 651.4 | 635.7 |
| 22.5°  | 700.7 | 684.3 | 642.8 | 618.5 | 607.8 |
| 25°    | 682.2 | 659.3 | 612.1 | 582.8 | 572.0 |
| 27.5°  | 660.0 | 635.7 | 583.5 | 549.9 | 533.4 |
| 30°    | 636.4 | 609.2 | 552.0 | 515.5 | 496.2 |
| 32.5°  | 613.5 | 580.6 | 522.0 | 479.1 | 461.2 |
| 35°    | 587.8 | 551.3 | 488.4 | 443.3 | 427.6 |
| 37.5°  | 562.7 | 523.4 | 456.9 | 407.6 | 389.7 |
| 40°    | 536.3 | 493.4 | 424.0 | 373.3 | 354.7 |
| 42.5°  | 509.1 | 463.4 | 391.1 | 338.2 | 320.3 |
| 45°    | 480.5 | 432.6 | 357.5 | 306.8 | 289.6 |
| 47.5°  | 453.3 | 402.6 | 325.3 | 274.6 | 258.8 |
| 50°    | 423.3 | 372.5 | 293.9 | 244.5 | 229.5 |
| 52.5°  | 394.0 | 340.4 | 263.9 | 216.7 | 203.1 |
| 55°    | 365.4 | 309.6 | 232.4 | 189.5 | 175.9 |
| 57.5°  | 336.1 | 278.9 | 204.5 | 164.5 | 153.0 |
| 60°    | 306.0 | 248.8 | 175.2 | 138.7 | 127.3 |
| 62.5°  | 276.7 | 219.5 | 150.2 | 115.8 | 110.1 |
| 65°    | 246.7 | 188.8 | 124.4 | 100.1 | 98.0  |
| 67.5°  | 218.1 | 160.2 | 100.1 | 88.0  | 85.8  |
| 70°    | 188.1 | 132.3 | 82.9  | 75.8  | 72.9  |
| 72.5°  | 159.5 | 106.5 | 69.4  | 63.6  | 62.2  |
| 75°    | 131.6 | 81.5  | 57.2  | 52.2  | 51.5  |
| 77.5°  | 103.7 | 57.9  | 45.0  | 42.2  | 40.8  |
| 80°    | 77.9  | 41.5  | 34.3  | 31.5  | 31.5  |
| 82.5°  | 54.3  | 27.9  | 23.6  | 22.2  | 22.2  |
| 85°    | 30.7  | 15.7  | 13.6  | 13.6  | 13.6  |
| 87.5°  | 11.4  | 5.7   | 5.7   | 5.0   | 5.0   |
| 90°    | 1.0   | 12.4  | 33.3  | 31.4  | 32.3  |
| 92.5°  | 20.9  | 28.5  | 29.5  | 30.4  | 30.4  |
| 95°    | 49.4  | 58.9  | 60.8  | 60.8  | 58.9  |
| 97.5°  | 82.7  | 91.2  | 95.0  | 95.0  | 95.0  |
| 100°   | 120.7 | 128.3 | 131.1 | 131.1 | 130.2 |
| 102.5° | 160.6 | 166.3 | 170.1 | 171.0 | 170.1 |
| 105°   | 204.3 | 207.1 | 209.0 | 210.9 | 210.9 |
| 107.5° | 248.0 | 251.8 | 251.8 | 252.7 | 248.0 |
| 110°   | 289.8 | 295.5 | 295.5 | 295.5 | 292.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 335.4  | 341.1  | 340.1  | 337.3  | 335.4  |
| 115°   | 380.0  | 385.8  | 383.9  | 382.9  | 380.0  |
| 117.5° | 424.7  | 432.3  | 427.6  | 424.7  | 421.9  |
| 120°   | 469.4  | 477.0  | 469.4  | 469.4  | 466.5  |
| 122.5° | 510.2  | 519.7  | 515.0  | 512.1  | 510.2  |
| 125°   | 553.0  | 561.5  | 558.7  | 555.8  | 554.9  |
| 127.5° | 594.8  | 605.2  | 601.4  | 597.6  | 594.8  |
| 130°   | 633.7  | 646.1  | 644.2  | 642.3  | 638.5  |
| 132.5° | 677.4  | 686.9  | 687.9  | 683.1  | 680.3  |
| 135°   | 715.4  | 725.9  | 727.8  | 726.8  | 724.0  |
| 137.5° | 757.2  | 765.8  | 767.7  | 766.8  | 762.9  |
| 140°   | 794.3  | 802.9  | 807.6  | 807.6  | 803.8  |
| 142.5° | 832.3  | 840.9  | 843.7  | 844.7  | 840.9  |
| 145°   | 868.4  | 875.1  | 880.8  | 881.7  | 877.9  |
| 147.5° | 900.7  | 909.3  | 913.1  | 915.0  | 911.2  |
| 150°   | 934.0  | 939.7  | 943.5  | 946.3  | 943.5  |
| 152.5° | 963.4  | 969.1  | 973.9  | 977.7  | 973.9  |
| 155°   | 992.9  | 995.7  | 998.6  | 1003.3 | 1000.5 |
| 157.5° | 1018.5 | 1020.4 | 1022.3 | 1029.0 | 1024.2 |
| 160°   | 1041.3 | 1043.2 | 1044.2 | 1049.9 | 1046.1 |
| 162.5° | 1062.2 | 1062.2 | 1063.2 | 1069.8 | 1065.1 |
| 165°   | 1080.3 | 1079.3 | 1079.3 | 1086.0 | 1081.2 |
| 167.5° | 1096.4 | 1093.6 | 1093.6 | 1100.2 | 1095.5 |
| 170°   | 1108.8 | 1105.9 | 1105.0 | 1111.6 | 1105.9 |
| 172.5° | 1117.3 | 1114.5 | 1113.5 | 1120.2 | 1114.5 |
| 175°   | 1124.0 | 1121.1 | 1119.2 | 1125.9 | 1120.2 |
| 177.5° | 1127.8 | 1124.9 | 1123.0 | 1128.7 | 1123.0 |
| 180°   | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 |

(END OF REPORT)