

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: P1001811

Luminaire Tested: SA4XXDIP-B795D1205UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001811  
REPORT IS A COMBINATION OF REPORTS P996433 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B795D1205UB50-4F0-XX-W2A-D  
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

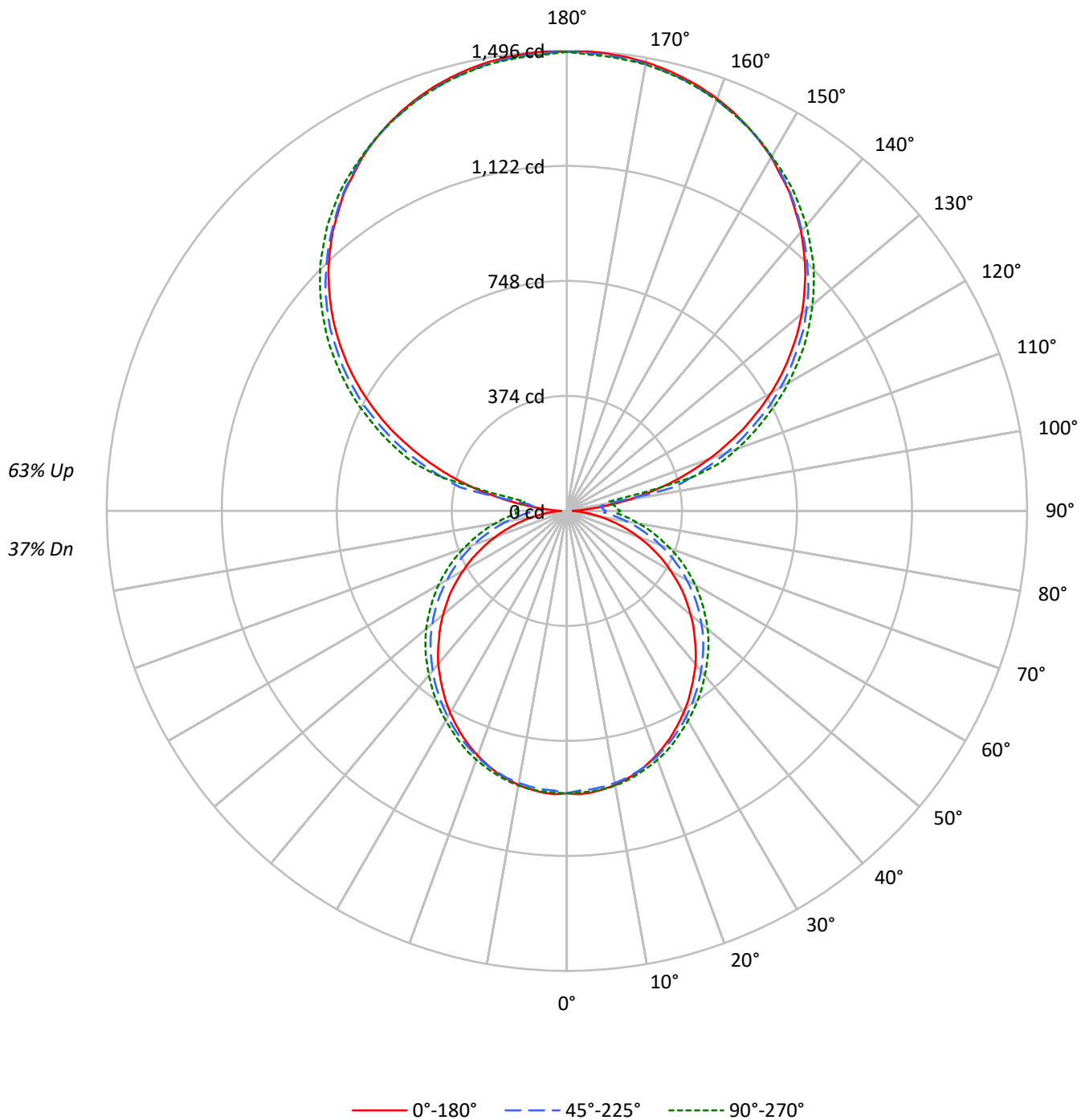
Lumens per Lamp: N/A  
Luminaire Lumens: 7752.0 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 70.9  
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 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 60 | 60 | 60 | 45 | 45 | 45 |
| 1   | 94  | 90  | 86  | 82  | 85 | 81 | 78 | 75 | 66 | 63 | 61 | 51 | 50 | 48 | 38 | 37 | 36 |
| 2   | 85  | 78  | 71  | 66  | 77 | 71 | 65 | 61 | 57 | 53 | 50 | 45 | 42 | 40 | 33 | 31 | 30 |
| 3   | 78  | 68  | 61  | 55  | 70 | 62 | 55 | 50 | 50 | 45 | 41 | 39 | 36 | 33 | 29 | 27 | 25 |
| 4   | 71  | 60  | 52  | 46  | 64 | 55 | 48 | 42 | 44 | 39 | 35 | 35 | 31 | 28 | 26 | 23 | 21 |
| 5   | 65  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 34 | 30 | 31 | 27 | 24 | 23 | 20 | 18 |
| 6   | 60  | 48  | 39  | 34  | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 |
| 7   | 55  | 43  | 35  | 29  | 50 | 39 | 32 | 27 | 32 | 27 | 23 | 25 | 21 | 18 | 19 | 16 | 14 |
| 8   | 51  | 39  | 31  | 26  | 46 | 35 | 29 | 24 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 15 | 13 |
| 9   | 47  | 35  | 28  | 23  | 43 | 32 | 26 | 21 | 27 | 21 | 18 | 21 | 17 | 15 | 16 | 13 | 11 |
| 10  | 44  | 32  | 25  | 20  | 40 | 29 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 | 15 | 12 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7486 | 7486 | 7486 |
| 5°  | 7507 | 7291 | 7304 |
| 10° | 7458 | 7147 | 7127 |
| 15° | 7388 | 6986 | 6927 |
| 20° | 7285 | 6812 | 6733 |
| 25° | 7168 | 6619 | 6524 |
| 30° | 7042 | 6428 | 6311 |
| 35° | 6899 | 6234 | 6121 |
| 40° | 6785 | 6046 | 5924 |
| 45° | 6616 | 5870 | 5750 |
| 50° | 6471 | 5671 | 5567 |
| 55° | 6323 | 5478 | 5355 |
| 60° | 6090 | 5239 | 5157 |
| 65° | 5836 | 4980 | 4918 |
| 70° | 5528 | 4686 | 4641 |
| 75° | 5095 | 4357 | 4378 |
| 80° | 4611 | 4024 | 4103 |
| 85° | 3966 | 3687 | 3878 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6616 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.0   | 1.1       |
| 10°-20°   | 249.2  | 3.2       |
| 20°-30°   | 376.8  | 4.9       |
| 30°-40°   | 455.9  | 5.9       |
| 40°-50°   | 482.0  | 6.2       |
| 50°-60°   | 453.6  | 5.9       |
| 60°-70°   | 376.4  | 4.9       |
| 70°-80°   | 264.1  | 3.4       |
| 80°-90°   | 152.0  | 2.0       |
| 90°-100°  | 138.2  | 1.8       |
| 100°-110° | 392.0  | 5.1       |
| 110°-120° | 667.2  | 8.6       |
| 120°-130° | 815.8  | 10.5      |
| 130°-140° | 857.0  | 11.1      |
| 140°-150° | 793.4  | 10.2      |
| 150°-160° | 638.1  | 8.2       |
| 160°-170° | 411.5  | 5.3       |
| 170°-180° | 141.8  | 1.8       |
| 0°-30°    | 713.1  | 9.2       |
| 0°-40°    | 1169.0 | 15.1      |
| 0°-60°    | 2104.5 | 27.1      |
| 0°-90°    | 2897.0 | 37.4      |
| 90°-120°  | 1197.3 | 15.4      |
| 90°-150°  | 3663.5 | 47.3      |
| 90°-180°  | 4855.0 | 62.6      |
| 0°-180°   | 7752.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 918  | 918   | 918  | 918   | 918  |      |
| 5°   | 919  | 916   | 909  | 917   | 916  | 87   |
| 15°  | 881  | 882   | 879  | 888   | 887  | 248  |
| 25°  | 806  | 812   | 815  | 827   | 828  | 371  |
| 35°  | 705  | 718   | 728  | 742   | 745  | 442  |
| 45°  | 588  | 608   | 627  | 645   | 650  | 454  |
| 55°  | 461  | 482   | 513  | 534   | 540  | 410  |
| 65°  | 319  | 352   | 386  | 412   | 420  | 316  |
| 75°  | 177  | 215   | 258  | 287   | 296  | 188  |
| 85°  | 54   | 98    | 144  | 175   | 185  | 57   |
| 90°  | 20   | 73    | 126  | 163   | 173  | 14   |
| 95°  | 75   | 71    | 114  | 148   | 159  | 86   |
| 105° | 345  | 372   | 416  | 452   | 420  | 362  |
| 115° | 634  | 646   | 678  | 703   | 710  | 624  |
| 125° | 886  | 890   | 913  | 936   | 943  | 792  |
| 135° | 1096 | 1095  | 1107 | 1125  | 1134 | 845  |
| 145° | 1263 | 1265  | 1265 | 1272  | 1279 | 789  |
| 155° | 1383 | 1384  | 1381 | 1386  | 1382 | 638  |
| 165° | 1459 | 1454  | 1454 | 1462  | 1452 | 412  |
| 175° | 1493 | 1486  | 1487 | 1497  | 1484 | 142  |
| 180° | 1493 | 1493  | 1493 | 1493  | 1493 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 918.0 | 918.0 | 918.0 | 918.0 | 918.0 |
| 2.5°   | 922.2 | 919.1 | 910.9 | 918.0 | 917.0 |
| 5°     | 919.1 | 916.0 | 908.8 | 917.0 | 916.0 |
| 7.5°   | 912.9 | 910.9 | 904.7 | 913.9 | 912.9 |
| 10°    | 904.7 | 903.7 | 898.5 | 907.8 | 906.7 |
| 12.5°  | 893.4 | 893.4 | 890.3 | 898.5 | 898.5 |
| 15°    | 881.0 | 882.1 | 879.0 | 888.2 | 887.2 |
| 17.5°  | 864.6 | 867.7 | 866.6 | 875.9 | 874.9 |
| 20°    | 847.1 | 850.2 | 851.2 | 861.5 | 861.5 |
| 22.5°  | 827.6 | 831.7 | 833.7 | 844.0 | 846.1 |
| 25°    | 806.0 | 812.2 | 815.2 | 826.6 | 827.6 |
| 27.5°  | 782.3 | 791.6 | 795.7 | 806.0 | 807.0 |
| 30°    | 758.7 | 766.9 | 774.1 | 785.4 | 787.5 |
| 32.5°  | 733.0 | 743.3 | 751.5 | 764.9 | 766.9 |
| 35°    | 705.2 | 717.6 | 727.9 | 742.3 | 745.3 |
| 37.5°  | 677.5 | 691.9 | 704.2 | 718.6 | 721.7 |
| 40°    | 650.8 | 664.1 | 678.5 | 693.9 | 698.0 |
| 42.5°  | 619.9 | 635.3 | 652.8 | 670.3 | 673.4 |
| 45°    | 588.0 | 607.6 | 627.1 | 644.6 | 649.7 |
| 47.5°  | 558.2 | 577.8 | 600.4 | 617.9 | 624.0 |
| 50°    | 525.3 | 547.9 | 570.6 | 591.1 | 597.3 |
| 52.5°  | 492.4 | 515.1 | 541.8 | 562.3 | 568.5 |
| 55°    | 460.6 | 482.2 | 513.0 | 533.6 | 539.7 |
| 57.5°  | 424.6 | 451.3 | 481.1 | 505.8 | 510.9 |
| 60°    | 389.6 | 416.4 | 450.3 | 473.9 | 482.2 |
| 62.5°  | 355.7 | 385.5 | 419.4 | 443.1 | 451.3 |
| 65°    | 318.7 | 351.6 | 386.5 | 412.2 | 420.5 |
| 67.5°  | 283.7 | 318.7 | 355.7 | 381.4 | 389.6 |
| 70°    | 247.8 | 282.7 | 321.8 | 349.5 | 356.7 |
| 72.5°  | 212.8 | 248.8 | 290.9 | 317.7 | 325.9 |
| 75°    | 176.8 | 214.9 | 258.0 | 286.8 | 296.1 |
| 77.5°  | 142.9 | 183.0 | 228.2 | 257.0 | 267.3 |
| 80°    | 112.1 | 153.2 | 198.4 | 229.3 | 237.5 |
| 82.5°  | 81.2  | 124.4 | 169.6 | 201.5 | 210.7 |
| 85°    | 54.5  | 97.7  | 143.9 | 174.8 | 185.0 |
| 87.5°  | 33.9  | 76.1  | 121.3 | 151.1 | 160.4 |
| 90°    | 19.7  | 73.2  | 126.4 | 162.9 | 173.3 |
| 92.5°  | 32.1  | 65.9  | 119.0 | 154.5 | 162.7 |
| 95°    | 74.8  | 70.7  | 114.0 | 148.5 | 158.8 |
| 97.5°  | 129.5 | 183.9 | 108.9 | 141.1 | 151.6 |
| 100°   | 194.4 | 241.2 | 127.2 | 136.0 | 144.4 |
| 102.5° | 268.1 | 304.1 | 356.6 | 132.1 | 140.3 |
| 105°   | 345.4 | 372.5 | 416.2 | 452.0 | 420.0 |
| 107.5° | 417.9 | 438.7 | 482.5 | 513.8 | 525.4 |
| 110°   | 490.5 | 508.3 | 551.0 | 576.8 | 588.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 561.0  | 580.0  | 616.2  | 637.7  | 650.3  |
| 115°   | 633.6  | 646.2  | 678.0  | 702.8  | 710.0  |
| 117.5° | 699.5  | 710.1  | 744.3  | 764.8  | 773.0  |
| 120°   | 765.4  | 773.0  | 801.7  | 824.5  | 830.5  |
| 122.5° | 827.9  | 830.2  | 860.2  | 881.9  | 886.9  |
| 125°   | 886.1  | 889.6  | 913.0  | 935.9  | 943.2  |
| 127.5° | 943.0  | 943.2  | 969.2  | 986.6  | 992.7  |
| 130°   | 996.7  | 996.9  | 1016.6 | 1036.2 | 1042.4 |
| 132.5° | 1047.0 | 1048.2 | 1065.0 | 1083.6 | 1088.6 |
| 135°   | 1096.2 | 1095.1 | 1106.8 | 1125.4 | 1133.8 |
| 137.5° | 1140.9 | 1139.8 | 1149.5 | 1167.2 | 1171.2 |
| 140°   | 1184.4 | 1185.6 | 1188.9 | 1205.5 | 1211.9 |
| 142.5° | 1222.4 | 1226.9 | 1227.0 | 1240.5 | 1244.6 |
| 145°   | 1262.6 | 1264.9 | 1264.9 | 1272.3 | 1278.6 |
| 147.5° | 1293.8 | 1299.5 | 1298.4 | 1300.5 | 1305.8 |
| 150°   | 1328.5 | 1331.9 | 1330.8 | 1330.8 | 1331.9 |
| 152.5° | 1356.5 | 1359.8 | 1357.6 | 1359.8 | 1358.7 |
| 155°   | 1383.3 | 1384.4 | 1381.0 | 1385.5 | 1382.2 |
| 157.5° | 1406.7 | 1406.7 | 1402.3 | 1407.8 | 1402.3 |
| 160°   | 1426.8 | 1423.5 | 1422.4 | 1429.1 | 1422.4 |
| 162.5° | 1444.7 | 1440.2 | 1439.1 | 1445.8 | 1438.0 |
| 165°   | 1459.2 | 1453.6 | 1453.6 | 1462.5 | 1452.5 |
| 167.5° | 1471.5 | 1465.9 | 1464.8 | 1474.8 | 1463.7 |
| 170°   | 1481.5 | 1474.8 | 1475.9 | 1484.9 | 1473.7 |
| 172.5° | 1488.2 | 1481.5 | 1482.6 | 1491.6 | 1479.3 |
| 175°   | 1492.7 | 1486.0 | 1487.1 | 1497.2 | 1483.8 |
| 177.5° | 1496.0 | 1488.2 | 1490.5 | 1499.4 | 1486.0 |
| 180°   | 1492.7 | 1492.7 | 1492.7 | 1492.7 | 1492.7 |

(END OF REPORT)