

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: P1001814

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

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001814  
REPORT IS A COMBINATION OF REPORTS P996436 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-F  
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

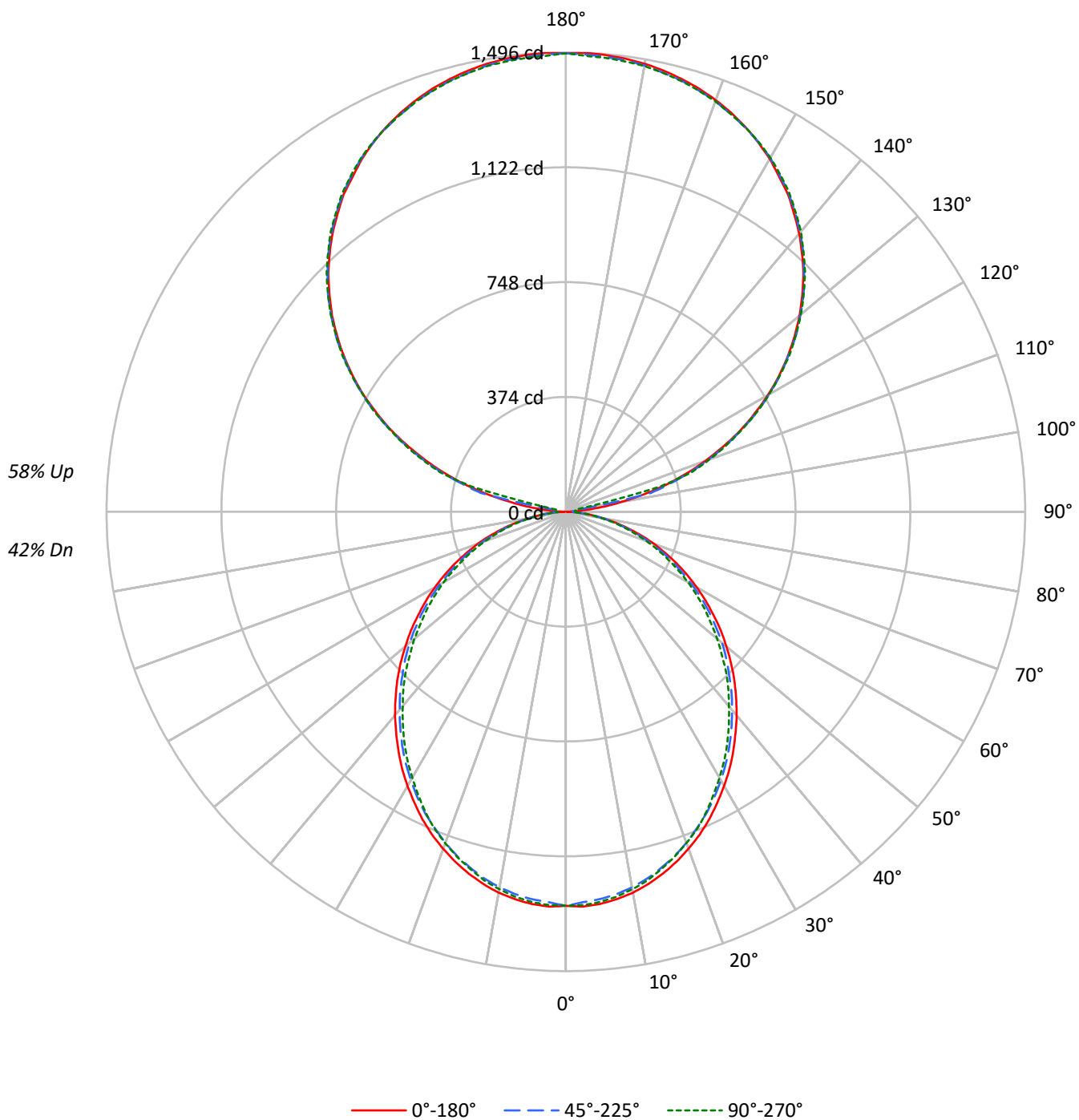
Lumens per Lamp: N/A  
Luminaire Lumens: 7915.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 63 | 63 | 63 | 48 | 48 | 48 |
| 1   | 96  | 92  | 88  | 84  | 87 | 84 | 80 | 77 | 69 | 67 | 64 | 55 | 54 | 52 | 43 | 42 | 41 |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 64 | 60 | 57 | 53 | 49 | 46 | 44 | 38 | 36 | 34 |
| 3   | 80  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 49 | 45 | 43 | 40 | 37 | 33 | 31 | 29 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 35 | 32 | 30 | 27 | 25 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 38 | 42 | 37 | 33 | 34 | 30 | 27 | 27 | 24 | 22 |
| 6   | 61  | 50  | 42  | 36  | 56 | 46 | 38 | 33 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 |
| 8   | 53  | 40  | 33  | 28  | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 20 | 17 | 15 |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 27 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 26 | 21 | 18 | 22 | 18 | 15 | 17 | 15 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10462 | 10462 | 10462 |
| 5°  | 10470 | 10161 | 10174 |
| 10° | 10382 | 9879  | 9810  |
| 15° | 10233 | 9543  | 9399  |
| 20° | 10043 | 9181  | 8975  |
| 25° | 9829  | 8797  | 8518  |
| 30° | 9571  | 8383  | 8016  |
| 35° | 9303  | 7958  | 7531  |
| 40° | 9025  | 7503  | 7014  |
| 45° | 8733  | 7044  | 6532  |
| 50° | 8409  | 6600  | 5998  |
| 55° | 8058  | 6082  | 5467  |
| 60° | 7697  | 5514  | 4915  |
| 65° | 7285  | 4927  | 4292  |
| 70° | 6811  | 4222  | 3625  |
| 75° | 6104  | 3403  | 2904  |
| 80° | 5199  | 2460  | 2042  |
| 85° | 4039  | 1371  | 1098  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8733 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.9  | 1.5       |
| 10°-20°   | 340.7  | 4.3       |
| 20°-30°   | 501.4  | 6.3       |
| 30°-40°   | 582.8  | 7.4       |
| 40°-50°   | 582.8  | 7.4       |
| 50°-60°   | 509.7  | 6.4       |
| 60°-70°   | 378.4  | 4.8       |
| 70°-80°   | 214.7  | 2.7       |
| 80°-90°   | 64.6   | 0.8       |
| 90°-100°  | 49.5   | 0.6       |
| 100°-110° | 326.3  | 4.1       |
| 110°-120° | 623.1  | 7.9       |
| 120°-130° | 791.0  | 10.0      |
| 130°-140° | 846.2  | 10.7      |
| 140°-150° | 791.3  | 10.0      |
| 150°-160° | 638.1  | 8.1       |
| 160°-170° | 411.5  | 5.2       |
| 170°-180° | 141.8  | 1.8       |
| 0°-30°    | 963.0  | 12.2      |
| 0°-40°    | 1545.9 | 19.5      |
| 0°-60°    | 2638.4 | 33.3      |
| 0°-90°    | 3296.1 | 41.6      |
| 90°-120°  | 999.0  | 12.6      |
| 90°-150°  | 3427.5 | 43.3      |
| 90°-180°  | 4619.0 | 58.4      |
| 0°-180°   | 7915.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1283 | 1283  | 1283 | 1283  | 1283 |      |
| 5°   | 1282 | 1278  | 1266 | 1278  | 1276 | 122  |
| 15°  | 1220 | 1216  | 1201 | 1207  | 1204 | 344  |
| 25°  | 1105 | 1098  | 1084 | 1085  | 1080 | 509  |
| 35°  | 951  | 944   | 929  | 922   | 917  | 595  |
| 45°  | 776  | 769   | 752  | 741   | 738  | 598  |
| 55°  | 587  | 584   | 570  | 557   | 551  | 526  |
| 65°  | 398  | 393   | 382  | 372   | 367  | 394  |
| 75°  | 212  | 207   | 202  | 197   | 196  | 225  |
| 85°  | 56   | 56    | 54   | 54    | 52   | 60   |
| 90°  | 3    | 16    | 25   | 31    | 34   | 7    |
| 95°  | 61   | 23    | 25   | 31    | 32   | 76   |
| 105° | 336  | 343   | 348  | 358   | 318  | 352  |
| 115° | 627  | 631   | 630  | 632   | 632  | 618  |
| 125° | 882  | 886   | 884  | 888   | 889  | 788  |
| 135° | 1094 | 1093  | 1098 | 1100  | 1102 | 843  |
| 145° | 1262 | 1265  | 1265 | 1266  | 1268 | 788  |
| 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°     | 1283.0 | 1283.0 | 1283.0 | 1283.0 | 1283.0 |
| 2.5°   | 1287.1 | 1284.0 | 1272.7 | 1283.0 | 1281.9 |
| 5°     | 1281.9 | 1277.8 | 1266.5 | 1277.8 | 1275.8 |
| 7.5°   | 1272.7 | 1268.6 | 1256.2 | 1265.5 | 1264.5 |
| 10°    | 1259.3 | 1255.2 | 1241.9 | 1250.1 | 1248.0 |
| 12.5°  | 1241.9 | 1237.7 | 1223.3 | 1232.6 | 1229.5 |
| 15°    | 1220.3 | 1216.2 | 1200.7 | 1206.9 | 1203.8 |
| 17.5°  | 1195.6 | 1190.5 | 1176.1 | 1180.2 | 1178.1 |
| 20°    | 1167.8 | 1162.7 | 1147.3 | 1150.4 | 1148.3 |
| 22.5°  | 1138.0 | 1130.8 | 1115.4 | 1121.6 | 1117.5 |
| 25°    | 1105.1 | 1097.9 | 1083.5 | 1084.6 | 1080.5 |
| 27.5°  | 1068.1 | 1060.9 | 1047.6 | 1045.5 | 1040.4 |
| 30°    | 1031.1 | 1022.9 | 1009.5 | 1005.4 | 1000.3 |
| 32.5°  | 992.0  | 984.8  | 970.5  | 965.3  | 960.2  |
| 35°    | 950.9  | 943.7  | 929.3  | 922.1  | 917.0  |
| 37.5°  | 907.7  | 901.6  | 886.2  | 879.0  | 871.8  |
| 40°    | 865.6  | 857.4  | 842.0  | 831.7  | 826.5  |
| 42.5°  | 820.4  | 816.3  | 798.8  | 786.4  | 783.4  |
| 45°    | 776.2  | 769.0  | 752.5  | 741.2  | 738.1  |
| 47.5°  | 729.9  | 724.8  | 709.3  | 697.0  | 688.8  |
| 50°    | 682.6  | 678.5  | 664.1  | 649.7  | 643.5  |
| 52.5°  | 636.3  | 631.2  | 615.8  | 603.4  | 595.2  |
| 55°    | 587.0  | 583.9  | 569.5  | 557.2  | 551.0  |
| 57.5°  | 540.7  | 537.7  | 523.3  | 510.9  | 504.8  |
| 60°    | 492.4  | 487.3  | 473.9  | 464.7  | 459.5  |
| 62.5°  | 445.1  | 441.0  | 426.6  | 418.4  | 413.3  |
| 65°    | 397.8  | 392.7  | 382.4  | 372.1  | 367.0  |
| 67.5°  | 349.5  | 345.4  | 335.1  | 324.9  | 323.8  |
| 70°    | 305.3  | 298.1  | 289.9  | 281.7  | 278.6  |
| 72.5°  | 258.0  | 250.8  | 244.7  | 238.5  | 235.4  |
| 75°    | 211.8  | 206.6  | 201.5  | 197.4  | 196.4  |
| 77.5°  | 166.5  | 164.5  | 159.3  | 158.3  | 155.2  |
| 80°    | 126.4  | 123.4  | 121.3  | 119.3  | 118.2  |
| 82.5°  | 87.4   | 86.4   | 86.4   | 85.3   | 84.3   |
| 85°    | 55.5   | 55.5   | 53.5   | 53.5   | 52.4   |
| 87.5°  | 26.7   | 25.7   | 24.7   | 24.7   | 24.7   |
| 90°    | 3.3    | 15.6   | 24.6   | 31.3   | 33.5   |
| 92.5°  | 16.7   | 14.5   | 23.4   | 30.1   | 30.1   |
| 95°    | 61.4   | 23.4   | 24.6   | 31.3   | 32.4   |
| 97.5°  | 117.2  | 141.8  | 24.6   | 30.1   | 31.3   |
| 100°   | 183.1  | 203.2  | 49.1   | 30.1   | 31.3   |
| 102.5° | 256.8  | 270.2  | 283.6  | 32.4   | 32.4   |
| 105°   | 336.1  | 342.7  | 348.3  | 358.4  | 318.2  |
| 107.5° | 408.6  | 412.0  | 419.8  | 425.4  | 429.8  |
| 110°   | 482.3  | 485.7  | 492.4  | 494.6  | 497.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 553.8  | 560.5  | 562.7  | 561.6  | 566.0  |
| 115°   | 627.4  | 630.8  | 629.7  | 631.9  | 631.9  |
| 117.5° | 693.3  | 697.8  | 701.1  | 700.0  | 700.0  |
| 120°   | 760.3  | 764.8  | 763.7  | 765.9  | 763.7  |
| 122.5° | 822.8  | 825.1  | 827.3  | 828.4  | 826.2  |
| 125°   | 882.0  | 886.5  | 884.2  | 887.6  | 888.7  |
| 127.5° | 938.9  | 940.1  | 945.6  | 944.5  | 943.4  |
| 130°   | 993.6  | 994.8  | 998.1  | 999.2  | 999.2  |
| 132.5° | 1043.9 | 1046.1 | 1050.6 | 1051.7 | 1050.6 |
| 135°   | 1094.1 | 1093.0 | 1097.5 | 1099.7 | 1101.9 |
| 137.5° | 1138.8 | 1138.8 | 1144.4 | 1146.6 | 1145.5 |
| 140°   | 1182.3 | 1184.6 | 1186.8 | 1190.1 | 1191.3 |
| 142.5° | 1221.4 | 1225.9 | 1227.0 | 1229.2 | 1229.2 |
| 145°   | 1261.6 | 1264.9 | 1264.9 | 1266.1 | 1268.3 |
| 147.5° | 1292.8 | 1299.5 | 1298.4 | 1299.5 | 1300.7 |
| 150°   | 1327.5 | 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)