

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: P1000833

Luminaire Tested: SA4XXDIP-B1195D1035UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1000833  
REPORT IS A COMBINATION OF REPORTS P995446 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B1195D1035UB30-4F0-XX-W2A-D  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

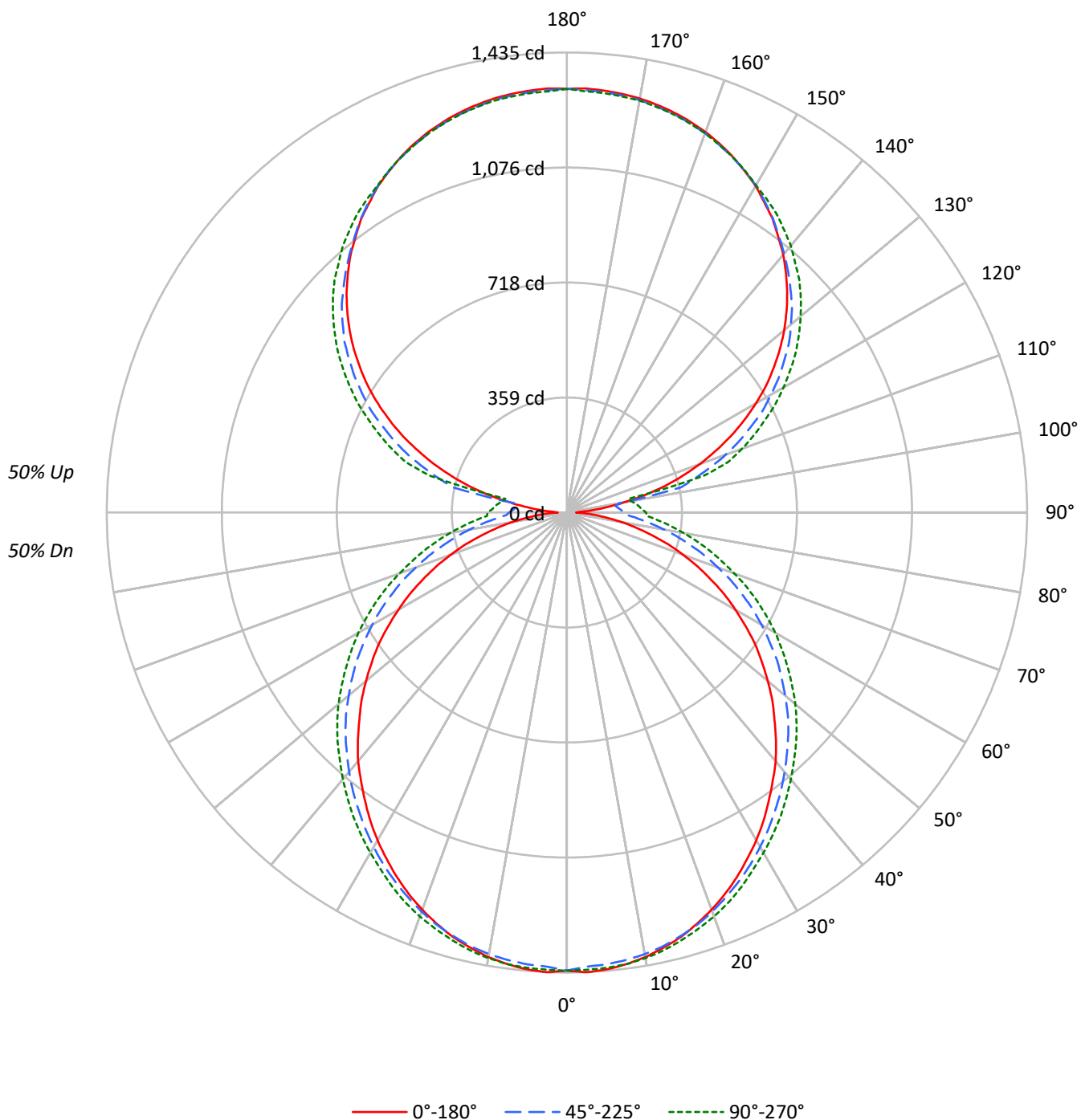
Lumens per Lamp: N/A  
Luminaire Lumens: 8963.0 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 89.8  
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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 56 | 56 | 56 |
| 1   | 97  | 92  | 88  | 84  | 89 | 85 | 81 | 78 | 72 | 69 | 66 | 59 | 58 | 56 | 48 | 47 | 46 | 46 | 46 | 40 |
| 2   | 88  | 80  | 73  | 68  | 81 | 74 | 68 | 63 | 62 | 58 | 54 | 52 | 48 | 46 | 42 | 40 | 38 | 38 | 38 | 33 |
| 3   | 80  | 70  | 62  | 56  | 73 | 64 | 58 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 37 | 34 | 32 | 32 | 32 | 27 |
| 4   | 73  | 62  | 53  | 47  | 67 | 57 | 50 | 44 | 48 | 43 | 38 | 40 | 36 | 32 | 33 | 29 | 27 | 27 | 27 | 23 |
| 5   | 67  | 55  | 46  | 40  | 61 | 51 | 43 | 37 | 43 | 37 | 33 | 36 | 31 | 28 | 29 | 26 | 23 | 23 | 23 | 20 |
| 6   | 61  | 49  | 41  | 34  | 56 | 45 | 38 | 32 | 39 | 33 | 28 | 32 | 28 | 24 | 26 | 23 | 20 | 20 | 20 | 17 |
| 7   | 57  | 44  | 36  | 30  | 52 | 41 | 34 | 28 | 35 | 29 | 25 | 29 | 25 | 21 | 24 | 21 | 18 | 18 | 18 | 15 |
| 8   | 53  | 40  | 32  | 27  | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 19 | 16 | 16 | 16 | 14 |
| 9   | 49  | 36  | 29  | 24  | 45 | 34 | 27 | 22 | 29 | 23 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 14 | 14 | 12 |
| 10  | 46  | 33  | 26  | 21  | 42 | 31 | 24 | 20 | 27 | 21 | 18 | 23 | 18 | 15 | 19 | 15 | 13 | 13 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11653 | 11653 | 11653 |
| 5°  | 11685 | 11349 | 11370 |
| 10° | 11609 | 11126 | 11094 |
| 15° | 11501 | 10875 | 10783 |
| 20° | 11339 | 10603 | 10481 |
| 25° | 11158 | 10303 | 10156 |
| 30° | 10962 | 10006 | 9823  |
| 35° | 10739 | 9702  | 9528  |
| 40° | 10561 | 9411  | 9221  |
| 45° | 10298 | 9137  | 8950  |
| 50° | 10073 | 8827  | 8665  |
| 55° | 9841  | 8527  | 8336  |
| 60° | 9481  | 8155  | 8027  |
| 65° | 9085  | 7753  | 7654  |
| 70° | 8605  | 7294  | 7225  |
| 75° | 7931  | 6784  | 6815  |
| 80° | 7173  | 6263  | 6384  |
| 85° | 6171  | 5740  | 6037  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10298 cd/sqm

TEST NUMBER: P1000833

CATALOG NUMBER: SA4XXDIP-B1195D1035UB30-4F0-XX-W2A-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 135.4  | 1.5       |
| 10°-20°   | 387.9  | 4.3       |
| 20°-30°   | 586.6  | 6.5       |
| 30°-40°   | 709.6  | 7.9       |
| 40°-50°   | 750.2  | 8.4       |
| 50°-60°   | 706.0  | 7.9       |
| 60°-70°   | 585.9  | 6.5       |
| 70°-80°   | 411.1  | 4.6       |
| 80°-90°   | 234.5  | 2.6       |
| 90°-100°  | 181.8  | 2.0       |
| 100°-110° | 391.0  | 4.4       |
| 110°-120° | 620.1  | 6.9       |
| 120°-130° | 738.8  | 8.2       |
| 130°-140° | 765.7  | 8.5       |
| 140°-150° | 703.7  | 7.9       |
| 150°-160° | 564.8  | 6.3       |
| 160°-170° | 364.2  | 4.1       |
| 170°-180° | 125.5  | 1.4       |
| 0°-30°    | 1109.9 | 12.4      |
| 0°-40°    | 1819.6 | 20.3      |
| 0°-60°    | 3275.8 | 36.5      |
| 0°-90°    | 4507.3 | 50.3      |
| 90°-120°  | 1192.9 | 13.3      |
| 90°-150°  | 3401.0 | 37.9      |
| 90°-180°  | 4456.0 | 49.7      |
| 0°-180°   | 8963.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1429 | 1429  | 1429 | 1429  | 1429 |      |
| 5°   | 1431 | 1426  | 1415 | 1427  | 1426 | 136  |
| 15°  | 1371 | 1373  | 1368 | 1383  | 1381 | 386  |
| 25°  | 1255 | 1264  | 1269 | 1287  | 1288 | 578  |
| 35°  | 1098 | 1117  | 1133 | 1155  | 1160 | 687  |
| 45°  | 915  | 946   | 976  | 1003  | 1011 | 707  |
| 55°  | 717  | 750   | 798  | 830   | 840  | 639  |
| 65°  | 496  | 547   | 602  | 642   | 654  | 492  |
| 75°  | 275  | 334   | 402  | 446   | 461  | 292  |
| 85°  | 85   | 152   | 224  | 272   | 288  | 88   |
| 90°  | 29   | 103   | 180  | 232   | 247  | 20   |
| 95°  | 75   | 94    | 161  | 210   | 226  | 84   |
| 105° | 312  | 350   | 414  | 463   | 440  | 328  |
| 115° | 565  | 582   | 632  | 670   | 681  | 557  |
| 125° | 787  | 789   | 827  | 861   | 871  | 703  |
| 135° | 972  | 971   | 986  | 1013  | 1025 | 749  |
| 145° | 1118 | 1120  | 1120 | 1130  | 1139 | 699  |
| 155° | 1224 | 1225  | 1222 | 1226  | 1223 | 565  |
| 165° | 1292 | 1287  | 1287 | 1294  | 1286 | 365  |
| 175° | 1321 | 1315  | 1316 | 1325  | 1313 | 126  |
| 180° | 1321 | 1321  | 1321 | 1321  | 1321 |      |

TEST NUMBER: P1000833

CATALOG NUMBER: SA4XXDIP-B1195D1035UB30-4F0-XX-W2A-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1429.0 | 1429.0 | 1429.0 | 1429.0 | 1429.0 |
| 2.5°   | 1435.4 | 1430.6 | 1417.8 | 1429.0 | 1427.4 |
| 5°     | 1430.6 | 1425.8 | 1414.6 | 1427.4 | 1425.8 |
| 7.5°   | 1421.0 | 1417.8 | 1408.2 | 1422.6 | 1421.0 |
| 10°    | 1408.2 | 1406.6 | 1398.6 | 1413.0 | 1411.4 |
| 12.5°  | 1390.6 | 1390.6 | 1385.8 | 1398.6 | 1398.6 |
| 15°    | 1371.4 | 1373.0 | 1368.2 | 1382.6 | 1381.0 |
| 17.5°  | 1345.8 | 1350.6 | 1349.0 | 1363.4 | 1361.8 |
| 20°    | 1318.6 | 1323.4 | 1325.0 | 1341.0 | 1341.0 |
| 22.5°  | 1288.2 | 1294.6 | 1297.8 | 1313.8 | 1317.0 |
| 25°    | 1254.6 | 1264.2 | 1269.0 | 1286.6 | 1288.2 |
| 27.5°  | 1217.8 | 1232.2 | 1238.6 | 1254.6 | 1256.2 |
| 30°    | 1181.0 | 1193.8 | 1205.0 | 1222.6 | 1225.8 |
| 32.5°  | 1140.9 | 1157.0 | 1169.8 | 1190.6 | 1193.8 |
| 35°    | 1097.7 | 1116.9 | 1132.9 | 1155.4 | 1160.2 |
| 37.5°  | 1054.5 | 1076.9 | 1096.1 | 1118.5 | 1123.3 |
| 40°    | 1012.9 | 1033.7 | 1056.1 | 1080.1 | 1086.5 |
| 42.5°  | 964.9  | 988.9  | 1016.1 | 1043.3 | 1048.1 |
| 45°    | 915.3  | 945.7  | 976.1  | 1003.3 | 1011.3 |
| 47.5°  | 868.9  | 899.3  | 934.5  | 961.7  | 971.3  |
| 50°    | 817.7  | 852.9  | 888.1  | 920.1  | 929.7  |
| 52.5°  | 766.5  | 801.7  | 843.3  | 875.3  | 884.9  |
| 55°    | 716.9  | 750.5  | 798.5  | 830.5  | 840.1  |
| 57.5°  | 660.9  | 702.5  | 748.9  | 787.3  | 795.3  |
| 60°    | 606.5  | 648.1  | 700.9  | 737.7  | 750.5  |
| 62.5°  | 553.7  | 600.1  | 652.9  | 689.7  | 702.5  |
| 65°    | 496.1  | 547.3  | 601.7  | 641.7  | 654.5  |
| 67.5°  | 441.7  | 496.1  | 553.7  | 593.7  | 606.5  |
| 70°    | 385.7  | 440.1  | 500.9  | 544.1  | 555.3  |
| 72.5°  | 331.2  | 387.3  | 452.9  | 494.5  | 507.3  |
| 75°    | 275.2  | 334.4  | 401.7  | 446.5  | 460.9  |
| 77.5°  | 222.4  | 284.8  | 355.2  | 400.1  | 416.1  |
| 80°    | 174.4  | 238.4  | 308.8  | 356.8  | 369.6  |
| 82.5°  | 126.4  | 193.6  | 264.0  | 313.6  | 328.0  |
| 85°    | 84.8   | 152.0  | 224.0  | 272.0  | 288.0  |
| 87.5°  | 52.8   | 118.4  | 188.8  | 235.2  | 249.6  |
| 90°    | 28.6   | 103.4  | 180.1  | 232.5  | 247.2  |
| 92.5°  | 38.8   | 92.8   | 169.6  | 220.3  | 233.1  |
| 95°    | 75.2   | 94.4   | 160.9  | 210.1  | 225.5  |
| 97.5°  | 123.0  | 191.1  | 152.9  | 199.5  | 214.9  |
| 100°   | 179.7  | 239.0  | 165.1  | 191.5  | 203.7  |
| 102.5° | 244.9  | 291.9  | 364.6  | 183.9  | 196.7  |
| 105°   | 311.8  | 349.8  | 413.9  | 462.8  | 440.0  |
| 107.5° | 376.1  | 406.2  | 469.2  | 514.1  | 529.3  |
| 110°   | 439.7  | 465.1  | 527.0  | 565.8  | 581.5  |

TEST NUMBER: P1000833

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 501.3  | 526.5  | 581.2  | 615.5  | 632.2  |
| 115°   | 565.0  | 582.3  | 632.5  | 669.7  | 680.9  |
| 117.5° | 623.3  | 636.8  | 687.8  | 720.4  | 733.2  |
| 120°   | 681.0  | 689.7  | 735.1  | 769.1  | 779.9  |
| 122.5° | 736.3  | 738.3  | 783.4  | 816.4  | 825.7  |
| 125°   | 787.1  | 789.4  | 827.4  | 860.8  | 871.4  |
| 127.5° | 837.5  | 836.9  | 873.8  | 901.6  | 911.8  |
| 130°   | 884.3  | 883.7  | 912.2  | 942.0  | 951.6  |
| 132.5° | 928.8  | 929.1  | 952.3  | 980.5  | 989.1  |
| 135°   | 971.6  | 970.6  | 985.8  | 1013.4 | 1024.9 |
| 137.5° | 1011.1 | 1009.5 | 1020.9 | 1046.9 | 1053.9 |
| 140°   | 1049.7 | 1050.1 | 1053.6 | 1077.4 | 1086.4 |
| 142.5° | 1082.7 | 1086.6 | 1086.0 | 1105.6 | 1112.0 |
| 145°   | 1118.2 | 1119.6 | 1119.6 | 1130.2 | 1138.6 |
| 147.5° | 1145.9 | 1150.2 | 1149.3 | 1151.8 | 1159.2 |
| 150°   | 1176.6 | 1178.9 | 1177.9 | 1177.9 | 1178.9 |
| 152.5° | 1200.6 | 1203.6 | 1201.6 | 1203.6 | 1202.6 |
| 155°   | 1224.4 | 1225.4 | 1222.4 | 1226.3 | 1223.4 |
| 157.5° | 1245.1 | 1245.1 | 1241.2 | 1246.1 | 1241.2 |
| 160°   | 1262.9 | 1259.9 | 1258.9 | 1264.9 | 1258.9 |
| 162.5° | 1278.7 | 1274.8 | 1273.8 | 1279.7 | 1272.8 |
| 165°   | 1291.6 | 1286.6 | 1286.6 | 1294.5 | 1285.6 |
| 167.5° | 1302.4 | 1297.5 | 1296.5 | 1305.4 | 1295.5 |
| 170°   | 1311.3 | 1305.4 | 1306.4 | 1314.3 | 1304.4 |
| 172.5° | 1317.3 | 1311.3 | 1312.3 | 1320.2 | 1309.3 |
| 175°   | 1321.2 | 1315.3 | 1316.3 | 1325.2 | 1313.3 |
| 177.5° | 1324.2 | 1317.3 | 1319.2 | 1327.1 | 1315.3 |
| 180°   | 1321.2 | 1321.2 | 1321.2 | 1321.2 | 1321.2 |

(END OF REPORT)