

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: P1025050

Luminaire Tested: S124DIP-B1195D1035UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025050  
REPORT IS A COMBINATION OF REPORTS P995455 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B1195D1035UB35-4F0-XX-W2A-D  
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

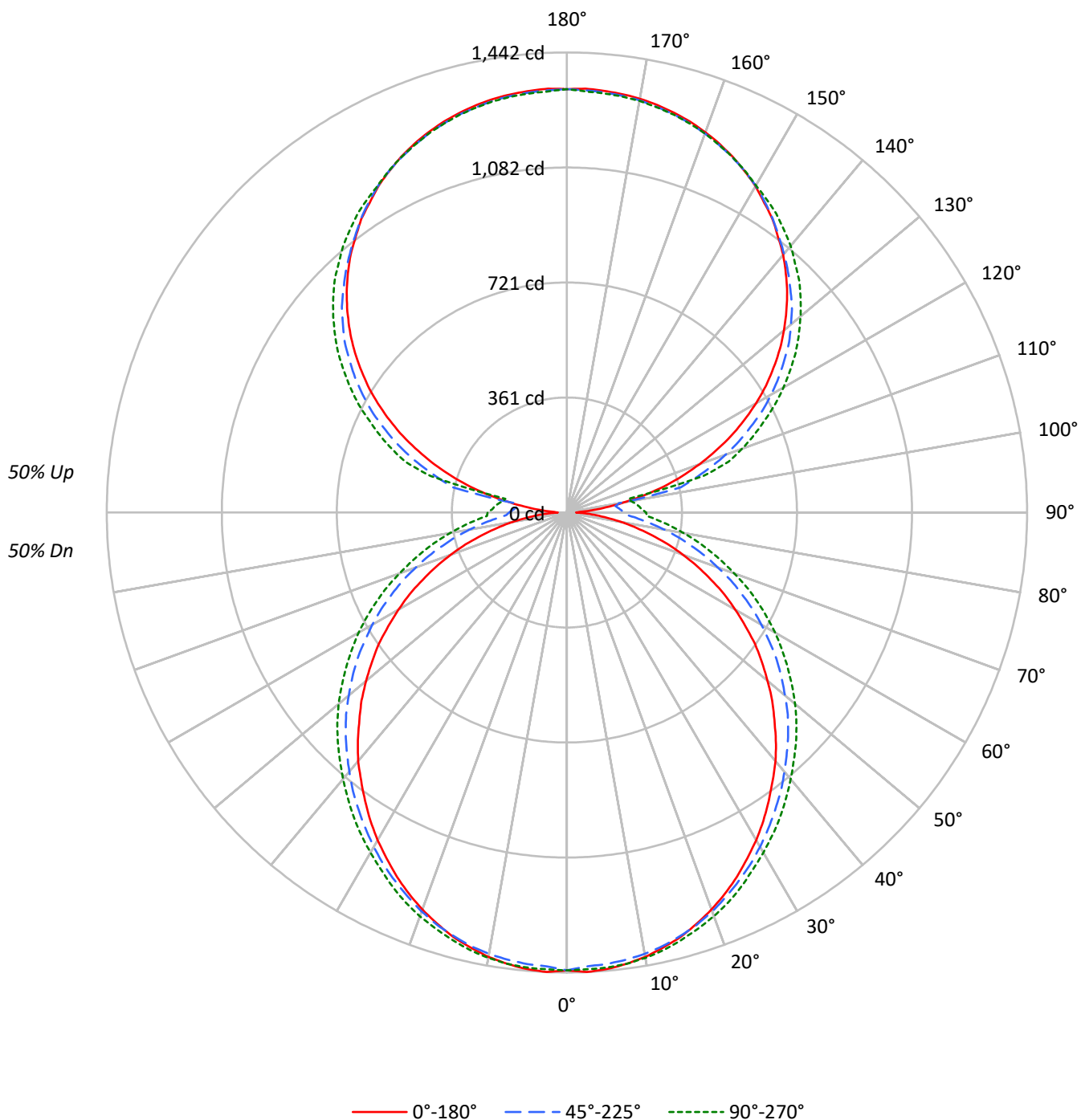
Lumens per Lamp: N/A  
Luminaire Lumens: 9002.0 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 |
| 1   | 97  | 92  | 88  | 84  | 89 | 85 | 81 | 78 | 72 | 69 | 66 | 59 | 58 | 56 | 48 | 47 | 46 |
| 2   | 88  | 80  | 73  | 68  | 81 | 74 | 68 | 63 | 62 | 58 | 54 | 52 | 48 | 46 | 42 | 40 | 38 |
| 3   | 80  | 70  | 62  | 56  | 73 | 64 | 58 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 37 | 34 | 32 |
| 4   | 73  | 62  | 53  | 47  | 67 | 57 | 50 | 44 | 48 | 43 | 38 | 40 | 36 | 32 | 33 | 29 | 27 |
| 5   | 67  | 55  | 46  | 40  | 61 | 51 | 43 | 37 | 43 | 37 | 33 | 36 | 31 | 28 | 29 | 26 | 23 |
| 6   | 61  | 49  | 41  | 34  | 56 | 45 | 38 | 32 | 39 | 33 | 28 | 32 | 28 | 24 | 26 | 23 | 20 |
| 7   | 57  | 44  | 36  | 30  | 52 | 41 | 34 | 28 | 35 | 29 | 25 | 29 | 25 | 21 | 24 | 21 | 18 |
| 8   | 53  | 40  | 32  | 27  | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 19 | 16 |
| 9   | 49  | 36  | 29  | 24  | 45 | 34 | 27 | 22 | 29 | 23 | 20 | 25 | 20 | 17 | 20 | 17 | 14 |
| 10  | 46  | 33  | 26  | 21  | 42 | 31 | 24 | 20 | 27 | 21 | 18 | 23 | 18 | 15 | 19 | 15 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11702 | 11702 | 11702 |
| 5°  | 11735 | 11398 | 11418 |
| 10° | 11659 | 11173 | 11142 |
| 15° | 11550 | 10922 | 10829 |
| 20° | 11388 | 10649 | 10526 |
| 25° | 11206 | 10347 | 10199 |
| 30° | 11008 | 10049 | 9865  |
| 35° | 10786 | 9744  | 9569  |
| 40° | 10607 | 9452  | 9261  |
| 45° | 10343 | 9176  | 8989  |
| 50° | 10116 | 8864  | 8702  |
| 55° | 9883  | 8564  | 8372  |
| 60° | 9521  | 8190  | 8061  |
| 65° | 9124  | 7787  | 7687  |
| 70° | 8641  | 7325  | 7256  |
| 75° | 7965  | 6812  | 6843  |
| 80° | 7206  | 6291  | 6412  |
| 85° | 6200  | 5766  | 6064  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10343 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.0  | 1.5       |
| 10°-20°   | 389.6  | 4.3       |
| 20°-30°   | 589.1  | 6.5       |
| 30°-40°   | 712.7  | 7.9       |
| 40°-50°   | 753.4  | 8.4       |
| 50°-60°   | 709.1  | 7.9       |
| 60°-70°   | 588.4  | 6.5       |
| 70°-80°   | 412.9  | 4.6       |
| 80°-90°   | 235.5  | 2.6       |
| 90°-100°  | 182.6  | 2.0       |
| 100°-110° | 392.7  | 4.4       |
| 110°-120° | 622.8  | 6.9       |
| 120°-130° | 742.0  | 8.2       |
| 130°-140° | 769.1  | 8.5       |
| 140°-150° | 706.8  | 7.9       |
| 150°-160° | 567.3  | 6.3       |
| 160°-170° | 365.8  | 4.1       |
| 170°-180° | 126.1  | 1.4       |
| 0°-30°    | 1114.7 | 12.4      |
| 0°-40°    | 1827.4 | 20.3      |
| 0°-60°    | 3289.9 | 36.5      |
| 0°-90°    | 4526.8 | 50.3      |
| 90°-120°  | 1198.2 | 13.3      |
| 90°-150°  | 3416.0 | 37.9      |
| 90°-180°  | 4475.0 | 49.7      |
| 0°-180°   | 9002.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1435 | 1435  | 1435 | 1435  | 1435 |      |
| 5°   | 1437 | 1432  | 1421 | 1434  | 1432 | 136  |
| 15°  | 1377 | 1379  | 1374 | 1388  | 1387 | 388  |
| 25°  | 1260 | 1270  | 1274 | 1292  | 1294 | 580  |
| 35°  | 1102 | 1122  | 1138 | 1160  | 1165 | 690  |
| 45°  | 919  | 950   | 980  | 1008  | 1016 | 710  |
| 55°  | 720  | 754   | 802  | 834   | 844  | 642  |
| 65°  | 498  | 550   | 604  | 644   | 657  | 494  |
| 75°  | 276  | 336   | 403  | 448   | 463  | 294  |
| 85°  | 85   | 153   | 225  | 273   | 289  | 89   |
| 90°  | 29   | 104   | 181  | 234   | 248  | 20   |
| 95°  | 76   | 95    | 162  | 211   | 226  | 84   |
| 105° | 313  | 351   | 416  | 465   | 442  | 329  |
| 115° | 567  | 585   | 635  | 673   | 684  | 559  |
| 125° | 790  | 793   | 831  | 865   | 875  | 706  |
| 135° | 976  | 975   | 990  | 1018  | 1029 | 752  |
| 145° | 1123 | 1124  | 1124 | 1135  | 1144 | 702  |
| 155° | 1230 | 1231  | 1228 | 1232  | 1229 | 567  |
| 165° | 1297 | 1292  | 1292 | 1300  | 1291 | 367  |
| 175° | 1327 | 1321  | 1322 | 1331  | 1319 | 126  |
| 180° | 1327 | 1327  | 1327 | 1327  | 1327 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5°   | 1441.6 | 1436.8 | 1423.9 | 1435.1 | 1433.5 |
| 5°     | 1436.8 | 1431.9 | 1420.7 | 1433.5 | 1431.9 |
| 7.5°   | 1427.1 | 1423.9 | 1414.3 | 1428.7 | 1427.1 |
| 10°    | 1414.3 | 1412.6 | 1404.6 | 1419.1 | 1417.5 |
| 12.5°  | 1396.6 | 1396.6 | 1391.8 | 1404.6 | 1404.6 |
| 15°    | 1377.3 | 1378.9 | 1374.1 | 1388.5 | 1386.9 |
| 17.5°  | 1351.6 | 1356.4 | 1354.8 | 1369.3 | 1367.6 |
| 20°    | 1324.3 | 1329.1 | 1330.7 | 1346.8 | 1346.8 |
| 22.5°  | 1293.7 | 1300.1 | 1303.4 | 1319.4 | 1322.6 |
| 25°    | 1260.0 | 1269.6 | 1274.4 | 1292.1 | 1293.7 |
| 27.5°  | 1223.0 | 1237.5 | 1243.9 | 1260.0 | 1261.6 |
| 30°    | 1186.0 | 1198.9 | 1210.2 | 1227.8 | 1231.0 |
| 32.5°  | 1145.9 | 1161.9 | 1174.8 | 1195.7 | 1198.9 |
| 35°    | 1102.5 | 1121.8 | 1137.8 | 1160.3 | 1165.2 |
| 37.5°  | 1059.1 | 1081.6 | 1100.9 | 1123.4 | 1128.2 |
| 40°    | 1017.3 | 1038.2 | 1060.7 | 1084.8 | 1091.2 |
| 42.5°  | 969.1  | 993.2  | 1020.5 | 1047.8 | 1052.7 |
| 45°    | 919.3  | 949.8  | 980.3  | 1007.7 | 1015.7 |
| 47.5°  | 872.7  | 903.2  | 938.5  | 965.9  | 975.5  |
| 50°    | 821.2  | 856.6  | 891.9  | 924.1  | 933.7  |
| 52.5°  | 769.8  | 805.2  | 846.9  | 879.1  | 888.7  |
| 55°    | 720.0  | 753.7  | 801.9  | 834.1  | 843.7  |
| 57.5°  | 663.7  | 705.5  | 752.1  | 790.7  | 798.7  |
| 60°    | 609.1  | 650.9  | 703.9  | 740.9  | 753.7  |
| 62.5°  | 556.1  | 602.7  | 655.7  | 692.7  | 705.5  |
| 65°    | 498.2  | 549.6  | 604.3  | 644.4  | 657.3  |
| 67.5°  | 443.6  | 498.2  | 556.1  | 596.2  | 609.1  |
| 70°    | 387.3  | 442.0  | 503.0  | 546.4  | 557.7  |
| 72.5°  | 332.7  | 388.9  | 454.8  | 496.6  | 509.5  |
| 75°    | 276.4  | 335.9  | 403.4  | 448.4  | 462.8  |
| 77.5°  | 223.4  | 286.1  | 356.8  | 401.8  | 417.8  |
| 80°    | 175.2  | 239.5  | 310.2  | 358.4  | 371.2  |
| 82.5°  | 127.0  | 194.5  | 265.2  | 315.0  | 329.5  |
| 85°    | 85.2   | 152.7  | 225.0  | 273.2  | 289.3  |
| 87.5°  | 53.0   | 118.9  | 189.6  | 236.2  | 250.7  |
| 90°    | 28.7   | 103.9  | 180.9  | 233.5  | 248.4  |
| 92.5°  | 39.0   | 93.3   | 170.3  | 221.3  | 234.1  |
| 95°    | 75.5   | 94.7   | 161.6  | 211.0  | 226.5  |
| 97.5°  | 123.5  | 192.0  | 153.6  | 200.4  | 215.8  |
| 100°   | 180.5  | 240.1  | 165.8  | 192.3  | 204.6  |
| 102.5° | 246.0  | 293.2  | 366.2  | 184.7  | 197.5  |
| 105°   | 313.3  | 351.3  | 415.8  | 464.8  | 442.0  |
| 107.5° | 377.8  | 408.0  | 471.2  | 516.4  | 531.6  |
| 110°   | 441.7  | 467.2  | 529.3  | 568.3  | 584.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 503.5  | 528.8  | 583.8  | 618.1  | 635.0  |
| 115°   | 567.4  | 584.9  | 635.3  | 672.7  | 683.9  |
| 117.5° | 626.0  | 639.6  | 690.8  | 723.5  | 736.4  |
| 120°   | 683.9  | 692.8  | 738.4  | 772.5  | 783.4  |
| 122.5° | 739.5  | 741.5  | 786.9  | 820.1  | 829.3  |
| 125°   | 790.5  | 792.9  | 831.1  | 864.6  | 875.3  |
| 127.5° | 841.1  | 840.5  | 877.7  | 905.6  | 915.8  |
| 130°   | 888.2  | 887.5  | 916.2  | 946.2  | 955.8  |
| 132.5° | 932.8  | 933.2  | 956.5  | 984.8  | 993.5  |
| 135°   | 975.9  | 974.9  | 990.2  | 1017.8 | 1029.4 |
| 137.5° | 1015.6 | 1014.0 | 1025.3 | 1051.4 | 1058.5 |
| 140°   | 1054.3 | 1054.7 | 1058.3 | 1082.1 | 1091.1 |
| 142.5° | 1087.4 | 1091.4 | 1090.8 | 1110.5 | 1116.9 |
| 145°   | 1123.2 | 1124.5 | 1124.5 | 1135.1 | 1143.6 |
| 147.5° | 1151.0 | 1155.3 | 1154.3 | 1156.9 | 1164.3 |
| 150°   | 1181.7 | 1184.1 | 1183.1 | 1183.1 | 1184.1 |
| 152.5° | 1205.9 | 1208.9 | 1206.9 | 1208.9 | 1207.9 |
| 155°   | 1229.7 | 1230.7 | 1227.8 | 1231.7 | 1228.8 |
| 157.5° | 1250.6 | 1250.6 | 1246.6 | 1251.6 | 1246.6 |
| 160°   | 1268.5 | 1265.5 | 1264.5 | 1270.4 | 1264.5 |
| 162.5° | 1284.3 | 1280.4 | 1279.4 | 1285.3 | 1278.4 |
| 165°   | 1297.2 | 1292.3 | 1292.3 | 1300.2 | 1291.3 |
| 167.5° | 1308.2 | 1303.2 | 1302.2 | 1311.1 | 1301.2 |
| 170°   | 1317.1 | 1311.1 | 1312.1 | 1320.1 | 1310.1 |
| 172.5° | 1323.0 | 1317.1 | 1318.1 | 1326.0 | 1315.1 |
| 175°   | 1327.0 | 1321.1 | 1322.1 | 1331.0 | 1319.1 |
| 177.5° | 1330.0 | 1323.0 | 1325.0 | 1333.0 | 1321.1 |
| 180°   | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |

(END OF REPORT)