

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: P1012924

Luminaire Tested: S124DIP-B1195D1035UB2750-4F0-XX-W2A-D\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1012924  
REPORT IS A COMBINATION OF REPORTS P995436 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B1195D1035UB2750-4F0-XX-W2A-D\_4000K  
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

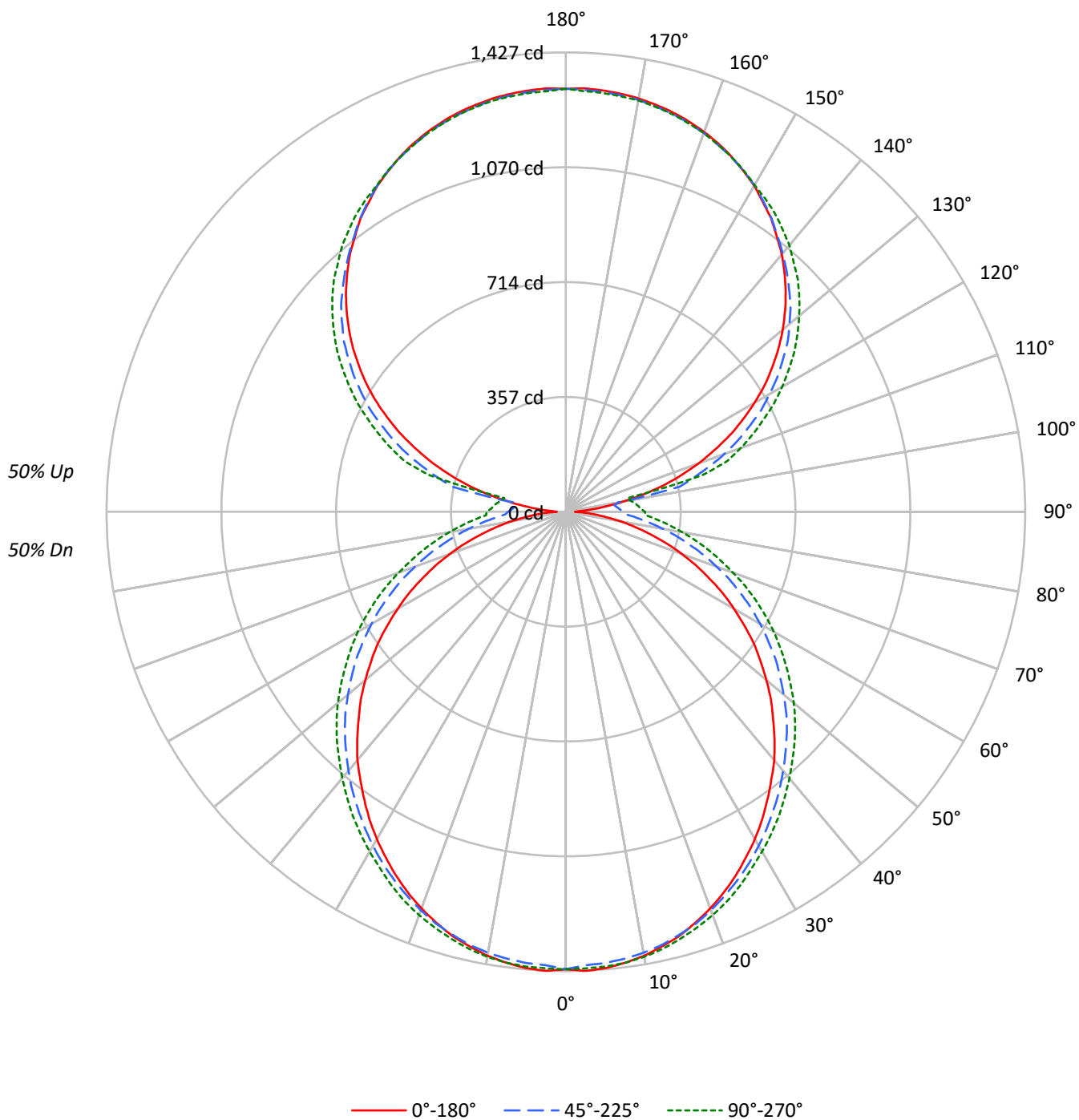
Lumens per Lamp: N/A  
Luminaire Lumens: 8913.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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°  | 11588 | 11588 | 11588 |
| 5°  | 11620 | 11286 | 11307 |
| 10° | 11545 | 11064 | 11033 |
| 15° | 11437 | 10814 | 10723 |
| 20° | 11277 | 10544 | 10422 |
| 25° | 11096 | 10246 | 10099 |
| 30° | 10901 | 9951  | 9769  |
| 35° | 10681 | 9649  | 9474  |
| 40° | 10502 | 9359  | 9170  |
| 45° | 10241 | 9087  | 8901  |
| 50° | 10018 | 8778  | 8617  |
| 55° | 9786  | 8480  | 8290  |
| 60° | 9428  | 8109  | 7982  |
| 65° | 9034  | 7709  | 7612  |
| 70° | 8556  | 7253  | 7184  |
| 75° | 7887  | 6745  | 6776  |
| 80° | 7136  | 6228  | 6350  |
| 85° | 6134  | 5709  | 6003  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10241 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.6  | 1.5       |
| 10°-20°   | 385.8  | 4.3       |
| 20°-30°   | 583.3  | 6.5       |
| 30°-40°   | 705.7  | 7.9       |
| 40°-50°   | 746.0  | 8.4       |
| 50°-60°   | 702.1  | 7.9       |
| 60°-70°   | 582.6  | 6.5       |
| 70°-80°   | 408.9  | 4.6       |
| 80°-90°   | 233.2  | 2.6       |
| 90°-100°  | 180.8  | 2.0       |
| 100°-110° | 388.8  | 4.4       |
| 110°-120° | 616.6  | 6.9       |
| 120°-130° | 734.6  | 8.2       |
| 130°-140° | 761.4  | 8.5       |
| 140°-150° | 699.7  | 7.9       |
| 150°-160° | 561.6  | 6.3       |
| 160°-170° | 362.2  | 4.1       |
| 170°-180° | 124.8  | 1.4       |
| 0°-30°    | 1103.7 | 12.4      |
| 0°-40°    | 1809.5 | 20.3      |
| 0°-60°    | 3257.6 | 36.5      |
| 0°-90°    | 4482.3 | 50.3      |
| 90°-120°  | 1186.2 | 13.3      |
| 90°-150°  | 3382.0 | 37.9      |
| 90°-180°  | 4431.0 | 49.7      |
| 0°-180°   | 8913.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1421 | 1421  | 1421 | 1421  | 1421 |      |
| 5°   | 1423 | 1418  | 1407 | 1420  | 1418 | 135  |
| 15°  | 1364 | 1365  | 1361 | 1375  | 1373 | 384  |
| 25°  | 1248 | 1257  | 1262 | 1279  | 1281 | 575  |
| 35°  | 1092 | 1111  | 1127 | 1149  | 1154 | 684  |
| 45°  | 910  | 940   | 971  | 998   | 1006 | 704  |
| 55°  | 713  | 746   | 794  | 826   | 836  | 635  |
| 65°  | 493  | 544   | 598  | 638   | 651  | 489  |
| 75°  | 274  | 333   | 399  | 444   | 458  | 291  |
| 85°  | 84   | 151   | 223  | 270   | 286  | 88   |
| 90°  | 28   | 103   | 179  | 231   | 246  | 20   |
| 95°  | 75   | 94    | 160  | 209   | 224  | 83   |
| 105° | 310  | 348   | 412  | 460   | 438  | 326  |
| 115° | 562  | 579   | 629  | 666   | 677  | 554  |
| 125° | 783  | 785   | 823  | 856   | 866  | 699  |
| 135° | 966  | 965   | 980  | 1008  | 1019 | 745  |
| 145° | 1112 | 1113  | 1113 | 1124  | 1132 | 695  |
| 155° | 1218 | 1218  | 1216 | 1219  | 1216 | 561  |
| 165° | 1284 | 1279  | 1279 | 1287  | 1278 | 363  |
| 175° | 1314 | 1308  | 1309 | 1318  | 1306 | 125  |
| 180° | 1314 | 1314  | 1314 | 1314  | 1314 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1421.1 | 1421.1 | 1421.1 | 1421.1 | 1421.1 |
| 2.5°   | 1427.4 | 1422.7 | 1409.9 | 1421.1 | 1419.5 |
| 5°     | 1422.7 | 1417.9 | 1406.7 | 1419.5 | 1417.9 |
| 7.5°   | 1413.1 | 1409.9 | 1400.4 | 1414.7 | 1413.1 |
| 10°    | 1400.4 | 1398.8 | 1390.8 | 1405.2 | 1403.6 |
| 12.5°  | 1382.9 | 1382.9 | 1378.1 | 1390.8 | 1390.8 |
| 15°    | 1363.8 | 1365.4 | 1360.6 | 1374.9 | 1373.3 |
| 17.5°  | 1338.3 | 1343.1 | 1341.5 | 1355.8 | 1354.2 |
| 20°    | 1311.3 | 1316.0 | 1317.6 | 1333.5 | 1333.5 |
| 22.5°  | 1281.0 | 1287.4 | 1290.6 | 1306.5 | 1309.7 |
| 25°    | 1247.6 | 1257.2 | 1261.9 | 1279.4 | 1281.0 |
| 27.5°  | 1211.0 | 1225.3 | 1231.7 | 1247.6 | 1249.2 |
| 30°    | 1174.4 | 1187.1 | 1198.3 | 1215.8 | 1219.0 |
| 32.5°  | 1134.6 | 1150.5 | 1163.3 | 1184.0 | 1187.1 |
| 35°    | 1091.7 | 1110.8 | 1126.7 | 1148.9 | 1153.7 |
| 37.5°  | 1048.7 | 1071.0 | 1090.1 | 1112.3 | 1117.1 |
| 40°    | 1007.3 | 1028.0 | 1050.3 | 1074.2 | 1080.5 |
| 42.5°  | 959.6  | 983.4  | 1010.5 | 1037.6 | 1042.3 |
| 45°    | 910.2  | 940.5  | 970.7  | 997.8  | 1005.7 |
| 47.5°  | 864.1  | 894.3  | 929.3  | 956.4  | 965.9  |
| 50°    | 813.2  | 848.2  | 883.2  | 915.0  | 924.6  |
| 52.5°  | 762.3  | 797.3  | 838.6  | 870.5  | 880.0  |
| 55°    | 712.9  | 746.3  | 794.1  | 825.9  | 835.5  |
| 57.5°  | 657.2  | 698.6  | 744.7  | 782.9  | 790.9  |
| 60°    | 603.1  | 644.5  | 697.0  | 733.6  | 746.3  |
| 62.5°  | 550.6  | 596.8  | 649.3  | 685.9  | 698.6  |
| 65°    | 493.3  | 544.2  | 598.3  | 638.1  | 650.9  |
| 67.5°  | 439.2  | 493.3  | 550.6  | 590.4  | 603.1  |
| 70°    | 383.5  | 437.6  | 498.1  | 541.1  | 552.2  |
| 72.5°  | 329.4  | 385.1  | 450.3  | 491.7  | 504.5  |
| 75°    | 273.7  | 332.6  | 399.4  | 444.0  | 458.3  |
| 77.5°  | 221.2  | 283.3  | 353.3  | 397.8  | 413.7  |
| 80°    | 173.5  | 237.1  | 307.1  | 354.9  | 367.6  |
| 82.5°  | 125.7  | 192.6  | 262.6  | 311.9  | 326.2  |
| 85°    | 84.3   | 151.2  | 222.8  | 270.5  | 286.4  |
| 87.5°  | 52.5   | 117.8  | 187.8  | 233.9  | 248.2  |
| 90°    | 28.4   | 102.9  | 179.1  | 231.2  | 245.9  |
| 92.5°  | 38.6   | 92.4   | 168.6  | 219.1  | 231.8  |
| 95°    | 74.7   | 93.8   | 160.0  | 208.9  | 224.2  |
| 97.5°  | 122.3  | 190.0  | 152.1  | 198.4  | 213.7  |
| 100°   | 178.7  | 237.7  | 164.1  | 190.4  | 202.5  |
| 102.5° | 243.5  | 290.3  | 362.6  | 182.9  | 195.6  |
| 105°   | 310.1  | 347.8  | 411.6  | 460.2  | 437.5  |
| 107.5° | 373.9  | 404.0  | 466.6  | 511.3  | 526.3  |
| 110°   | 437.2  | 462.4  | 524.0  | 562.6  | 578.3  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 498.5  | 523.5  | 577.9  | 612.1  | 628.7  |
| 115°   | 561.7  | 579.1  | 629.0  | 666.0  | 677.1  |
| 117.5° | 619.7  | 633.2  | 683.9  | 716.4  | 729.1  |
| 120°   | 677.2  | 685.8  | 731.0  | 764.8  | 775.5  |
| 122.5° | 732.2  | 734.2  | 779.0  | 811.8  | 821.0  |
| 125°   | 782.7  | 785.0  | 822.8  | 856.0  | 866.5  |
| 127.5° | 832.8  | 832.2  | 868.9  | 896.5  | 906.7  |
| 130°   | 879.3  | 878.7  | 907.1  | 936.8  | 946.3  |
| 132.5° | 923.6  | 923.9  | 947.0  | 974.9  | 983.6  |
| 135°   | 966.2  | 965.2  | 980.2  | 1007.7 | 1019.2 |
| 137.5° | 1005.5 | 1003.9 | 1015.2 | 1041.0 | 1048.0 |
| 140°   | 1043.8 | 1044.2 | 1047.7 | 1071.4 | 1080.3 |
| 142.5° | 1076.6 | 1080.5 | 1079.9 | 1099.4 | 1105.8 |
| 145°   | 1112.0 | 1113.3 | 1113.3 | 1123.8 | 1132.2 |
| 147.5° | 1139.5 | 1143.8 | 1142.8 | 1145.4 | 1152.8 |
| 150°   | 1169.9 | 1172.3 | 1171.3 | 1171.3 | 1172.3 |
| 152.5° | 1193.9 | 1196.8 | 1194.9 | 1196.8 | 1195.9 |
| 155°   | 1217.5 | 1218.5 | 1215.5 | 1219.4 | 1216.5 |
| 157.5° | 1238.1 | 1238.1 | 1234.2 | 1239.1 | 1234.2 |
| 160°   | 1255.8 | 1252.9 | 1251.9 | 1257.8 | 1251.9 |
| 162.5° | 1271.5 | 1267.6 | 1266.6 | 1272.5 | 1265.6 |
| 165°   | 1284.3 | 1279.4 | 1279.4 | 1287.2 | 1278.4 |
| 167.5° | 1295.1 | 1290.2 | 1289.2 | 1298.1 | 1288.2 |
| 170°   | 1303.9 | 1298.1 | 1299.0 | 1306.9 | 1297.1 |
| 172.5° | 1309.8 | 1303.9 | 1304.9 | 1312.8 | 1302.0 |
| 175°   | 1313.8 | 1307.9 | 1308.9 | 1317.7 | 1305.9 |
| 177.5° | 1316.7 | 1309.8 | 1311.8 | 1319.7 | 1307.9 |
| 180°   | 1313.8 | 1313.8 | 1313.8 | 1313.8 | 1313.8 |

(END OF REPORT)