

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: P1026112

Luminaire Tested: S124RDIP-B1195D1205UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026112  
REPORT IS A COMBINATION OF REPORTS P999062 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDIP-B1195D1205UB27-4F0-XX-W2A-F  
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}  
{m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

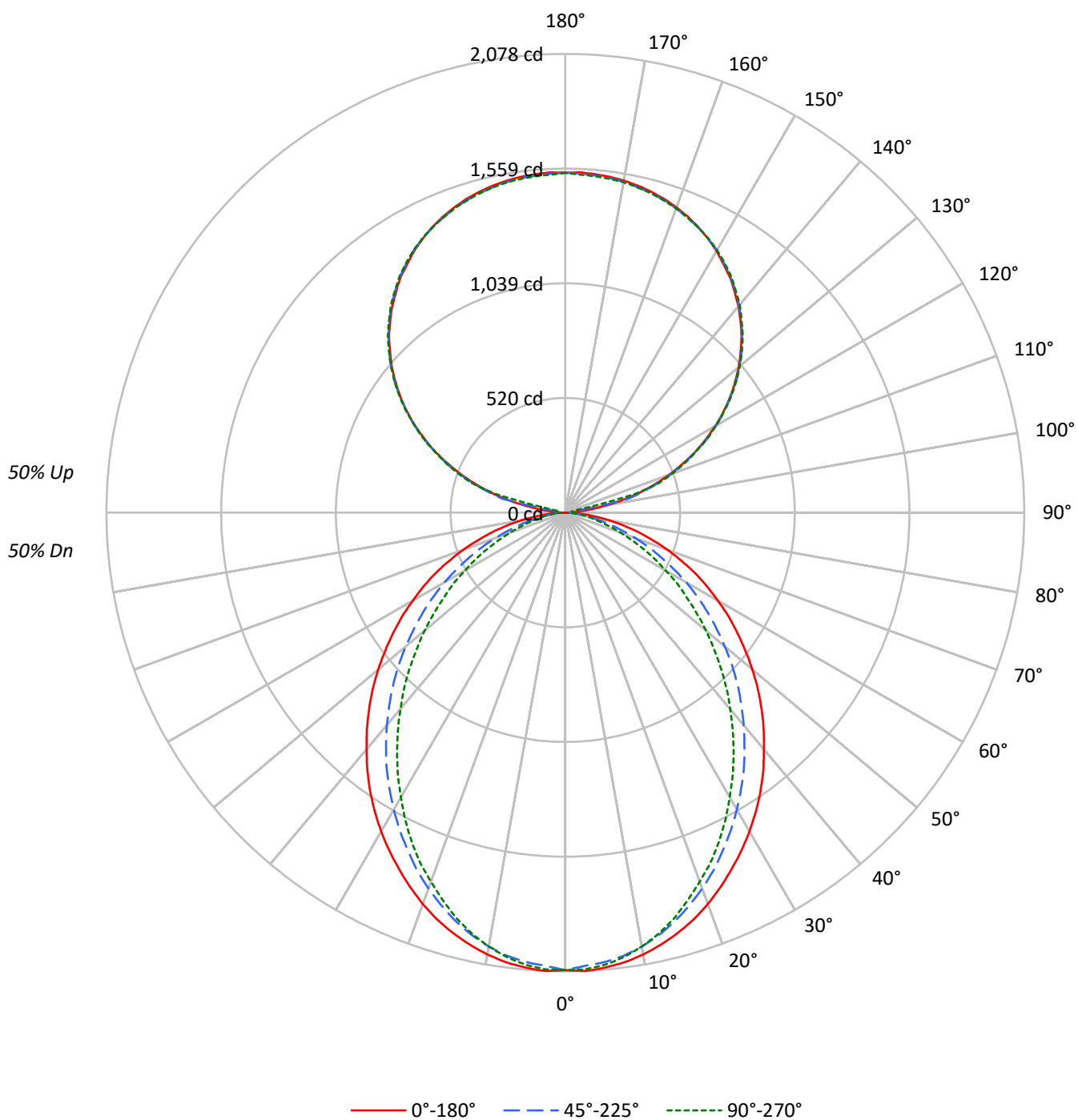
Lumens per Lamp: N/A  
Luminaire Lumens: 9554.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 96.3  
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   | 98  | 94  | 90  | 87  | 90 | 87 | 84 | 81 | 74 | 71 | 69 | 61 | 60 | 58 | 50 | 49 | 48 |
| 2   | 90  | 82  | 76  | 71  | 82 | 76 | 71 | 67 | 65 | 61 | 58 | 54 | 51 | 49 | 44 | 43 | 41 |
| 3   | 82  | 73  | 65  | 60  | 75 | 67 | 61 | 56 | 57 | 53 | 49 | 48 | 45 | 42 | 40 | 37 | 35 |
| 4   | 75  | 64  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 36 | 33 | 30 |
| 5   | 69  | 57  | 49  | 44  | 63 | 53 | 46 | 41 | 46 | 40 | 36 | 39 | 35 | 31 | 32 | 29 | 27 |
| 6   | 64  | 52  | 44  | 38  | 58 | 48 | 41 | 36 | 41 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 24 |
| 7   | 59  | 47  | 39  | 33  | 54 | 44 | 36 | 31 | 38 | 32 | 28 | 32 | 28 | 24 | 27 | 24 | 21 |
| 8   | 55  | 42  | 35  | 29  | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 25 | 21 | 19 |
| 9   | 51  | 39  | 31  | 26  | 47 | 36 | 30 | 25 | 31 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 |
| 10  | 48  | 36  | 28  | 24  | 44 | 33 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16898 | 16898 | 16898 |
| 5°  | 16899 | 16395 | 16397 |
| 10° | 16756 | 15878 | 15689 |
| 15° | 16525 | 15234 | 14854 |
| 20° | 16223 | 14500 | 13902 |
| 25° | 15847 | 13707 | 12972 |
| 30° | 15479 | 12899 | 11927 |
| 35° | 15073 | 12079 | 10906 |
| 40° | 14590 | 11197 | 9857  |
| 45° | 14138 | 10322 | 8818  |
| 50° | 13624 | 9367  | 7764  |
| 55° | 13068 | 8387  | 6675  |
| 60° | 12451 | 7347  | 5600  |
| 65° | 11856 | 6154  | 4565  |
| 70° | 11010 | 4899  | 3488  |
| 75° | 9922  | 3563  | 2440  |
| 80° | 8287  | 2188  | 1753  |
| 85° | 6236  | 1261  | 964   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14138 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 194.9  | 2.0       |
| 10°-20°   | 543.3  | 5.7       |
| 20°-30°   | 784.4  | 8.2       |
| 30°-40°   | 889.0  | 9.3       |
| 40°-50°   | 858.3  | 9.0       |
| 50°-60°   | 713.6  | 7.5       |
| 60°-70°   | 492.5  | 5.2       |
| 70°-80°   | 248.9  | 2.6       |
| 80°-90°   | 66.4   | 0.7       |
| 90°-100°  | 51.1   | 0.5       |
| 100°-110° | 336.5  | 3.5       |
| 110°-120° | 642.5  | 6.7       |
| 120°-130° | 815.7  | 8.5       |
| 130°-140° | 872.6  | 9.1       |
| 140°-150° | 815.9  | 8.5       |
| 150°-160° | 658.0  | 6.9       |
| 160°-170° | 424.3  | 4.4       |
| 170°-180° | 146.2  | 1.5       |
| 0°-30°    | 1522.5 | 15.9      |
| 0°-40°    | 2411.5 | 25.2      |
| 0°-60°    | 3983.4 | 41.7      |
| 0°-90°    | 4791.1 | 50.1      |
| 90°-120°  | 1030.1 | 10.8      |
| 90°-150°  | 3534.3 | 37.0      |
| 90°-180°  | 4763.0 | 49.9      |
| 0°-180°   | 9554.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2072 | 2072  | 2072 | 2072  | 2072 |      |
| 5°   | 2069 | 2063  | 2044 | 2060  | 2056 | 196  |
| 15°  | 1971 | 1956  | 1917 | 1914  | 1902 | 555  |
| 25°  | 1782 | 1753  | 1688 | 1661  | 1645 | 821  |
| 35°  | 1541 | 1490  | 1410 | 1357  | 1328 | 963  |
| 45°  | 1257 | 1198  | 1103 | 1025  | 996  | 969  |
| 55°  | 952  | 888   | 785  | 703   | 673  | 852  |
| 65°  | 647  | 579   | 478  | 409   | 390  | 639  |
| 75°  | 344  | 286   | 211  | 174   | 165  | 363  |
| 85°  | 86   | 54    | 49   | 46    | 46   | 94   |
| 90°  | 4    | 16    | 25   | 32    | 34   | 8    |
| 95°  | 63   | 24    | 25   | 32    | 33   | 78   |
| 105° | 346  | 353   | 359  | 370   | 328  | 363  |
| 115° | 647  | 650   | 649  | 652   | 652  | 637  |
| 125° | 910  | 914   | 912  | 915   | 916  | 812  |
| 135° | 1128 | 1127  | 1132 | 1134  | 1136 | 869  |
| 145° | 1301 | 1304  | 1304 | 1306  | 1308 | 813  |
| 155° | 1426 | 1428  | 1424 | 1429  | 1425 | 658  |
| 165° | 1505 | 1499  | 1499 | 1508  | 1498 | 425  |
| 175° | 1539 | 1532  | 1533 | 1544  | 1530 | 147  |
| 180° | 1539 | 1539  | 1539 | 1539  | 1539 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2072.2 | 2072.2 | 2072.2 | 2072.2 | 2072.2 |
| 2.5°   | 2078.5 | 2072.2 | 2054.7 | 2072.2 | 2070.6 |
| 5°     | 2069.0 | 2062.7 | 2043.6 | 2059.5 | 2056.3 |
| 7.5°   | 2054.7 | 2048.4 | 2024.6 | 2035.7 | 2030.9 |
| 10°    | 2032.5 | 2024.6 | 1996.0 | 2002.4 | 1996.0 |
| 12.5°  | 2004.0 | 1994.4 | 1959.5 | 1962.7 | 1953.2 |
| 15°    | 1970.6 | 1956.4 | 1916.7 | 1913.5 | 1902.4 |
| 17.5°  | 1932.6 | 1911.9 | 1865.9 | 1858.0 | 1842.1 |
| 20°    | 1886.5 | 1865.9 | 1812.0 | 1799.3 | 1778.7 |
| 22.5°  | 1835.8 | 1812.0 | 1753.3 | 1732.6 | 1716.8 |
| 25°    | 1781.8 | 1753.3 | 1688.2 | 1661.2 | 1645.4 |
| 27.5°  | 1726.3 | 1691.4 | 1623.2 | 1591.4 | 1569.2 |
| 30°    | 1667.6 | 1627.9 | 1553.3 | 1513.7 | 1488.3 |
| 32.5°  | 1605.7 | 1559.7 | 1481.9 | 1434.3 | 1410.5 |
| 35°    | 1540.7 | 1489.9 | 1410.5 | 1356.6 | 1328.0 |
| 37.5°  | 1472.4 | 1420.1 | 1332.8 | 1274.1 | 1245.5 |
| 40°    | 1399.4 | 1347.1 | 1256.6 | 1190.0 | 1161.4 |
| 42.5°  | 1329.6 | 1274.1 | 1178.9 | 1110.7 | 1080.5 |
| 45°    | 1256.6 | 1197.9 | 1102.7 | 1025.0 | 996.4  |
| 47.5°  | 1182.1 | 1121.8 | 1023.4 | 942.5  | 910.7  |
| 50°    | 1105.9 | 1044.0 | 942.5  | 863.1  | 833.0  |
| 52.5°  | 1028.2 | 967.9  | 863.1  | 782.2  | 750.5  |
| 55°    | 952.0  | 888.5  | 785.4  | 702.9  | 672.7  |
| 57.5°  | 877.4  | 810.8  | 709.2  | 625.1  | 602.9  |
| 60°    | 796.5  | 733.0  | 631.5  | 549.0  | 523.6  |
| 62.5°  | 723.5  | 656.9  | 552.2  | 477.6  | 458.5  |
| 65°    | 647.4  | 579.1  | 477.6  | 409.4  | 390.3  |
| 67.5°  | 568.0  | 503.0  | 407.8  | 347.5  | 325.3  |
| 70°    | 493.5  | 426.8  | 336.4  | 284.0  | 268.1  |
| 72.5°  | 414.1  | 355.4  | 271.3  | 228.5  | 214.2  |
| 75°    | 344.3  | 285.6  | 211.0  | 174.5  | 165.0  |
| 77.5°  | 271.3  | 220.5  | 157.1  | 131.7  | 128.5  |
| 80°    | 201.5  | 155.5  | 107.9  | 103.1  | 101.5  |
| 82.5°  | 141.2  | 100.0  | 77.7   | 74.6   | 73.0   |
| 85°    | 85.7   | 53.9   | 49.2   | 46.0   | 46.0   |
| 87.5°  | 36.5   | 23.8   | 22.2   | 20.6   | 22.2   |
| 90°    | 3.5    | 16.1   | 25.3   | 32.2   | 34.5   |
| 92.5°  | 17.3   | 15.0   | 24.2   | 31.1   | 31.1   |
| 95°    | 63.3   | 24.2   | 25.3   | 32.2   | 33.4   |
| 97.5°  | 120.9  | 146.2  | 25.3   | 31.1   | 32.2   |
| 100°   | 188.8  | 209.5  | 50.7   | 31.1   | 32.2   |
| 102.5° | 264.8  | 278.6  | 292.4  | 33.4   | 33.4   |
| 105°   | 346.5  | 353.4  | 359.2  | 369.5  | 328.1  |
| 107.5° | 421.4  | 424.8  | 432.9  | 438.6  | 443.2  |
| 110°   | 497.3  | 500.8  | 507.7  | 510.0  | 513.4  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 571.0  | 577.9  | 580.2  | 579.1  | 583.7  |
| 115°   | 647.0  | 650.4  | 649.3  | 651.6  | 651.6  |
| 117.5° | 714.9  | 719.5  | 723.0  | 721.8  | 721.8  |
| 120°   | 784.0  | 788.6  | 787.4  | 789.7  | 787.4  |
| 122.5° | 848.5  | 850.8  | 853.1  | 854.2  | 851.9  |
| 125°   | 909.5  | 914.1  | 911.8  | 915.2  | 916.4  |
| 127.5° | 968.2  | 969.3  | 975.1  | 973.9  | 972.8  |
| 130°   | 1024.6 | 1025.7 | 1029.2 | 1030.4 | 1030.4 |
| 132.5° | 1076.4 | 1078.7 | 1083.3 | 1084.5 | 1083.3 |
| 135°   | 1128.2 | 1127.1 | 1131.7 | 1134.0 | 1136.3 |
| 137.5° | 1174.3 | 1174.3 | 1180.0 | 1182.3 | 1181.2 |
| 140°   | 1219.2 | 1221.5 | 1223.8 | 1227.2 | 1228.4 |
| 142.5° | 1259.4 | 1264.1 | 1265.2 | 1267.5 | 1267.5 |
| 145°   | 1300.9 | 1304.3 | 1304.3 | 1305.5 | 1307.8 |
| 147.5° | 1333.1 | 1340.0 | 1338.9 | 1340.0 | 1341.2 |
| 150°   | 1368.8 | 1373.4 | 1372.3 | 1372.3 | 1373.4 |
| 152.5° | 1398.7 | 1402.2 | 1399.9 | 1402.2 | 1401.1 |
| 155°   | 1426.4 | 1427.5 | 1424.1 | 1428.7 | 1425.2 |
| 157.5° | 1450.6 | 1450.6 | 1445.9 | 1451.7 | 1445.9 |
| 160°   | 1471.3 | 1467.8 | 1466.7 | 1473.6 | 1466.7 |
| 162.5° | 1489.7 | 1485.1 | 1483.9 | 1490.8 | 1482.8 |
| 165°   | 1504.7 | 1498.9 | 1498.9 | 1508.1 | 1497.8 |
| 167.5° | 1517.3 | 1511.6 | 1510.4 | 1520.8 | 1509.3 |
| 170°   | 1527.7 | 1520.8 | 1521.9 | 1531.1 | 1519.6 |
| 172.5° | 1534.6 | 1527.7 | 1528.8 | 1538.0 | 1525.4 |
| 175°   | 1539.2 | 1532.3 | 1533.4 | 1543.8 | 1530.0 |
| 177.5° | 1542.7 | 1534.6 | 1536.9 | 1546.1 | 1532.3 |
| 180°   | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 |

(END OF REPORT)