

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: P1025090

Luminaire Tested: S124DIP-B1195D1205UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025090  
REPORT IS A COMBINATION OF REPORTS P995510 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B1195D1205UB30-4F0-XX-W2A-F1  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

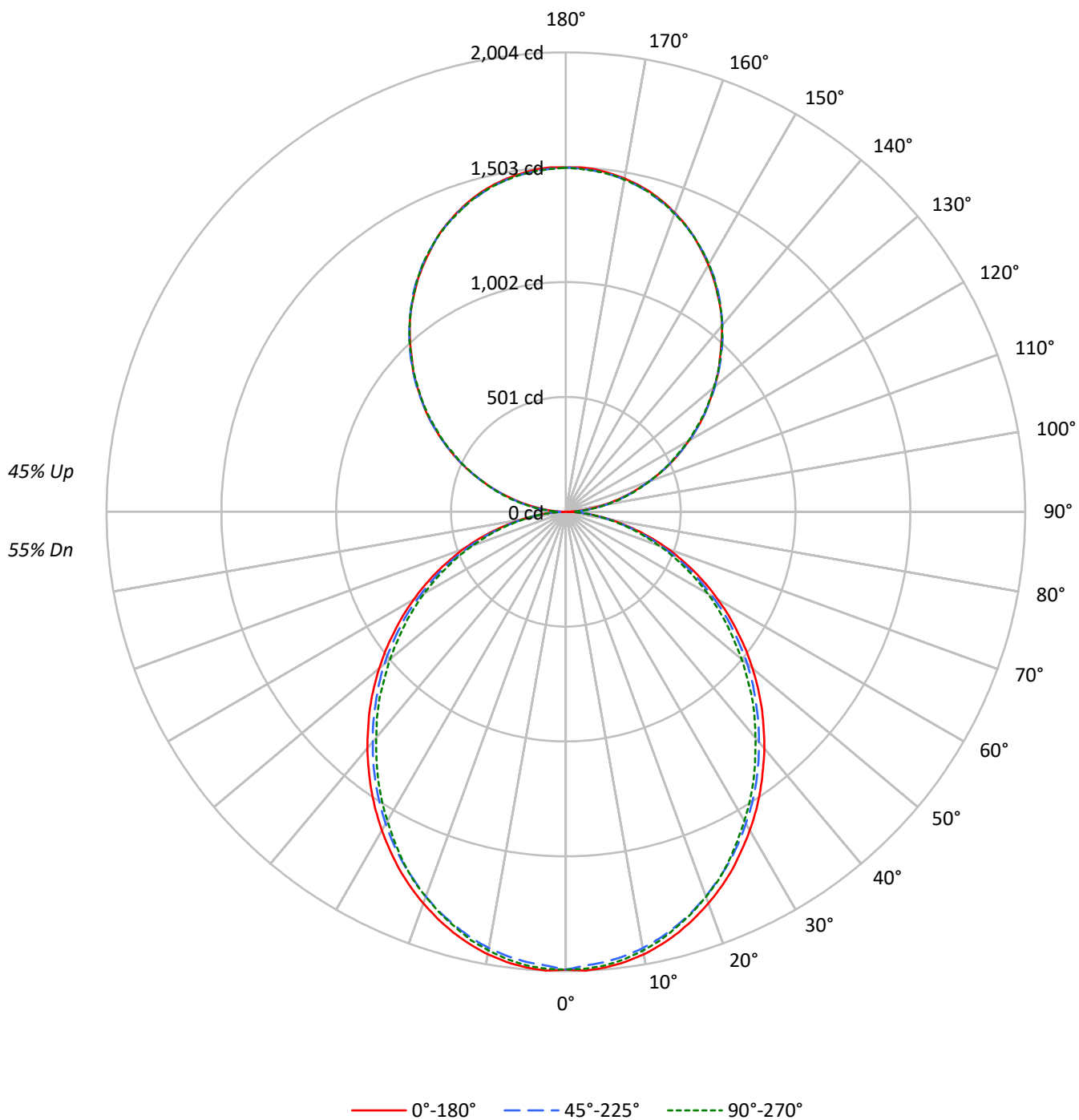
Lumens per Lamp: N/A  
Luminaire Lumens: 9295.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 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   | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 |
| 1   | 99  | 95  | 91  | 87  | 92  | 88  | 85  | 81  | 76 | 73 | 71 | 64 | 62 | 61 | 54 | 53 | 51 |
| 2   | 90  | 83  | 76  | 71  | 83  | 77  | 71  | 67  | 66 | 62 | 59 | 56 | 53 | 51 | 47 | 45 | 43 |
| 3   | 82  | 73  | 65  | 59  | 76  | 68  | 61  | 56  | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 |
| 4   | 75  | 64  | 56  | 50  | 70  | 60  | 53  | 47  | 52 | 46 | 42 | 44 | 40 | 37 | 37 | 34 | 32 |
| 5   | 69  | 57  | 49  | 43  | 64  | 54  | 46  | 41  | 46 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 |
| 6   | 64  | 51  | 43  | 37  | 59  | 48  | 41  | 35  | 42 | 36 | 32 | 36 | 31 | 28 | 31 | 27 | 24 |
| 7   | 59  | 46  | 38  | 33  | 55  | 44  | 36  | 31  | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 |
| 8   | 55  | 42  | 34  | 29  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 19 |
| 9   | 51  | 39  | 31  | 26  | 47  | 36  | 29  | 25  | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 18 |
| 10  | 48  | 35  | 28  | 23  | 44  | 33  | 27  | 22  | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 19 | 16 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16285 | 16285 | 16285 |
| 5°  | 16299 | 15817 | 15836 |
| 10° | 16161 | 15378 | 15270 |
| 15° | 15929 | 14856 | 14632 |
| 20° | 15633 | 14291 | 13971 |
| 25° | 15300 | 13695 | 13259 |
| 30° | 14899 | 13050 | 12478 |
| 35° | 14482 | 12389 | 11722 |
| 40° | 14048 | 11678 | 10919 |
| 45° | 13593 | 10965 | 10169 |
| 50° | 13090 | 10275 | 9337  |
| 55° | 12542 | 9467  | 8511  |
| 60° | 11982 | 8583  | 7650  |
| 65° | 11341 | 7671  | 6681  |
| 70° | 10604 | 6572  | 5643  |
| 75° | 9501  | 5298  | 4518  |
| 80° | 8094  | 3829  | 3178  |
| 85° | 6287  | 2132  | 1710  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13593 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 188.2  | 2.0       |
| 10°-20°   | 530.3  | 5.7       |
| 20°-30°   | 780.5  | 8.4       |
| 30°-40°   | 907.3  | 9.8       |
| 40°-50°   | 907.2  | 9.8       |
| 50°-60°   | 793.4  | 8.5       |
| 60°-70°   | 589.1  | 6.3       |
| 70°-80°   | 334.2  | 3.6       |
| 80°-90°   | 98.9   | 1.1       |
| 90°-100°  | 97.9   | 1.1       |
| 100°-110° | 293.1  | 3.2       |
| 110°-120° | 498.0  | 5.4       |
| 120°-130° | 656.7  | 7.1       |
| 130°-140° | 737.6  | 7.9       |
| 140°-150° | 725.0  | 7.8       |
| 150°-160° | 609.8  | 6.6       |
| 160°-170° | 405.7  | 4.4       |
| 170°-180° | 142.1  | 1.5       |
| 0°-30°    | 1499.1 | 16.1      |
| 0°-40°    | 2406.3 | 25.9      |
| 0°-60°    | 4107.0 | 44.2      |
| 0°-90°    | 5129.2 | 55.2      |
| 90°-120°  | 889.0  | 9.6       |
| 90°-150°  | 3008.3 | 32.4      |
| 90°-180°  | 4166.0 | 44.8      |
| 0°-180°   | 9295.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1997 | 1997  | 1997 | 1997  | 1997 |      |
| 5°   | 1996 | 1989  | 1972 | 1989  | 1986 | 189  |
| 15°  | 1900 | 1893  | 1869 | 1879  | 1874 | 535  |
| 25°  | 1720 | 1709  | 1687 | 1688  | 1682 | 792  |
| 35°  | 1480 | 1469  | 1447 | 1435  | 1427 | 926  |
| 45°  | 1208 | 1197  | 1171 | 1154  | 1149 | 931  |
| 55°  | 914  | 909   | 886  | 867   | 858  | 818  |
| 65°  | 619  | 611   | 595  | 579   | 571  | 613  |
| 75°  | 330  | 322   | 314  | 307   | 306  | 350  |
| 85°  | 86   | 86    | 83   | 83    | 82   | 93   |
| 90°  | 4    | 16    | 26   | 32    | 35   | 11   |
| 95°  | 70   | 80    | 88   | 92    | 92   | 75   |
| 105° | 271  | 272   | 276  | 280   | 283  | 287  |
| 115° | 506  | 506   | 504  | 503   | 502  | 499  |
| 125° | 737  | 737   | 736  | 734   | 732  | 657  |
| 135° | 951  | 958   | 958  | 956   | 952  | 736  |
| 145° | 1155 | 1160  | 1161 | 1160  | 1156 | 723  |
| 155° | 1324 | 1324  | 1323 | 1327  | 1323 | 609  |
| 165° | 1441 | 1438  | 1435 | 1442  | 1438 | 406  |
| 175° | 1499 | 1493  | 1492 | 1500  | 1492 | 142  |
| 180° | 1501 | 1501  | 1501 | 1501  | 1501 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1997.1 | 1997.1 | 1997.1 | 1997.1 | 1997.1 |
| 2.5°   | 2003.5 | 1998.7 | 1981.1 | 1997.1 | 1995.5 |
| 5°     | 1995.5 | 1989.1 | 1971.5 | 1989.1 | 1985.9 |
| 7.5°   | 1981.1 | 1974.7 | 1955.5 | 1969.9 | 1968.3 |
| 10°    | 1960.3 | 1953.9 | 1933.1 | 1945.9 | 1942.7 |
| 12.5°  | 1933.1 | 1926.7 | 1904.3 | 1918.7 | 1913.9 |
| 15°    | 1899.5 | 1893.1 | 1869.1 | 1878.7 | 1873.9 |
| 17.5°  | 1861.1 | 1853.1 | 1830.7 | 1837.1 | 1833.9 |
| 20°    | 1817.9 | 1809.9 | 1785.9 | 1790.7 | 1787.5 |
| 22.5°  | 1771.5 | 1760.3 | 1736.3 | 1745.9 | 1739.5 |
| 25°    | 1720.3 | 1709.1 | 1686.7 | 1688.3 | 1681.9 |
| 27.5°  | 1662.7 | 1651.5 | 1630.7 | 1627.5 | 1619.5 |
| 30°    | 1605.1 | 1592.3 | 1571.5 | 1565.1 | 1557.1 |
| 32.5°  | 1544.2 | 1533.0 | 1510.6 | 1502.6 | 1494.6 |
| 35°    | 1480.2 | 1469.0 | 1446.6 | 1435.4 | 1427.4 |
| 37.5°  | 1413.0 | 1403.4 | 1379.4 | 1368.2 | 1357.0 |
| 40°    | 1347.4 | 1334.6 | 1310.6 | 1294.6 | 1286.6 |
| 42.5°  | 1277.0 | 1270.6 | 1243.4 | 1224.2 | 1219.4 |
| 45°    | 1208.2 | 1197.0 | 1171.4 | 1153.8 | 1149.0 |
| 47.5°  | 1136.2 | 1128.2 | 1104.2 | 1085.0 | 1072.2 |
| 50°    | 1062.6 | 1056.2 | 1033.8 | 1011.4 | 1001.8 |
| 52.5°  | 990.6  | 982.6  | 958.6  | 939.4  | 926.5  |
| 55°    | 913.7  | 908.9  | 886.5  | 867.3  | 857.7  |
| 57.5°  | 841.7  | 836.9  | 814.5  | 795.3  | 785.7  |
| 60°    | 766.5  | 758.5  | 737.7  | 723.3  | 715.3  |
| 62.5°  | 692.9  | 686.5  | 664.1  | 651.3  | 643.3  |
| 65°    | 619.3  | 611.3  | 595.3  | 579.3  | 571.3  |
| 67.5°  | 544.1  | 537.7  | 521.7  | 505.7  | 504.1  |
| 70°    | 475.3  | 464.1  | 451.3  | 438.5  | 433.7  |
| 72.5°  | 401.7  | 390.5  | 380.9  | 371.3  | 366.5  |
| 75°    | 329.7  | 321.7  | 313.7  | 307.2  | 305.6  |
| 77.5°  | 259.2  | 256.0  | 248.0  | 246.4  | 241.6  |
| 80°    | 196.8  | 192.0  | 188.8  | 185.6  | 184.0  |
| 82.5°  | 136.0  | 134.4  | 134.4  | 132.8  | 131.2  |
| 85°    | 86.4   | 86.4   | 83.2   | 83.2   | 81.6   |
| 87.5°  | 41.6   | 40.0   | 38.4   | 38.4   | 38.4   |
| 90°    | 3.5    | 16.3   | 25.5   | 32.5   | 34.8   |
| 92.5°  | 30.2   | 45.3   | 51.1   | 54.6   | 55.7   |
| 95°    | 69.7   | 80.1   | 88.2   | 91.7   | 91.7   |
| 97.5°  | 111.5  | 120.8  | 130.1  | 134.7  | 134.7  |
| 100°   | 162.6  | 167.2  | 177.7  | 180.0  | 180.0  |
| 102.5° | 216.0  | 217.1  | 226.4  | 229.9  | 231.1  |
| 105°   | 270.6  | 271.7  | 276.4  | 279.8  | 283.3  |
| 107.5° | 327.4  | 328.6  | 329.8  | 334.4  | 333.3  |
| 110°   | 385.5  | 387.8  | 386.7  | 384.3  | 387.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 445.9  | 445.9  | 443.6  | 443.6  | 443.6  |
| 115°   | 506.3  | 506.3  | 503.9  | 502.8  | 501.6  |
| 117.5° | 563.2  | 563.2  | 562.0  | 558.5  | 555.0  |
| 120°   | 620.1  | 624.7  | 621.2  | 615.4  | 617.7  |
| 122.5° | 679.3  | 680.4  | 679.3  | 675.8  | 670.0  |
| 125°   | 737.3  | 737.3  | 736.2  | 733.9  | 731.5  |
| 127.5° | 789.6  | 793.1  | 790.8  | 788.4  | 787.3  |
| 130°   | 845.3  | 848.8  | 848.8  | 846.5  | 841.8  |
| 132.5° | 902.2  | 904.5  | 903.4  | 901.1  | 899.9  |
| 135°   | 951.0  | 958.0  | 958.0  | 955.6  | 952.2  |
| 137.5° | 1005.6 | 1009.1 | 1011.4 | 1007.9 | 1009.1 |
| 140°   | 1060.1 | 1062.5 | 1062.5 | 1061.3 | 1060.1 |
| 142.5° | 1110.1 | 1112.4 | 1111.2 | 1111.2 | 1111.2 |
| 145°   | 1155.4 | 1160.0 | 1161.2 | 1160.0 | 1156.5 |
| 147.5° | 1201.8 | 1207.6 | 1206.4 | 1205.3 | 1204.1 |
| 150°   | 1243.6 | 1248.3 | 1248.3 | 1248.3 | 1247.1 |
| 152.5° | 1283.1 | 1285.4 | 1286.6 | 1290.1 | 1286.6 |
| 155°   | 1323.7 | 1323.7 | 1322.6 | 1327.2 | 1322.6 |
| 157.5° | 1358.6 | 1356.2 | 1356.2 | 1359.7 | 1356.2 |
| 160°   | 1388.8 | 1387.6 | 1386.4 | 1389.9 | 1384.1 |
| 162.5° | 1416.6 | 1413.1 | 1412.0 | 1418.9 | 1413.1 |
| 165°   | 1441.0 | 1437.5 | 1435.2 | 1442.2 | 1437.5 |
| 167.5° | 1460.7 | 1456.1 | 1456.1 | 1463.1 | 1456.1 |
| 170°   | 1477.0 | 1471.2 | 1472.4 | 1479.3 | 1471.2 |
| 172.5° | 1488.6 | 1484.0 | 1484.0 | 1492.1 | 1484.0 |
| 175°   | 1499.1 | 1493.3 | 1492.1 | 1500.2 | 1492.1 |
| 177.5° | 1503.7 | 1497.9 | 1497.9 | 1506.0 | 1496.7 |
| 180°   | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 |

(END OF REPORT)