

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: P1025055

Luminaire Tested: S124DIP-B1195D1035UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025055  
REPORT IS A COMBINATION OF REPORTS P995460 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-F4  
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

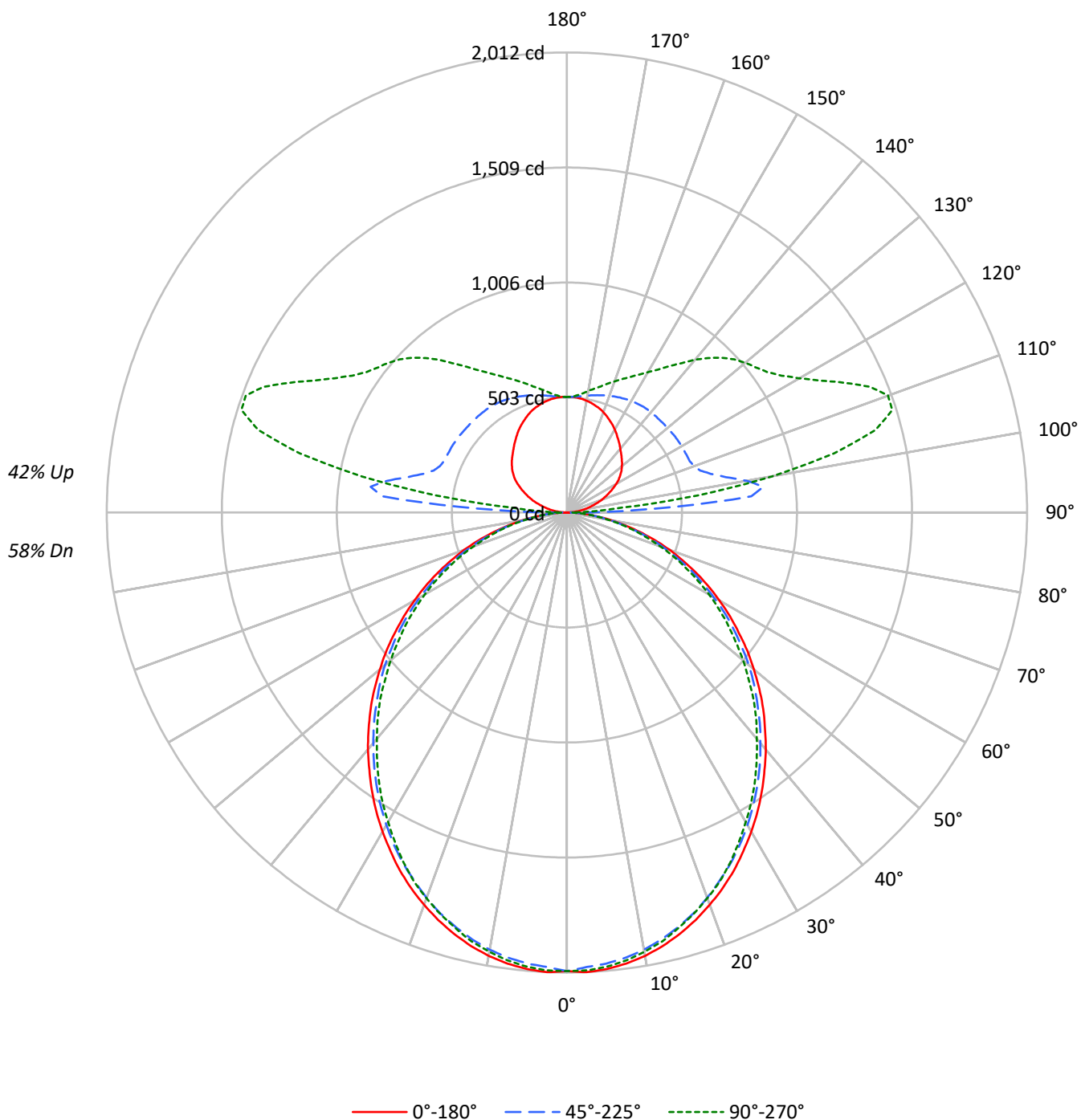
Lumens per Lamp: N/A  
Luminaire Lumens: 8837.4 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 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   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 64 | 64 | 64 |
| 1   | 100 | 95  | 91  | 88  | 93  | 89  | 85  | 82  | 77 | 75 | 72 | 66 | 64 | 63 | 56 | 55 | 54 |
| 2   | 91  | 83  | 77  | 72  | 84  | 78  | 72  | 68  | 68 | 63 | 60 | 58 | 55 | 52 | 50 | 47 | 45 |
| 3   | 83  | 73  | 66  | 60  | 77  | 68  | 62  | 56  | 60 | 54 | 50 | 51 | 48 | 44 | 44 | 41 | 39 |
| 4   | 76  | 65  | 57  | 51  | 70  | 61  | 53  | 48  | 53 | 47 | 43 | 46 | 42 | 38 | 39 | 36 | 33 |
| 5   | 70  | 58  | 49  | 43  | 65  | 54  | 47  | 41  | 47 | 42 | 37 | 41 | 37 | 33 | 35 | 32 | 29 |
| 6   | 64  | 52  | 44  | 38  | 60  | 49  | 41  | 36  | 43 | 37 | 32 | 37 | 33 | 29 | 32 | 28 | 26 |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 32  | 39 | 33 | 29 | 34 | 29 | 26 | 29 | 26 | 23 |
| 8   | 55  | 43  | 35  | 29  | 51  | 40  | 33  | 28  | 35 | 30 | 25 | 31 | 26 | 23 | 27 | 23 | 20 |
| 9   | 51  | 39  | 31  | 26  | 48  | 37  | 30  | 25  | 33 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 |
| 10  | 48  | 36  | 28  | 24  | 45  | 34  | 27  | 23  | 30 | 24 | 21 | 26 | 22 | 19 | 23 | 19 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16355 | 16355 | 16355 |
| 5°  | 16369 | 15885 | 15904 |
| 10° | 16230 | 15444 | 15336 |
| 15° | 15998 | 14919 | 14694 |
| 20° | 15700 | 14353 | 14031 |
| 25° | 15366 | 13753 | 13316 |
| 30° | 14962 | 13105 | 12531 |
| 35° | 14544 | 12442 | 11773 |
| 40° | 14109 | 11728 | 10966 |
| 45° | 13652 | 11012 | 10212 |
| 50° | 13146 | 10318 | 9377  |
| 55° | 12597 | 9508  | 8547  |
| 60° | 12034 | 8620  | 7684  |
| 65° | 11391 | 7704  | 6709  |
| 70° | 10648 | 6599  | 5666  |
| 75° | 9542  | 5320  | 4539  |
| 80° | 8131  | 3845  | 3192  |
| 85° | 6316  | 2142  | 1719  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13652 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 189.0  | 2.1       |
| 10°-20°   | 532.6  | 6.0       |
| 20°-30°   | 783.8  | 8.9       |
| 30°-40°   | 911.2  | 10.3      |
| 40°-50°   | 911.1  | 10.3      |
| 50°-60°   | 796.9  | 9.0       |
| 60°-70°   | 591.6  | 6.7       |
| 70°-80°   | 335.7  | 3.8       |
| 80°-90°   | 98.1   | 1.1       |
| 90°-100°  | 375.3  | 4.2       |
| 100°-110° | 763.4  | 8.6       |
| 110°-120° | 680.4  | 7.7       |
| 120°-130° | 571.5  | 6.5       |
| 130°-140° | 476.9  | 5.4       |
| 140°-150° | 364.2  | 4.1       |
| 150°-160° | 256.0  | 2.9       |
| 160°-170° | 150.6  | 1.7       |
| 170°-180° | 49.0   | 0.6       |
| 0°-30°    | 1505.5 | 17.0      |
| 0°-40°    | 2416.7 | 27.3      |
| 0°-60°    | 4124.6 | 46.7      |
| 0°-90°    | 5150.0 | 58.3      |
| 90°-120°  | 1819.1 | 20.6      |
| 90°-150°  | 3231.8 | 36.6      |
| 90°-180°  | 3687.0 | 41.7      |
| 0°-180°   | 8837.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2006 | 2006  | 2006 | 2006  | 2006 |      |
| 5°   | 2004 | 1998  | 1980 | 1998  | 1994 | 190  |
| 15°  | 1908 | 1901  | 1877 | 1887  | 1882 | 538  |
| 25°  | 1728 | 1716  | 1694 | 1696  | 1689 | 795  |
| 35°  | 1487 | 1475  | 1453 | 1442  | 1434 | 930  |
| 45°  | 1213 | 1202  | 1176 | 1159  | 1154 | 935  |
| 55°  | 918  | 913   | 890  | 871   | 861  | 822  |
| 65°  | 622  | 614   | 598  | 582   | 574  | 616  |
| 75°  | 331  | 323   | 315  | 309   | 307  | 351  |
| 85°  | 87   | 87    | 84   | 84    | 82   | 93   |
| 90°  | 1    | 8     | 18   | 20    | 21   | 8    |
| 95°  | 33   | 103   | 809  | 400   | 242  | 36   |
| 105° | 116  | 168   | 651  | 1402  | 1397 | 124  |
| 115° | 204  | 257   | 581  | 1116  | 1341 | 203  |
| 125° | 285  | 338   | 578  | 950   | 1070 | 254  |
| 135° | 338  | 403   | 573  | 843   | 957  | 262  |
| 145° | 390  | 447   | 570  | 711   | 781  | 245  |
| 155° | 444  | 479   | 554  | 627   | 654  | 205  |
| 165° | 483  | 498   | 531  | 562   | 571  | 137  |
| 175° | 504  | 505   | 509  | 516   | 514  | 48   |
| 180° | 505  | 505   | 505  | 505   | 505  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2005.7 | 2005.7 | 2005.7 | 2005.7 | 2005.7 |
| 2.5°   | 2012.1 | 2007.3 | 1989.6 | 2005.7 | 2004.1 |
| 5°     | 2004.1 | 1997.7 | 1980.0 | 1997.7 | 1994.4 |
| 7.5°   | 1989.6 | 1983.2 | 1963.9 | 1978.4 | 1976.8 |
| 10°    | 1968.7 | 1962.3 | 1941.4 | 1954.3 | 1951.1 |
| 12.5°  | 1941.4 | 1935.0 | 1912.5 | 1926.9 | 1922.1 |
| 15°    | 1907.7 | 1901.2 | 1877.1 | 1886.8 | 1881.9 |
| 17.5°  | 1869.1 | 1861.1 | 1838.6 | 1845.0 | 1841.8 |
| 20°    | 1825.7 | 1817.7 | 1793.6 | 1798.4 | 1795.2 |
| 22.5°  | 1779.1 | 1767.8 | 1743.7 | 1753.4 | 1746.9 |
| 25°    | 1727.7 | 1716.4 | 1693.9 | 1695.5 | 1689.1 |
| 27.5°  | 1669.8 | 1658.6 | 1637.7 | 1634.4 | 1626.4 |
| 30°    | 1611.9 | 1599.1 | 1578.2 | 1571.8 | 1563.7 |
| 32.5°  | 1550.9 | 1539.6 | 1517.1 | 1509.1 | 1501.1 |
| 35°    | 1486.6 | 1475.3 | 1452.8 | 1441.6 | 1433.6 |
| 37.5°  | 1419.1 | 1409.4 | 1385.3 | 1374.1 | 1362.8 |
| 40°    | 1353.2 | 1340.3 | 1316.2 | 1300.2 | 1292.1 |
| 42.5°  | 1282.5 | 1276.1 | 1248.7 | 1229.5 | 1224.6 |
| 45°    | 1213.4 | 1202.1 | 1176.4 | 1158.7 | 1153.9 |
| 47.5°  | 1141.1 | 1133.0 | 1108.9 | 1089.6 | 1076.8 |
| 50°    | 1067.1 | 1060.7 | 1038.2 | 1015.7 | 1006.1 |
| 52.5°  | 994.8  | 986.8  | 962.7  | 943.4  | 930.5  |
| 55°    | 917.7  | 912.8  | 890.3  | 871.1  | 861.4  |
| 57.5°  | 845.3  | 840.5  | 818.0  | 798.7  | 789.1  |
| 60°    | 769.8  | 761.8  | 740.9  | 726.4  | 718.4  |
| 62.5°  | 695.9  | 689.5  | 667.0  | 654.1  | 646.1  |
| 65°    | 622.0  | 613.9  | 597.9  | 581.8  | 573.7  |
| 67.5°  | 546.4  | 540.0  | 523.9  | 507.9  | 506.2  |
| 70°    | 477.3  | 466.1  | 453.2  | 440.4  | 435.5  |
| 72.5°  | 403.4  | 392.1  | 382.5  | 372.9  | 368.0  |
| 75°    | 331.1  | 323.0  | 315.0  | 308.6  | 307.0  |
| 77.5°  | 260.4  | 257.1  | 249.1  | 247.5  | 242.7  |
| 80°    | 197.7  | 192.9  | 189.6  | 186.4  | 184.8  |
| 82.5°  | 136.6  | 135.0  | 135.0  | 133.4  | 131.8  |
| 85°    | 86.8   | 86.8   | 83.6   | 83.6   | 82.0   |
| 87.5°  | 41.8   | 40.2   | 38.6   | 38.6   | 38.6   |
| 90°    | 1.0    | 7.9    | 17.9   | 19.9   | 20.8   |
| 92.5°  | 13.9   | 76.4   | 389.1  | 128.6  | 90.3   |
| 95°    | 32.8   | 103.2  | 809.0  | 400.5  | 242.2  |
| 97.5°  | 54.6   | 114.2  | 865.6  | 818.0  | 581.7  |
| 100°   | 75.4   | 129.0  | 798.1  | 1131.6 | 910.3  |
| 102.5° | 95.3   | 146.9  | 713.7  | 1328.2 | 1196.2 |
| 105°   | 116.1  | 168.3  | 651.2  | 1402.2 | 1396.7 |
| 107.5° | 139.0  | 190.1  | 610.5  | 1379.8 | 1492.0 |
| 110°   | 161.8  | 211.9  | 591.6  | 1300.4 | 1494.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 183.6 | 233.8 | 582.7 | 1203.1 | 1435.4 |
| 115°   | 204.5 | 256.6 | 580.7 | 1115.8 | 1341.1 |
| 117.5° | 226.3 | 278.0 | 579.7 | 1047.3 | 1248.8 |
| 120°   | 248.2 | 298.8 | 579.7 | 1001.2 | 1173.3 |
| 122.5° | 268.0 | 319.1 | 578.7 | 970.8  | 1113.8 |
| 125°   | 284.9 | 338.5 | 577.7 | 949.5  | 1070.1 |
| 127.5° | 300.8 | 356.4 | 575.8 | 929.2  | 1042.3 |
| 130°   | 313.7 | 373.7 | 574.8 | 904.8  | 1018.5 |
| 132.5° | 326.6 | 388.6 | 573.8 | 876.0  | 991.7  |
| 135°   | 338.5 | 403.0 | 572.8 | 842.8  | 956.9  |
| 137.5° | 350.4 | 415.4 | 572.8 | 807.0  | 916.2  |
| 140°   | 363.3 | 426.8 | 571.8 | 772.3  | 871.6  |
| 142.5° | 377.2 | 437.3 | 571.8 | 740.0  | 823.9  |
| 145°   | 390.1 | 446.7 | 569.8 | 710.8  | 781.2  |
| 147.5° | 405.0 | 455.6 | 566.8 | 686.4  | 741.5  |
| 150°   | 418.9 | 464.0 | 563.8 | 664.1  | 708.8  |
| 152.5° | 431.8 | 472.0 | 558.9 | 645.2  | 679.0  |
| 155°   | 443.7 | 479.0 | 553.9 | 627.3  | 654.2  |
| 157.5° | 455.6 | 485.4 | 548.9 | 610.5  | 631.3  |
| 160°   | 466.6 | 490.8 | 543.0 | 593.6  | 610.5  |
| 162.5° | 476.5 | 495.4 | 537.0 | 577.2  | 590.6  |
| 165°   | 483.4 | 498.3 | 531.1 | 562.3  | 570.8  |
| 167.5° | 491.4 | 500.8 | 525.1 | 549.4  | 554.9  |
| 170°   | 496.3 | 502.8 | 519.2 | 536.6  | 540.0  |
| 172.5° | 501.3 | 504.3 | 513.2 | 525.1  | 525.1  |
| 175°   | 504.3 | 505.3 | 509.2 | 516.2  | 514.2  |
| 177.5° | 506.3 | 505.3 | 506.3 | 509.7  | 506.3  |
| 180°   | 505.3 | 505.3 | 505.3 | 505.3  | 505.3  |

(END OF REPORT)