

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: P1025774

Luminaire Tested: S124DIP-B795D1205UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025774  
REPORT IS A COMBINATION OF REPORTS P996419 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B795D1205UB35-4F0-XX-W2A-F1  
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

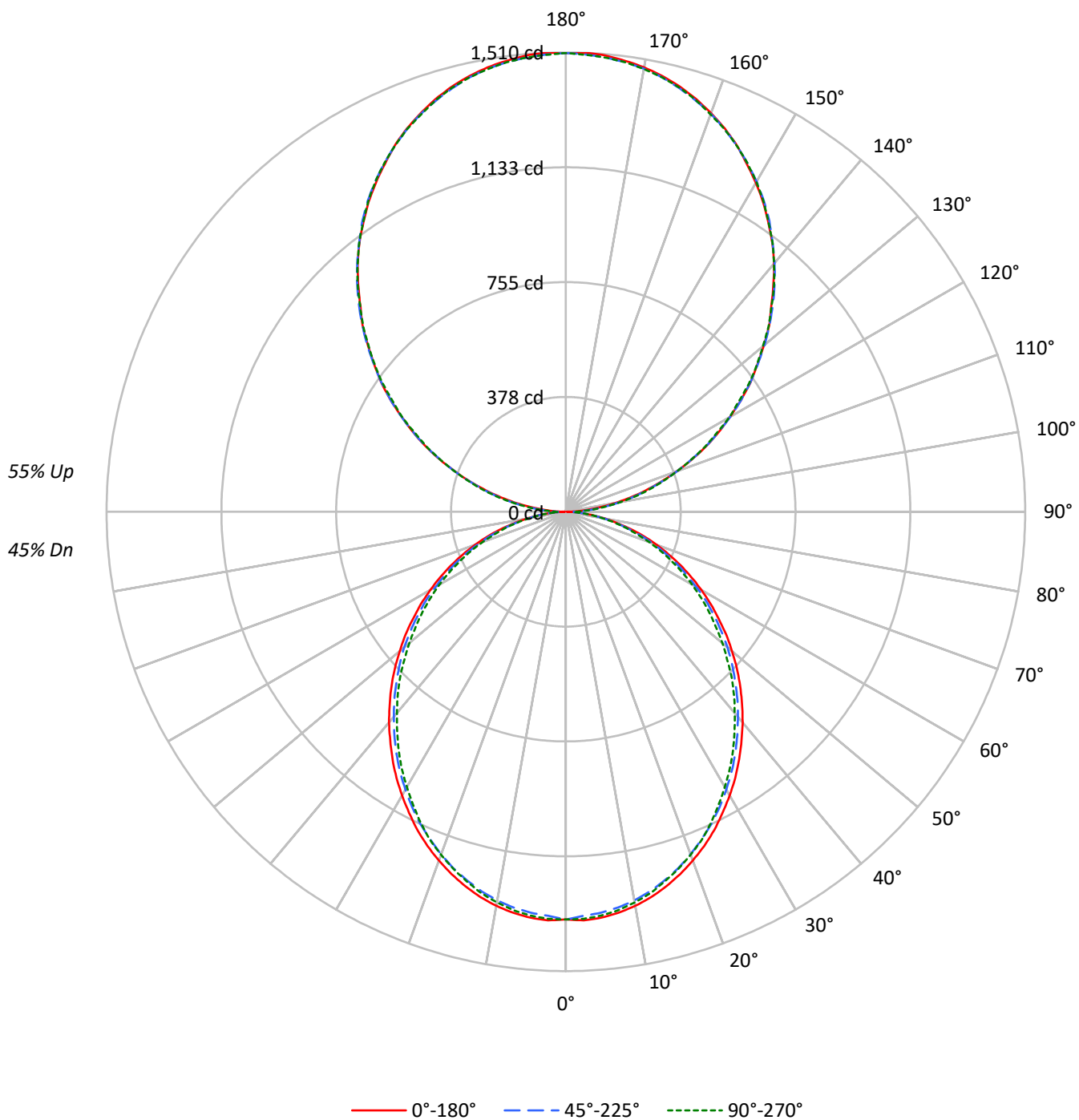
Lumens per Lamp: N/A  
Luminaire Lumens: 7627.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 70.9  
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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 |
| 1   | 97  | 92  | 88  | 85  | 88 | 85 | 81 | 78 | 71 | 68 | 66 | 58 | 56 | 54 | 46 | 45 | 44 |
| 2   | 88  | 81  | 75  | 69  | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 51 | 48 | 45 | 40 | 38 | 37 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 41 | 38 | 36 | 33 | 31 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 23 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 21 |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 18 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 |
| 9   | 49  | 37  | 30  | 25  | 45 | 35 | 28 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10929 | 10929 | 10929 |
| 5°  | 10938 | 10615 | 10627 |
| 10° | 10845 | 10320 | 10247 |
| 15° | 10690 | 9969  | 9820  |
| 20° | 10491 | 9591  | 9376  |
| 25° | 10268 | 9190  | 8898  |
| 30° | 9998  | 8757  | 8374  |
| 35° | 9719  | 8314  | 7867  |
| 40° | 9427  | 7837  | 7328  |
| 45° | 9122  | 7359  | 6824  |
| 50° | 8785  | 6895  | 6266  |
| 55° | 8417  | 6353  | 5711  |
| 60° | 8041  | 5760  | 5134  |
| 65° | 7611  | 5148  | 4484  |
| 70° | 7117  | 4409  | 3786  |
| 75° | 6374  | 3555  | 3032  |
| 80° | 5433  | 2570  | 2133  |
| 85° | 4221  | 1430  | 1149  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9122 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.3  | 1.7       |
| 10°-20°   | 355.9  | 4.7       |
| 20°-30°   | 523.8  | 6.9       |
| 30°-40°   | 608.9  | 8.0       |
| 40°-50°   | 608.8  | 8.0       |
| 50°-60°   | 532.5  | 7.0       |
| 60°-70°   | 395.3  | 5.2       |
| 70°-80°   | 224.3  | 2.9       |
| 80°-90°   | 67.5   | 0.9       |
| 90°-100°  | 98.3   | 1.3       |
| 100°-110° | 294.4  | 3.9       |
| 110°-120° | 500.1  | 6.6       |
| 120°-130° | 659.6  | 8.6       |
| 130°-140° | 740.8  | 9.7       |
| 140°-150° | 728.1  | 9.5       |
| 150°-160° | 612.4  | 8.0       |
| 160°-170° | 407.5  | 5.3       |
| 170°-180° | 142.7  | 1.9       |
| 0°-30°    | 1006.0 | 13.2      |
| 0°-40°    | 1614.9 | 21.2      |
| 0°-60°    | 2756.1 | 36.1      |
| 0°-90°    | 3443.2 | 45.1      |
| 90°-120°  | 892.8  | 11.7      |
| 90°-150°  | 3021.3 | 39.6      |
| 90°-180°  | 4184.0 | 54.9      |
| 0°-180°   | 7627.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1340 | 1340  | 1340 | 1340  | 1340 |      |
| 5°   | 1339 | 1335  | 1323 | 1335  | 1333 | 127  |
| 15°  | 1275 | 1270  | 1254 | 1261  | 1258 | 359  |
| 25°  | 1154 | 1147  | 1132 | 1133  | 1129 | 531  |
| 35°  | 993  | 986   | 971  | 963   | 958  | 621  |
| 45°  | 811  | 803   | 786  | 774   | 771  | 625  |
| 55°  | 613  | 610   | 595  | 582   | 576  | 549  |
| 65°  | 416  | 410   | 400  | 389   | 383  | 411  |
| 75°  | 221  | 216   | 210  | 206   | 205  | 235  |
| 85°  | 58   | 58    | 56   | 56    | 55   | 62   |
| 90°  | 4    | 16    | 26   | 33    | 35   | 9    |
| 95°  | 70   | 80    | 89   | 92    | 92   | 76   |
| 105° | 272  | 273   | 278  | 281   | 284  | 288  |
| 115° | 508  | 508   | 506  | 505   | 504  | 501  |
| 125° | 740  | 740   | 739  | 737   | 735  | 660  |
| 135° | 955  | 962   | 962  | 960   | 956  | 739  |
| 145° | 1160 | 1165  | 1166 | 1165  | 1162 | 726  |
| 155° | 1329 | 1329  | 1328 | 1333  | 1328 | 612  |
| 165° | 1447 | 1444  | 1441 | 1448  | 1444 | 408  |
| 175° | 1506 | 1500  | 1498 | 1507  | 1498 | 143  |
| 180° | 1508 | 1508  | 1508 | 1508  | 1508 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1340.2 | 1340.2 | 1340.2 | 1340.2 | 1340.2 |
| 2.5°   | 1344.5 | 1341.3 | 1329.5 | 1340.2 | 1339.2 |
| 5°     | 1339.2 | 1334.9 | 1323.1 | 1334.9 | 1332.7 |
| 7.5°   | 1329.5 | 1325.2 | 1312.3 | 1322.0 | 1320.9 |
| 10°    | 1315.5 | 1311.2 | 1297.3 | 1305.9 | 1303.7 |
| 12.5°  | 1297.3 | 1293.0 | 1278.0 | 1287.6 | 1284.4 |
| 15°    | 1274.7 | 1270.4 | 1254.3 | 1260.8 | 1257.6 |
| 17.5°  | 1249.0 | 1243.6 | 1228.6 | 1232.9 | 1230.7 |
| 20°    | 1220.0 | 1214.6 | 1198.5 | 1201.7 | 1199.6 |
| 22.5°  | 1188.8 | 1181.3 | 1165.2 | 1171.6 | 1167.3 |
| 25°    | 1154.5 | 1146.9 | 1131.9 | 1133.0 | 1128.7 |
| 27.5°  | 1115.8 | 1108.3 | 1094.3 | 1092.2 | 1086.8 |
| 30°    | 1077.1 | 1068.5 | 1054.6 | 1050.3 | 1044.9 |
| 32.5°  | 1036.3 | 1028.8 | 1013.8 | 1008.4 | 1003.0 |
| 35°    | 993.4  | 985.9  | 970.8  | 963.3  | 957.9  |
| 37.5°  | 948.3  | 941.8  | 925.7  | 918.2  | 910.7  |
| 40°    | 904.2  | 895.6  | 879.5  | 868.8  | 863.4  |
| 42.5°  | 857.0  | 852.7  | 834.4  | 821.5  | 818.3  |
| 45°    | 810.8  | 803.3  | 786.1  | 774.3  | 771.1  |
| 47.5°  | 762.5  | 757.1  | 741.0  | 728.1  | 719.5  |
| 50°    | 713.1  | 708.8  | 693.7  | 678.7  | 672.3  |
| 52.5°  | 664.8  | 659.4  | 643.3  | 630.4  | 621.8  |
| 55°    | 613.2  | 610.0  | 594.9  | 582.1  | 575.6  |
| 57.5°  | 564.9  | 561.7  | 546.6  | 533.7  | 527.3  |
| 60°    | 514.4  | 509.0  | 495.1  | 485.4  | 480.0  |
| 62.5°  | 465.0  | 460.7  | 445.7  | 437.1  | 431.7  |
| 65°    | 415.6  | 410.2  | 399.5  | 388.8  | 383.4  |
| 67.5°  | 365.1  | 360.8  | 350.1  | 339.4  | 338.3  |
| 70°    | 319.0  | 311.4  | 302.8  | 294.3  | 291.0  |
| 72.5°  | 269.6  | 262.0  | 255.6  | 249.1  | 245.9  |
| 75°    | 221.2  | 215.9  | 210.5  | 206.2  | 205.1  |
| 77.5°  | 174.0  | 171.8  | 166.5  | 165.4  | 162.2  |
| 80°    | 132.1  | 128.9  | 126.7  | 124.6  | 123.5  |
| 82.5°  | 91.3   | 90.2   | 90.2   | 89.1   | 88.1   |
| 85°    | 58.0   | 58.0   | 55.8   | 55.8   | 54.8   |
| 87.5°  | 27.9   | 26.8   | 25.8   | 25.8   | 25.8   |
| 90°    | 3.5    | 16.3   | 25.7   | 32.7   | 35.0   |
| 92.5°  | 30.3   | 45.5   | 51.3   | 54.8   | 56.0   |
| 95°    | 70.0   | 80.5   | 88.6   | 92.1   | 92.1   |
| 97.5°  | 112.0  | 121.3  | 130.6  | 135.3  | 135.3  |
| 100°   | 163.3  | 167.9  | 178.4  | 180.8  | 180.8  |
| 102.5° | 216.9  | 218.1  | 227.4  | 230.9  | 232.1  |
| 105°   | 271.7  | 272.9  | 277.6  | 281.0  | 284.5  |
| 107.5° | 328.9  | 330.0  | 331.2  | 335.9  | 334.7  |
| 110°   | 387.2  | 389.5  | 388.3  | 386.0  | 389.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 447.8  | 447.8  | 445.5  | 445.5  | 445.5  |
| 115°   | 508.5  | 508.5  | 506.1  | 505.0  | 503.8  |
| 117.5° | 565.6  | 565.6  | 564.4  | 560.9  | 557.4  |
| 120°   | 622.7  | 627.4  | 623.9  | 618.1  | 620.4  |
| 122.5° | 682.2  | 683.4  | 682.2  | 678.7  | 672.9  |
| 125°   | 740.5  | 740.5  | 739.4  | 737.0  | 734.7  |
| 127.5° | 793.0  | 796.5  | 794.2  | 791.8  | 790.7  |
| 130°   | 849.0  | 852.5  | 852.5  | 850.1  | 845.5  |
| 132.5° | 906.1  | 908.5  | 907.3  | 905.0  | 903.8  |
| 135°   | 955.1  | 962.1  | 962.1  | 959.8  | 956.3  |
| 137.5° | 1009.9 | 1013.4 | 1015.7 | 1012.2 | 1013.4 |
| 140°   | 1064.7 | 1067.1 | 1067.1 | 1065.9 | 1064.7 |
| 142.5° | 1114.9 | 1117.2 | 1116.0 | 1116.0 | 1116.0 |
| 145°   | 1160.3 | 1165.0 | 1166.2 | 1165.0 | 1161.5 |
| 147.5° | 1207.0 | 1212.8 | 1211.7 | 1210.5 | 1209.3 |
| 150°   | 1249.0 | 1253.6 | 1253.6 | 1253.6 | 1252.5 |
| 152.5° | 1288.6 | 1291.0 | 1292.1 | 1295.6 | 1292.1 |
| 155°   | 1329.4 | 1329.4 | 1328.3 | 1332.9 | 1328.3 |
| 157.5° | 1364.4 | 1362.1 | 1362.1 | 1365.6 | 1362.1 |
| 160°   | 1394.7 | 1393.6 | 1392.4 | 1395.9 | 1390.1 |
| 162.5° | 1422.7 | 1419.2 | 1418.1 | 1425.1 | 1419.2 |
| 165°   | 1447.2 | 1443.7 | 1441.4 | 1448.4 | 1443.7 |
| 167.5° | 1467.1 | 1462.4 | 1462.4 | 1469.4 | 1462.4 |
| 170°   | 1483.4 | 1477.5 | 1478.7 | 1485.7 | 1477.5 |
| 172.5° | 1495.0 | 1490.4 | 1490.4 | 1498.5 | 1490.4 |
| 175°   | 1505.5 | 1499.7 | 1498.5 | 1506.7 | 1498.5 |
| 177.5° | 1510.2 | 1504.4 | 1504.4 | 1512.5 | 1503.2 |
| 180°   | 1507.9 | 1507.9 | 1507.9 | 1507.9 | 1507.9 |

(END OF REPORT)