

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: P1007654

Luminaire Tested: S124IP-B1205UB2750-4F0-XX-W2A-1\_3500K

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124IP-B1205UB2750-4F0-XX-W2A-1\_3500K  
Description: Define 4 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

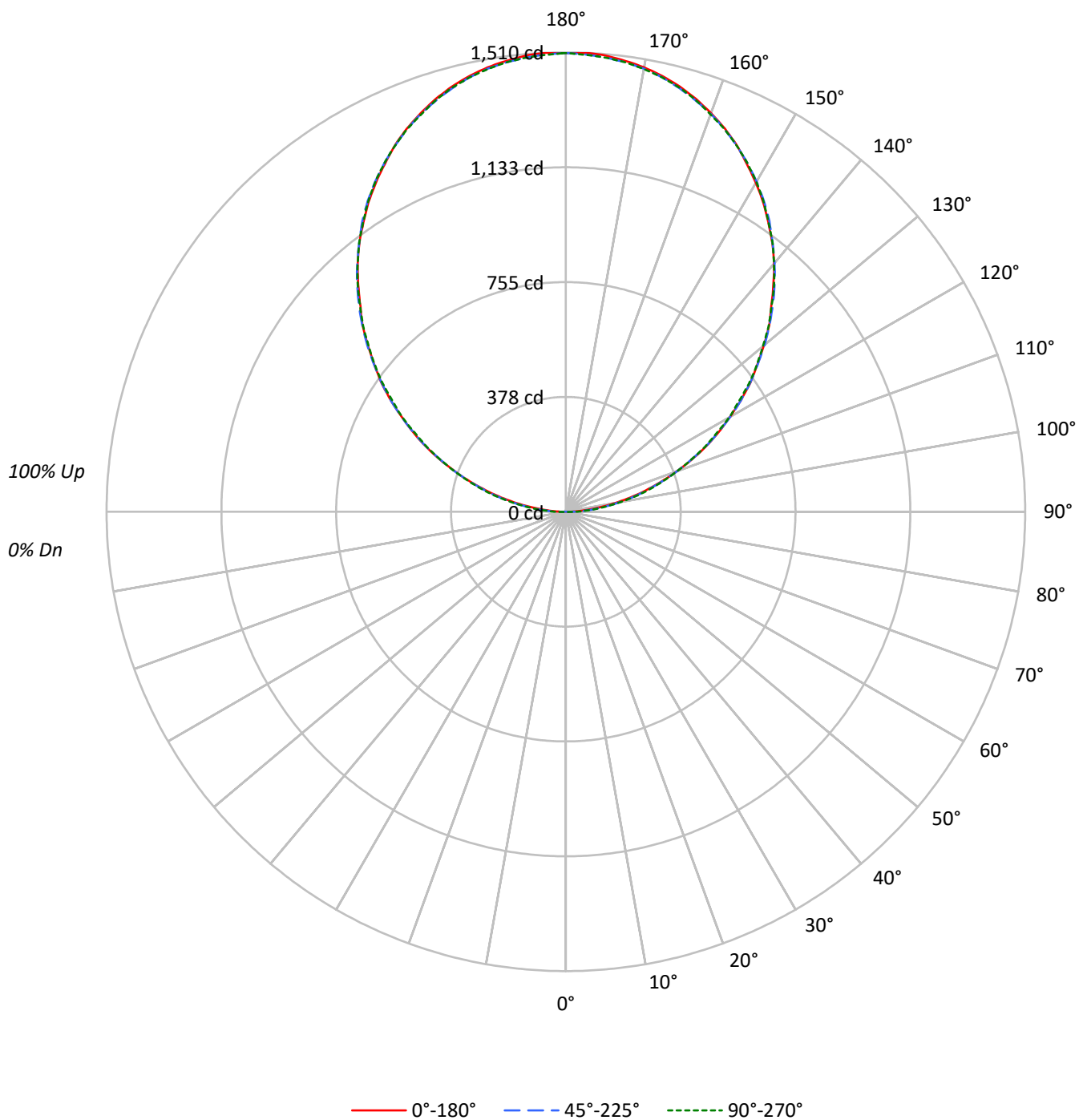
Lumens per Lamp: N/A  
Luminaire Lumens: 4187.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 35  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  |
| 3   | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  |

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

|     | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0°  | 0  | 0   | 0   |
| 5°  | 0  | 0   | 0   |
| 10° | 0  | 0   | 0   |
| 15° | 0  | 0   | 0   |
| 20° | 0  | 0   | 0   |
| 25° | 0  | 0   | 0   |
| 30° | 0  | 0   | 0   |
| 35° | 0  | 0   | 0   |
| 40° | 0  | 0   | 0   |
| 45° | 0  | 0   | 0   |
| 50° | 0  | 0   | 0   |
| 55° | 0  | 0   | 0   |
| 60° | 0  | 0   | 0   |
| 65° | 0  | 0   | 0   |
| 70° | 0  | 0   | 0   |
| 75° | 0  | 0   | 0   |
| 80° | 0  | 0   | 0   |
| 85° | 0  | 0   | 0   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 0°  
Luminance: 0 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.0    | 0.0       |
| 10°-20°   | 0.0    | 0.0       |
| 20°-30°   | 0.0    | 0.0       |
| 30°-40°   | 0.0    | 0.0       |
| 40°-50°   | 0.0    | 0.0       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 3.2    | 0.1       |
| 90°-100°  | 98.3   | 2.3       |
| 100°-110° | 294.4  | 7.0       |
| 110°-120° | 500.1  | 11.9      |
| 120°-130° | 659.6  | 15.8      |
| 130°-140° | 740.8  | 17.7      |
| 140°-150° | 728.1  | 17.4      |
| 150°-160° | 612.4  | 14.6      |
| 160°-170° | 407.5  | 9.7       |
| 170°-180° | 142.7  | 3.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 3.2    | 0.1       |
| 90°-120°  | 892.8  | 21.3      |
| 90°-150°  | 3021.3 | 72.2      |
| 90°-180°  | 4184.0 | 99.9      |
| 0°-180°   | 4187.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 0    | 0     | 0    | 0     | 0    |      |
| 5°   | 0    | 0     | 0    | 0     | 0    | 0    |
| 15°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 25°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 35°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 45°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 55°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 65°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 75°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 85°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 90°  | 4    | 16    | 26   | 33    | 35   | 5    |
| 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°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 32.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 35°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 37.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 40°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 42.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 45°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 47.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 50°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 52.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)