

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: P1007626

Luminaire Tested: S124IP-B1035UB2750-4F0-XX-W2A-1\_5000K

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007626  
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-B1035UB2750-4F0-XX-W2A-1\_5000K  
Description: Define 4 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

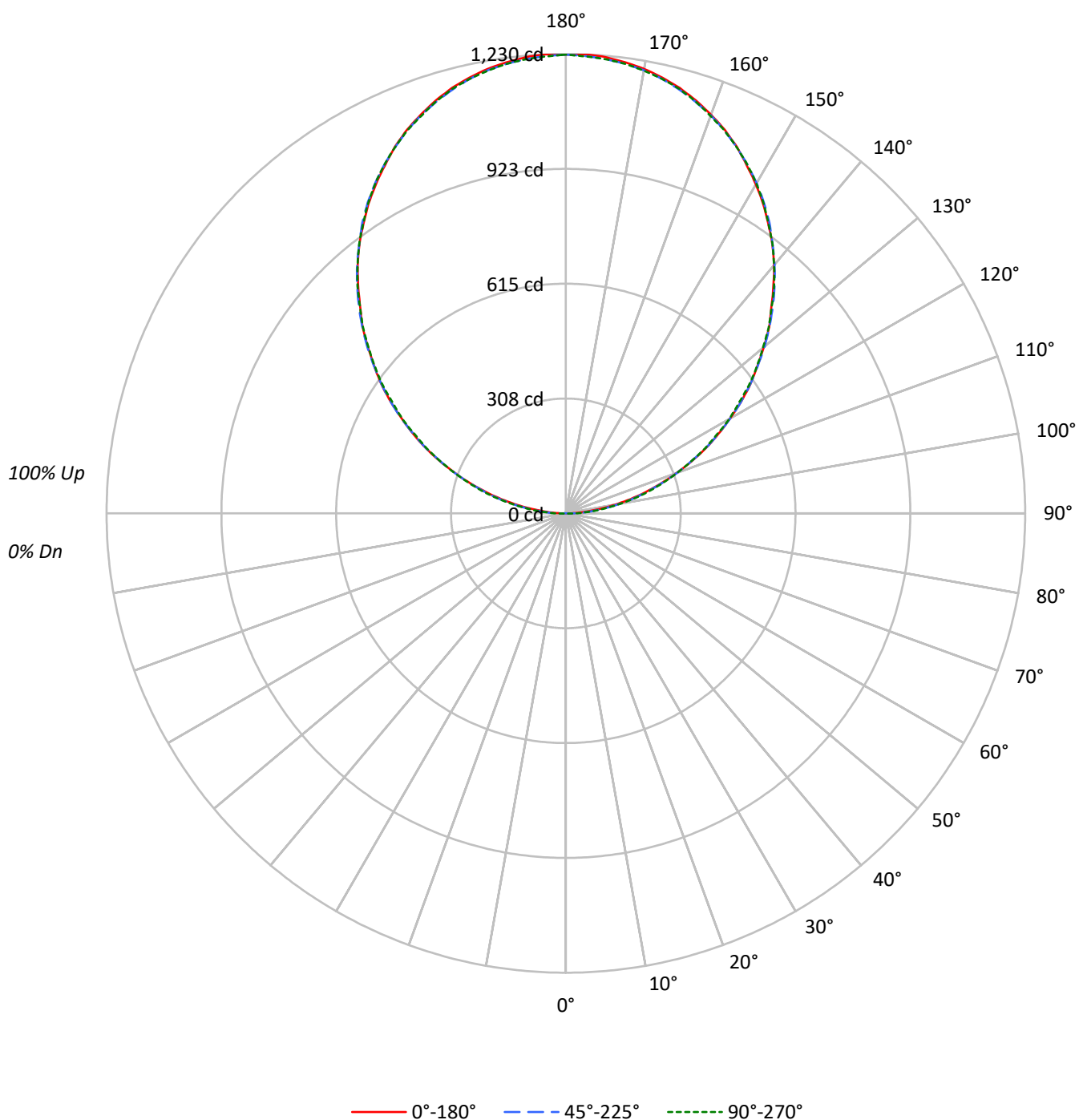
Lumens per Lamp: N/A  
Luminaire Lumens: 3411.0 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 28.5  
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   | 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°   | 2.6    | 0.1       |
| 90°-100°  | 80.1   | 2.3       |
| 100°-110° | 239.8  | 7.0       |
| 110°-120° | 407.4  | 11.9      |
| 120°-130° | 537.3  | 15.8      |
| 130°-140° | 603.5  | 17.7      |
| 140°-150° | 593.2  | 17.4      |
| 150°-160° | 498.9  | 14.6      |
| 160°-170° | 332.0  | 9.7       |
| 170°-180° | 116.2  | 3.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 2.6    | 0.1       |
| 90°-120°  | 727.4  | 21.3      |
| 90°-150°  | 2461.3 | 72.2      |
| 90°-180°  | 3408.0 | 99.9      |
| 0°-180°   | 3411.0 | 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°  | 3    | 13    | 21   | 27    | 28   | 4    |
| 95°  | 57   | 66    | 72   | 75    | 75   | 62   |
| 105° | 221  | 222   | 226  | 229   | 232  | 235  |
| 115° | 414  | 414   | 412  | 411   | 410  | 409  |
| 125° | 603  | 603   | 602  | 600   | 598  | 538  |
| 135° | 778  | 784   | 784  | 782   | 779  | 602  |
| 145° | 945  | 949   | 950  | 949   | 946  | 592  |
| 155° | 1083 | 1083  | 1082 | 1086  | 1082 | 498  |
| 165° | 1179 | 1176  | 1174 | 1180  | 1176 | 332  |
| 175° | 1226 | 1222  | 1221 | 1228  | 1221 | 116  |
| 180° | 1228 | 1228  | 1228 | 1228  | 1228 |      |

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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°    | 2.9   | 13.3  | 20.9  | 26.6  | 28.5  |
| 92.5°  | 24.7  | 37.1  | 41.8  | 44.7  | 45.6  |
| 95°    | 57.0  | 65.6  | 72.2  | 75.1  | 75.1  |
| 97.5°  | 91.2  | 98.8  | 106.4 | 110.2 | 110.2 |
| 100°   | 133.0 | 136.8 | 145.4 | 147.3 | 147.3 |
| 102.5° | 176.7 | 177.7 | 185.3 | 188.1 | 189.1 |
| 105°   | 221.4 | 222.3 | 226.1 | 229.0 | 231.8 |
| 107.5° | 267.9 | 268.9 | 269.8 | 273.6 | 272.7 |
| 110°   | 315.4 | 317.3 | 316.4 | 314.5 | 317.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 364.8  | 364.8  | 362.9  | 362.9  | 362.9  |
| 115°   | 414.2  | 414.2  | 412.3  | 411.4  | 410.4  |
| 117.5° | 460.8  | 460.8  | 459.8  | 457.0  | 454.1  |
| 120°   | 507.3  | 511.1  | 508.3  | 503.5  | 505.4  |
| 122.5° | 555.8  | 556.7  | 555.8  | 552.9  | 548.2  |
| 125°   | 603.3  | 603.3  | 602.3  | 600.4  | 598.5  |
| 127.5° | 646.0  | 648.9  | 647.0  | 645.1  | 644.1  |
| 130°   | 691.6  | 694.5  | 694.5  | 692.6  | 688.8  |
| 132.5° | 738.2  | 740.1  | 739.1  | 737.2  | 736.3  |
| 135°   | 778.1  | 783.8  | 783.8  | 781.9  | 779.0  |
| 137.5° | 822.7  | 825.6  | 827.5  | 824.6  | 825.6  |
| 140°   | 867.4  | 869.3  | 869.3  | 868.3  | 867.4  |
| 142.5° | 908.2  | 910.1  | 909.2  | 909.2  | 909.2  |
| 145°   | 945.3  | 949.1  | 950.0  | 949.1  | 946.2  |
| 147.5° | 983.3  | 988.0  | 987.1  | 986.1  | 985.2  |
| 150°   | 1017.5 | 1021.3 | 1021.3 | 1021.3 | 1020.3 |
| 152.5° | 1049.8 | 1051.7 | 1052.6 | 1055.5 | 1052.6 |
| 155°   | 1083.0 | 1083.0 | 1082.1 | 1085.9 | 1082.1 |
| 157.5° | 1111.6 | 1109.7 | 1109.7 | 1112.5 | 1109.7 |
| 160°   | 1136.3 | 1135.3 | 1134.4 | 1137.2 | 1132.5 |
| 162.5° | 1159.1 | 1156.2 | 1155.3 | 1161.0 | 1156.2 |
| 165°   | 1179.0 | 1176.2 | 1174.3 | 1180.0 | 1176.2 |
| 167.5° | 1195.2 | 1191.4 | 1191.4 | 1197.1 | 1191.4 |
| 170°   | 1208.5 | 1203.7 | 1204.7 | 1210.4 | 1203.7 |
| 172.5° | 1218.0 | 1214.2 | 1214.2 | 1220.8 | 1214.2 |
| 175°   | 1226.5 | 1221.8 | 1220.8 | 1227.5 | 1220.8 |
| 177.5° | 1230.3 | 1225.6 | 1225.6 | 1232.2 | 1224.6 |
| 180°   | 1228.4 | 1228.4 | 1228.4 | 1228.4 | 1228.4 |

(END OF REPORT)