

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: P1007501

Luminaire Tested: S123IP-B1195UB27-4F0-XX-W2A

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123IP-B1195UB27-4F0-XX-W2A  
Description: Define 3 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

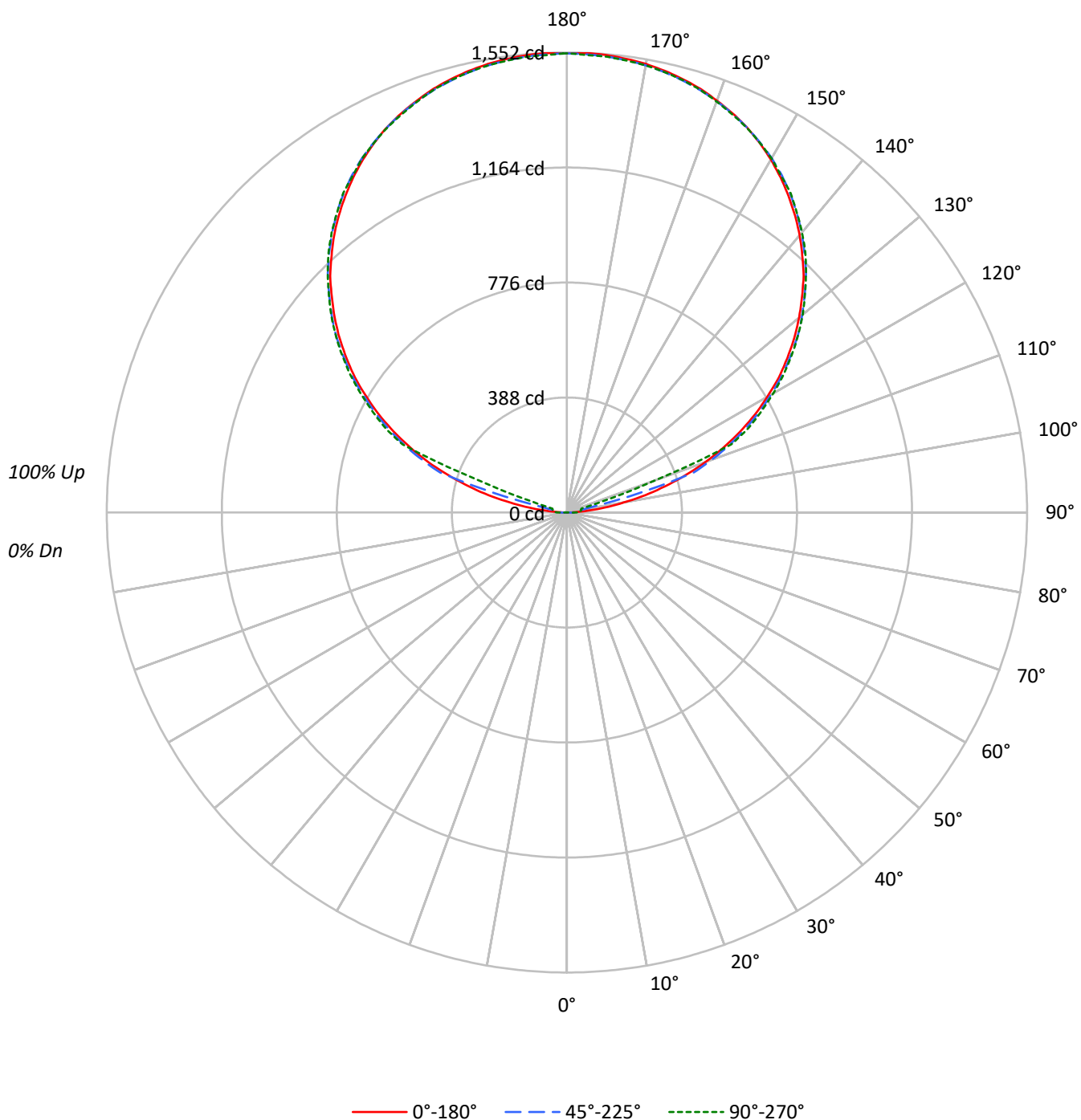
Lumens per Lamp: N/A  
Luminaire Lumens: 4726.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 35  
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°   | 3.1    | 0.1       |
| 90°-100°  | 54.6   | 1.2       |
| 100°-110° | 264.1  | 5.6       |
| 110°-120° | 647.3  | 13.7      |
| 120°-130° | 821.7  | 17.4      |
| 130°-140° | 877.8  | 18.6      |
| 140°-150° | 820.8  | 17.4      |
| 150°-160° | 662.1  | 14.0      |
| 160°-170° | 427.3  | 9.0       |
| 170°-180° | 147.2  | 3.1       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 3.1    | 0.1       |
| 90°-120°  | 966.0  | 20.4      |
| 90°-150°  | 3486.3 | 73.8      |
| 90°-180°  | 4723.0 | 99.9      |
| 0°-180°   | 4726.0 | 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°  | 1    | 13    | 28   | 32    | 34   | 4    |
| 95°  | 70   | 23    | 36   | 44    | 44   | 84   |
| 105° | 343  | 356   | 252  | 48    | 51   | 364  |
| 115° | 643  | 650   | 661  | 672   | 677  | 635  |
| 125° | 907  | 916   | 921  | 923   | 925  | 810  |
| 135° | 1129 | 1136  | 1141 | 1144  | 1141 | 869  |
| 145° | 1303 | 1311  | 1313 | 1316  | 1316 | 816  |
| 155° | 1435 | 1433  | 1434 | 1440  | 1433 | 661  |
| 165° | 1514 | 1510  | 1509 | 1518  | 1510 | 428  |
| 175° | 1549 | 1544  | 1545 | 1553  | 1544 | 147  |
| 180° | 1549 | 1549  | 1549 | 1549  | 1549 |      |

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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°    | 1.2   | 12.7  | 27.6  | 32.2  | 34.5  |
| 92.5°  | 26.5  | 19.6  | 29.9  | 38.0  | 39.1  |
| 95°    | 70.2  | 23.0  | 35.7  | 43.7  | 43.7  |
| 97.5°  | 127.8 | 95.5  | 36.8  | 46.0  | 47.2  |
| 100°   | 194.5 | 217.5 | 38.0  | 47.2  | 48.3  |
| 102.5° | 270.5 | 285.4 | 85.2  | 47.2  | 49.5  |
| 105°   | 343.0 | 355.7 | 252.1 | 48.3  | 50.6  |
| 107.5° | 420.1 | 430.5 | 447.7 | 270.5 | 119.7 |
| 110°   | 497.2 | 506.4 | 519.1 | 481.1 | 316.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 570.9  | 578.9  | 591.6  | 602.0  | 599.7  |
| 115°   | 643.4  | 650.3  | 660.7  | 672.2  | 676.8  |
| 117.5° | 714.8  | 722.8  | 728.6  | 737.8  | 738.9  |
| 120°   | 780.4  | 790.7  | 794.2  | 803.4  | 803.4  |
| 122.5° | 847.1  | 855.2  | 859.8  | 865.5  | 866.7  |
| 125°   | 907.0  | 916.2  | 920.8  | 923.1  | 925.4  |
| 127.5° | 966.8  | 976.0  | 981.8  | 985.2  | 982.9  |
| 130°   | 1022.1 | 1031.3 | 1035.9 | 1040.5 | 1038.2 |
| 132.5° | 1075.0 | 1084.2 | 1087.7 | 1092.3 | 1088.8 |
| 135°   | 1129.1 | 1136.0 | 1140.6 | 1144.1 | 1140.6 |
| 137.5° | 1175.1 | 1184.4 | 1186.7 | 1192.4 | 1190.1 |
| 140°   | 1221.2 | 1228.1 | 1231.5 | 1236.1 | 1233.8 |
| 142.5° | 1263.8 | 1270.7 | 1274.1 | 1277.6 | 1274.1 |
| 145°   | 1302.9 | 1311.0 | 1313.3 | 1315.6 | 1315.6 |
| 147.5° | 1340.9 | 1346.6 | 1348.9 | 1351.2 | 1345.5 |
| 150°   | 1375.4 | 1378.9 | 1381.2 | 1383.5 | 1380.0 |
| 152.5° | 1406.5 | 1407.6 | 1408.8 | 1413.4 | 1407.6 |
| 155°   | 1435.3 | 1433.0 | 1434.1 | 1439.9 | 1433.0 |
| 157.5° | 1458.3 | 1458.3 | 1457.1 | 1464.0 | 1454.8 |
| 160°   | 1479.0 | 1477.9 | 1476.7 | 1483.6 | 1475.6 |
| 162.5° | 1498.6 | 1495.1 | 1494.0 | 1502.0 | 1495.1 |
| 165°   | 1513.5 | 1510.1 | 1508.9 | 1518.1 | 1510.1 |
| 167.5° | 1526.2 | 1521.6 | 1521.6 | 1530.8 | 1521.6 |
| 170°   | 1536.6 | 1531.9 | 1531.9 | 1541.2 | 1531.9 |
| 172.5° | 1543.5 | 1537.7 | 1538.9 | 1548.1 | 1537.7 |
| 175°   | 1549.2 | 1543.5 | 1544.6 | 1552.7 | 1543.5 |
| 177.5° | 1551.5 | 1545.8 | 1546.9 | 1556.1 | 1544.6 |
| 180°   | 1549.2 | 1549.2 | 1549.2 | 1549.2 | 1549.2 |

(END OF REPORT)