

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: P1007469

Luminaire Tested: S123IP-B1025UB27-4F0-XX-W2A-1

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123IP-B1025UB27-4F0-XX-W2A-1  
Description: Define 3 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

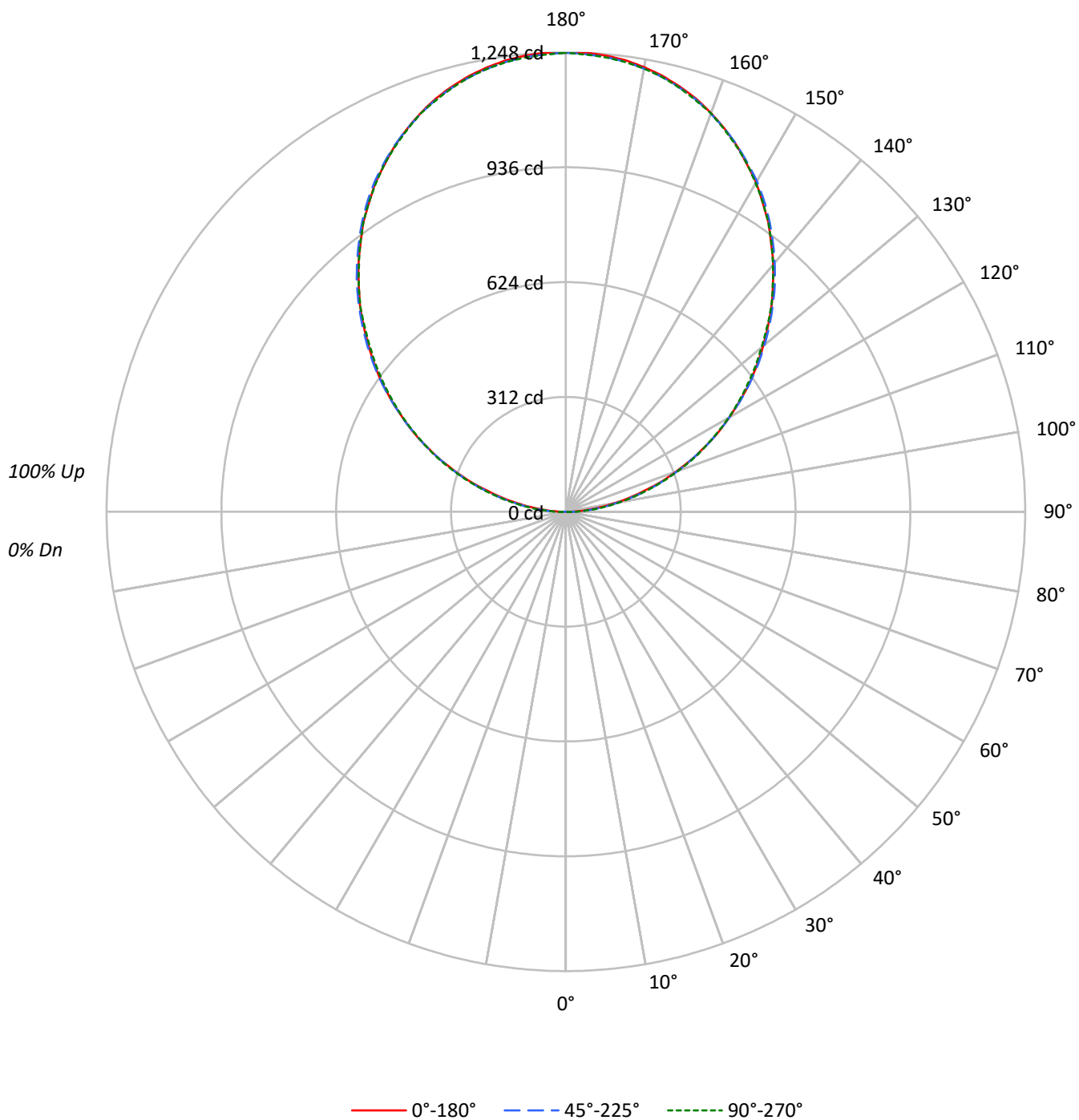
Lumens per Lamp: N/A  
Luminaire Lumens: 3458.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 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 |    |    | 0  |
| RW  | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 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 | 10 | 10 | 0  |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  | 8  | 8  | 0  |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  | 7  | 7  | 0  |
| 3   | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  | 6  | 6  | 0  |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  | 5  | 5  | 0  |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  | 4  | 4  | 0  |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  | 4  | 4  | 0  |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  | 3  | 3  | 0  |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  | 3  | 3  | 0  |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  | 3  | 3  | 0  |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  | 2  | 2  | 0  |

**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°  | 80.3   | 2.3       |
| 100°-110° | 243.0  | 7.0       |
| 110°-120° | 413.6  | 12.0      |
| 120°-130° | 544.2  | 15.7      |
| 130°-140° | 611.7  | 17.7      |
| 140°-150° | 601.3  | 17.4      |
| 150°-160° | 506.3  | 14.6      |
| 160°-170° | 337.0  | 9.7       |
| 170°-180° | 118.0  | 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°  | 736.9  | 21.3      |
| 90°-150°  | 2494.0 | 72.1      |
| 90°-180°  | 3455.0 | 99.9      |
| 0°-180°   | 3458.0 | 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    | 11    | 24   | 27    | 29   | 4    |
| 95°  | 58   | 65    | 72   | 76    | 76   | 64   |
| 105° | 220  | 222   | 231  | 231   | 233  | 236  |
| 115° | 416  | 419   | 417  | 418   | 417  | 412  |
| 125° | 609  | 612   | 610  | 606   | 602  | 543  |
| 135° | 791  | 796   | 796  | 792   | 790  | 609  |
| 145° | 959  | 961   | 964  | 963   | 959  | 599  |
| 155° | 1098 | 1098  | 1099 | 1103  | 1096 | 506  |
| 165° | 1196 | 1193  | 1193 | 1199  | 1192 | 337  |
| 175° | 1244 | 1240  | 1240 | 1246  | 1239 | 118  |
| 180° | 1247 | 1247  | 1247 | 1247  | 1247 |      |

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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°    | 1.0   | 10.8  | 23.5  | 27.4  | 29.4  |
| 92.5°  | 29.4  | 35.3  | 41.1  | 44.1  | 42.1  |
| 95°    | 57.8  | 64.7  | 72.5  | 76.4  | 76.4  |
| 97.5°  | 95.0  | 99.9  | 105.8 | 110.7 | 109.7 |
| 100°   | 133.2 | 139.1 | 144.0 | 146.9 | 148.9 |
| 102.5° | 177.3 | 180.2 | 187.1 | 190.0 | 189.1 |
| 105°   | 220.4 | 222.4 | 231.2 | 231.2 | 233.1 |
| 107.5° | 271.4 | 272.3 | 276.3 | 279.2 | 278.2 |
| 110°   | 318.4 | 320.3 | 322.3 | 326.2 | 324.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 367.4  | 368.3  | 368.3  | 373.2  | 373.2  |
| 115°   | 416.3  | 419.3  | 417.3  | 418.3  | 417.3  |
| 117.5° | 466.3  | 467.3  | 465.3  | 465.3  | 462.4  |
| 120°   | 512.3  | 518.2  | 513.3  | 512.3  | 510.4  |
| 122.5° | 560.3  | 564.3  | 562.3  | 559.4  | 556.4  |
| 125°   | 609.3  | 612.3  | 610.3  | 606.4  | 602.5  |
| 127.5° | 654.4  | 660.3  | 658.3  | 652.4  | 648.5  |
| 130°   | 699.4  | 707.3  | 704.3  | 700.4  | 693.6  |
| 132.5° | 744.5  | 752.3  | 750.4  | 745.5  | 740.6  |
| 135°   | 790.6  | 796.4  | 795.5  | 791.5  | 789.6  |
| 137.5° | 832.7  | 837.6  | 840.5  | 835.6  | 832.7  |
| 140°   | 876.8  | 881.7  | 882.6  | 881.7  | 874.8  |
| 142.5° | 916.9  | 921.8  | 923.8  | 922.8  | 917.9  |
| 145°   | 959.0  | 961.0  | 963.9  | 963.0  | 959.0  |
| 147.5° | 995.3  | 999.2  | 1002.2 | 1002.2 | 996.3  |
| 150°   | 1033.5 | 1035.5 | 1037.4 | 1037.4 | 1031.5 |
| 152.5° | 1064.8 | 1067.8 | 1068.8 | 1070.7 | 1065.8 |
| 155°   | 1098.2 | 1098.2 | 1099.1 | 1103.1 | 1096.2 |
| 157.5° | 1126.6 | 1125.6 | 1126.6 | 1130.5 | 1124.6 |
| 160°   | 1153.0 | 1151.1 | 1151.1 | 1156.0 | 1152.0 |
| 162.5° | 1176.5 | 1173.6 | 1174.6 | 1179.5 | 1172.6 |
| 165°   | 1196.1 | 1193.2 | 1193.2 | 1199.1 | 1192.2 |
| 167.5° | 1212.8 | 1208.9 | 1209.8 | 1215.7 | 1209.8 |
| 170°   | 1226.5 | 1222.6 | 1222.6 | 1229.4 | 1222.6 |
| 172.5° | 1237.3 | 1233.3 | 1233.3 | 1239.2 | 1232.4 |
| 175°   | 1244.1 | 1240.2 | 1240.2 | 1246.1 | 1239.2 |
| 177.5° | 1248.0 | 1244.1 | 1244.1 | 1250.0 | 1243.1 |
| 180°   | 1247.1 | 1247.1 | 1247.1 | 1247.1 | 1247.1 |

(END OF REPORT)