

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: P1007903

Luminaire Tested: S125IP-B850UB2750-4F0-XX-W2A\_3000K

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125IP-B850UB2750-4F0-XX-W2A\_3000K  
Description: Define 5 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

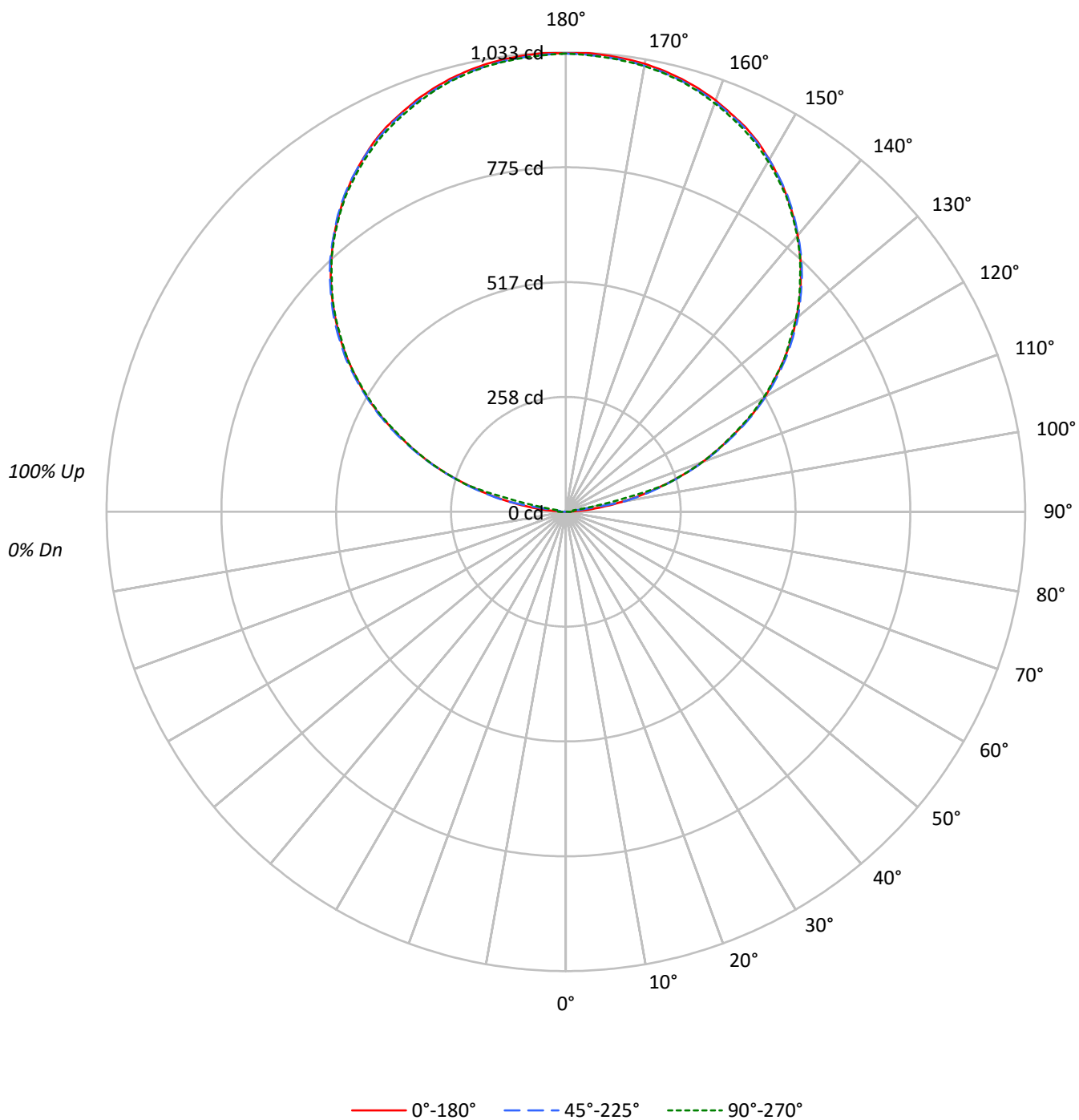
Lumens per Lamp: N/A  
Luminaire Lumens: 3167.0 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 21.1  
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

TEST NUMBER: P1007903

CATALOG NUMBER: S125IP-B850UB2750-4FO-XX-W2A\_3000K

**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°   | 1.5    | 0.0       |
| 90°-100°  | 35.0   | 1.1       |
| 100°-110° | 232.6  | 7.3       |
| 110°-120° | 418.8  | 13.2      |
| 120°-130° | 537.6  | 17.0      |
| 130°-140° | 578.2  | 18.3      |
| 140°-150° | 542.6  | 17.1      |
| 150°-160° | 438.9  | 13.9      |
| 160°-170° | 283.9  | 9.0       |
| 170°-180° | 97.9   | 3.1       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 1.5    | 0.0       |
| 90°-120°  | 686.3  | 21.7      |
| 90°-150°  | 2344.8 | 74.0      |
| 90°-180°  | 3165.0 | 99.9      |
| 0°-180°   | 3167.0 | 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    | 7     | 12   | 16    | 18   | 2    |
| 95°  | 44   | 41    | 12   | 16    | 16   | 53   |
| 105° | 225  | 228   | 228  | 228   | 227  | 238  |
| 115° | 422  | 426   | 426  | 423   | 419  | 418  |
| 125° | 600  | 605   | 605  | 602   | 600  | 536  |
| 135° | 748  | 752   | 751  | 749   | 745  | 577  |
| 145° | 867  | 869   | 869  | 869   | 865  | 542  |
| 155° | 955  | 950   | 952  | 954   | 948  | 440  |
| 165° | 1008 | 1003  | 1004 | 1008  | 1002 | 285  |
| 175° | 1030 | 1026  | 1027 | 1033  | 1026 | 98   |
| 180° | 1030 | 1030  | 1030 | 1030  | 1030 |      |

TEST NUMBER: P1007903

CATALOG NUMBER: S125IP-B850UB2750-4F0-XX-W2A\_3000K

**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°    | 0.8   | 6.9   | 12.2  | 16.0  | 18.3  |
| 92.5°  | 14.5  | 7.6   | 12.2  | 16.0  | 16.8  |
| 95°    | 43.5  | 41.3  | 12.2  | 16.0  | 16.0  |
| 97.5°  | 81.7  | 86.3  | 13.8  | 15.3  | 16.0  |
| 100°   | 127.6 | 129.9 | 132.9 | 19.1  | 16.0  |
| 102.5° | 174.2 | 177.2 | 178.8 | 180.3 | 116.1 |
| 105°   | 224.6 | 227.6 | 227.6 | 227.6 | 226.9 |
| 107.5° | 276.5 | 276.5 | 278.1 | 278.8 | 275.8 |
| 110°   | 326.9 | 326.9 | 328.5 | 326.2 | 326.9 |

TEST NUMBER: P1007903

CATALOG NUMBER: S125IP-B850UB2750-4F0-XX-W2A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 374.3  | 376.6  | 377.4  | 374.3  | 372.8  |
| 115°   | 421.7  | 425.5  | 426.3  | 423.2  | 418.6  |
| 117.5° | 471.3  | 471.3  | 474.4  | 469.8  | 468.3  |
| 120°   | 517.2  | 516.4  | 518.7  | 517.2  | 513.3  |
| 122.5° | 557.6  | 561.5  | 562.2  | 560.7  | 556.1  |
| 125°   | 599.7  | 605.0  | 605.0  | 602.0  | 599.7  |
| 127.5° | 640.1  | 644.0  | 643.2  | 641.7  | 635.6  |
| 130°   | 676.8  | 680.6  | 681.4  | 679.1  | 675.3  |
| 132.5° | 713.5  | 718.1  | 715.8  | 715.8  | 712.0  |
| 135°   | 747.9  | 752.4  | 750.9  | 749.4  | 744.8  |
| 137.5° | 779.9  | 784.5  | 783.0  | 783.0  | 779.2  |
| 140°   | 811.3  | 812.8  | 812.0  | 813.6  | 809.0  |
| 142.5° | 839.5  | 840.3  | 841.8  | 841.8  | 837.2  |
| 145°   | 867.0  | 868.6  | 868.6  | 869.3  | 864.7  |
| 147.5° | 891.5  | 891.5  | 892.2  | 893.0  | 887.6  |
| 150°   | 914.4  | 912.9  | 914.4  | 915.9  | 909.8  |
| 152.5° | 936.5  | 932.7  | 934.2  | 935.8  | 930.4  |
| 155°   | 954.9  | 950.3  | 951.8  | 954.1  | 948.0  |
| 157.5° | 969.4  | 967.1  | 967.1  | 969.4  | 963.3  |
| 160°   | 984.7  | 980.1  | 980.8  | 983.9  | 977.8  |
| 162.5° | 996.9  | 992.3  | 993.1  | 997.7  | 990.8  |
| 165°   | 1007.6 | 1003.0 | 1003.8 | 1008.3 | 1002.2 |
| 167.5° | 1016.0 | 1011.4 | 1012.2 | 1017.5 | 1010.6 |
| 170°   | 1022.9 | 1017.5 | 1018.3 | 1024.4 | 1017.5 |
| 172.5° | 1027.4 | 1022.1 | 1023.6 | 1029.0 | 1022.1 |
| 175°   | 1030.5 | 1025.9 | 1026.7 | 1032.8 | 1025.9 |
| 177.5° | 1032.8 | 1028.2 | 1029.0 | 1034.3 | 1028.2 |
| 180°   | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 |

(END OF REPORT)