

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: P1007889

Luminaire Tested: S125IP-B850UB27-4F0-XX-W2A-1

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125IP-B850UB27-4F0-XX-W2A-1  
Description: Define 5 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

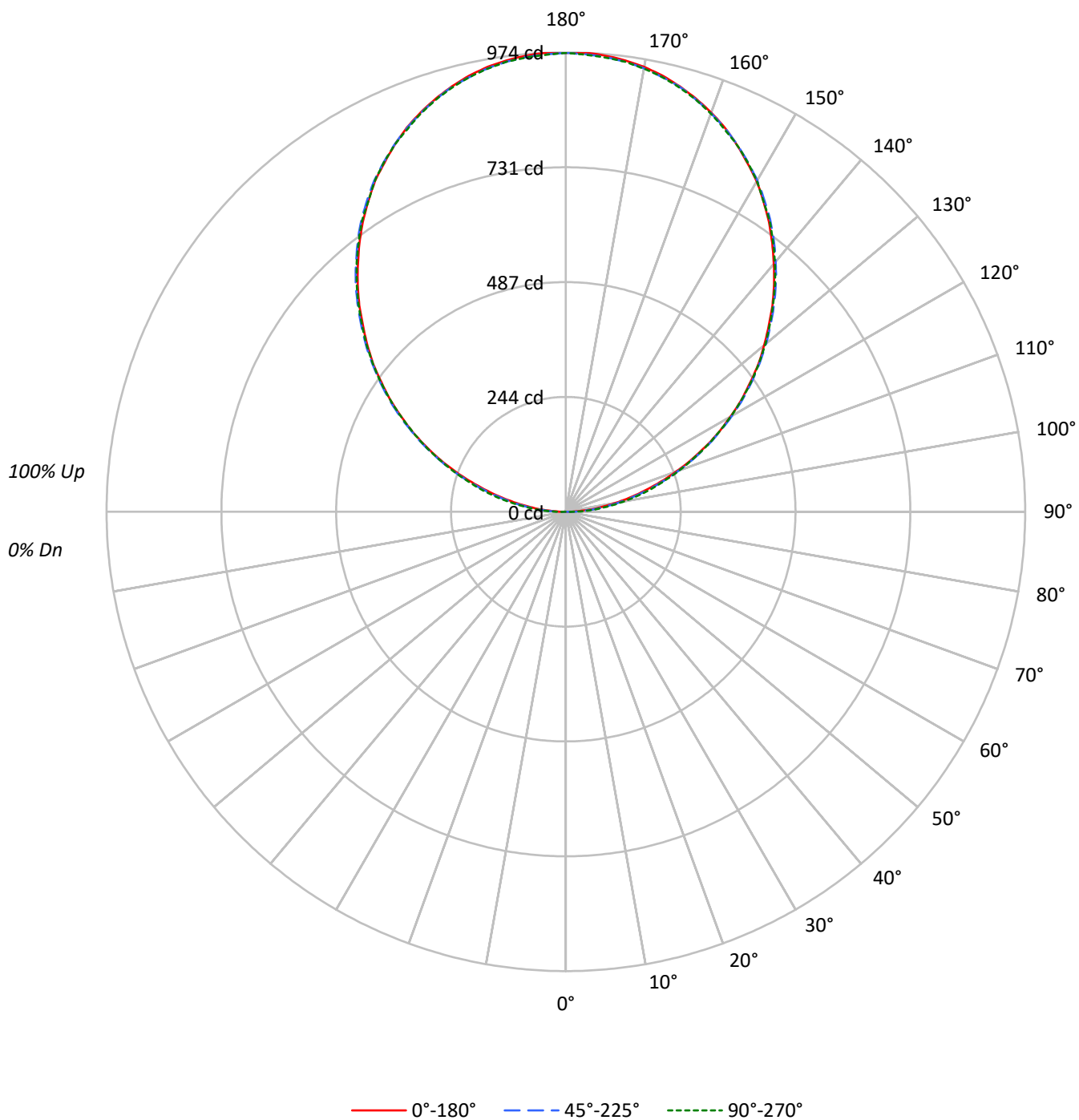
Lumens per Lamp: N/A  
Luminaire Lumens: 2717.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

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

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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°   | 1.5    | 0.1       |
| 90°-100°  | 64.7   | 2.4       |
| 100°-110° | 192.2  | 7.1       |
| 110°-120° | 326.0  | 12.0      |
| 120°-130° | 429.1  | 15.8      |
| 130°-140° | 480.9  | 17.7      |
| 140°-150° | 471.4  | 17.3      |
| 150°-160° | 395.9  | 14.6      |
| 160°-170° | 263.2  | 9.7       |
| 170°-180° | 92.1   | 3.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 1.5    | 0.1       |
| 90°-120°  | 582.9  | 21.5      |
| 90°-150°  | 1964.3 | 72.3      |
| 90°-180°  | 2715.0 | 99.9      |
| 0°-180°   | 2717.0 | 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  | 3    |
| 95°  | 49  | 51    | 58  | 64    | 65  | 51   |
| 105° | 173 | 176   | 181 | 186   | 188 | 184  |
| 115° | 326 | 329   | 331 | 330   | 329 | 323  |
| 125° | 476 | 481   | 482 | 480   | 479 | 427  |
| 135° | 619 | 624   | 625 | 625   | 622 | 477  |
| 145° | 750 | 753   | 756 | 756   | 753 | 469  |
| 155° | 859 | 859   | 859 | 862   | 859 | 396  |
| 165° | 934 | 932   | 933 | 936   | 931 | 263  |
| 175° | 971 | 968   | 968 | 972   | 967 | 92   |
| 180° | 973 | 973   | 973 | 973   | 973 |      |

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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°    | 0.8   | 6.8   | 12.1  | 15.9  | 18.2  |
| 92.5°  | 22.7  | 26.5  | 33.3  | 38.6  | 40.1  |
| 95°    | 49.2  | 50.7  | 58.3  | 63.6  | 65.1  |
| 97.5°  | 75.7  | 76.5  | 87.1  | 91.6  | 92.4  |
| 100°   | 106.0 | 106.0 | 115.8 | 122.7 | 124.2 |
| 102.5° | 138.6 | 142.3 | 146.1 | 153.7 | 156.0 |
| 105°   | 172.6 | 176.4 | 181.0 | 185.5 | 187.8 |
| 107.5° | 209.7 | 213.5 | 217.3 | 219.6 | 219.6 |
| 110°   | 248.4 | 252.1 | 254.4 | 256.7 | 255.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 287.7 | 289.2 | 292.3 | 293.0 | 291.5 |
| 115°   | 326.3 | 329.4 | 330.9 | 330.1 | 329.4 |
| 117.5° | 365.7 | 366.5 | 368.0 | 368.7 | 365.7 |
| 120°   | 402.1 | 405.8 | 406.6 | 406.6 | 403.6 |
| 122.5° | 441.4 | 442.2 | 444.5 | 443.7 | 441.4 |
| 125°   | 476.3 | 480.8 | 481.6 | 480.0 | 479.3 |
| 127.5° | 514.9 | 517.2 | 517.9 | 517.2 | 515.6 |
| 130°   | 549.0 | 552.7 | 554.3 | 553.5 | 552.0 |
| 132.5° | 583.0 | 589.8 | 589.1 | 588.3 | 586.1 |
| 135°   | 619.4 | 623.9 | 624.7 | 624.7 | 621.6 |
| 137.5° | 653.4 | 658.0 | 659.5 | 660.3 | 656.5 |
| 140°   | 686.0 | 689.8 | 692.1 | 693.6 | 689.8 |
| 142.5° | 718.6 | 721.6 | 724.6 | 725.4 | 721.6 |
| 145°   | 750.4 | 753.4 | 755.7 | 755.7 | 753.4 |
| 147.5° | 779.9 | 782.2 | 783.7 | 785.9 | 779.9 |
| 150°   | 809.4 | 808.7 | 811.7 | 811.7 | 810.2 |
| 152.5° | 833.7 | 835.2 | 835.9 | 838.2 | 835.2 |
| 155°   | 858.6 | 858.6 | 859.4 | 862.4 | 858.6 |
| 157.5° | 881.4 | 879.8 | 880.6 | 883.6 | 878.3 |
| 160°   | 901.0 | 898.8 | 899.5 | 902.6 | 898.8 |
| 162.5° | 918.5 | 916.9 | 916.9 | 920.7 | 916.2 |
| 165°   | 933.6 | 932.1 | 932.8 | 935.9 | 931.3 |
| 167.5° | 947.2 | 944.2 | 944.2 | 948.7 | 944.2 |
| 170°   | 957.8 | 954.8 | 954.8 | 959.3 | 954.0 |
| 172.5° | 965.4 | 962.4 | 962.4 | 966.9 | 962.4 |
| 175°   | 970.7 | 967.7 | 967.7 | 972.2 | 966.9 |
| 177.5° | 974.5 | 971.5 | 970.7 | 975.2 | 969.9 |
| 180°   | 973.0 | 973.0 | 973.0 | 973.0 | 973.0 |

(END OF REPORT)