

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: P1007411

Luminaire Tested: S122IP-B725UB27-4F0-XX-W2A

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122IP-B725UB27-4F0-XX-W2A  
Description: Define 2 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

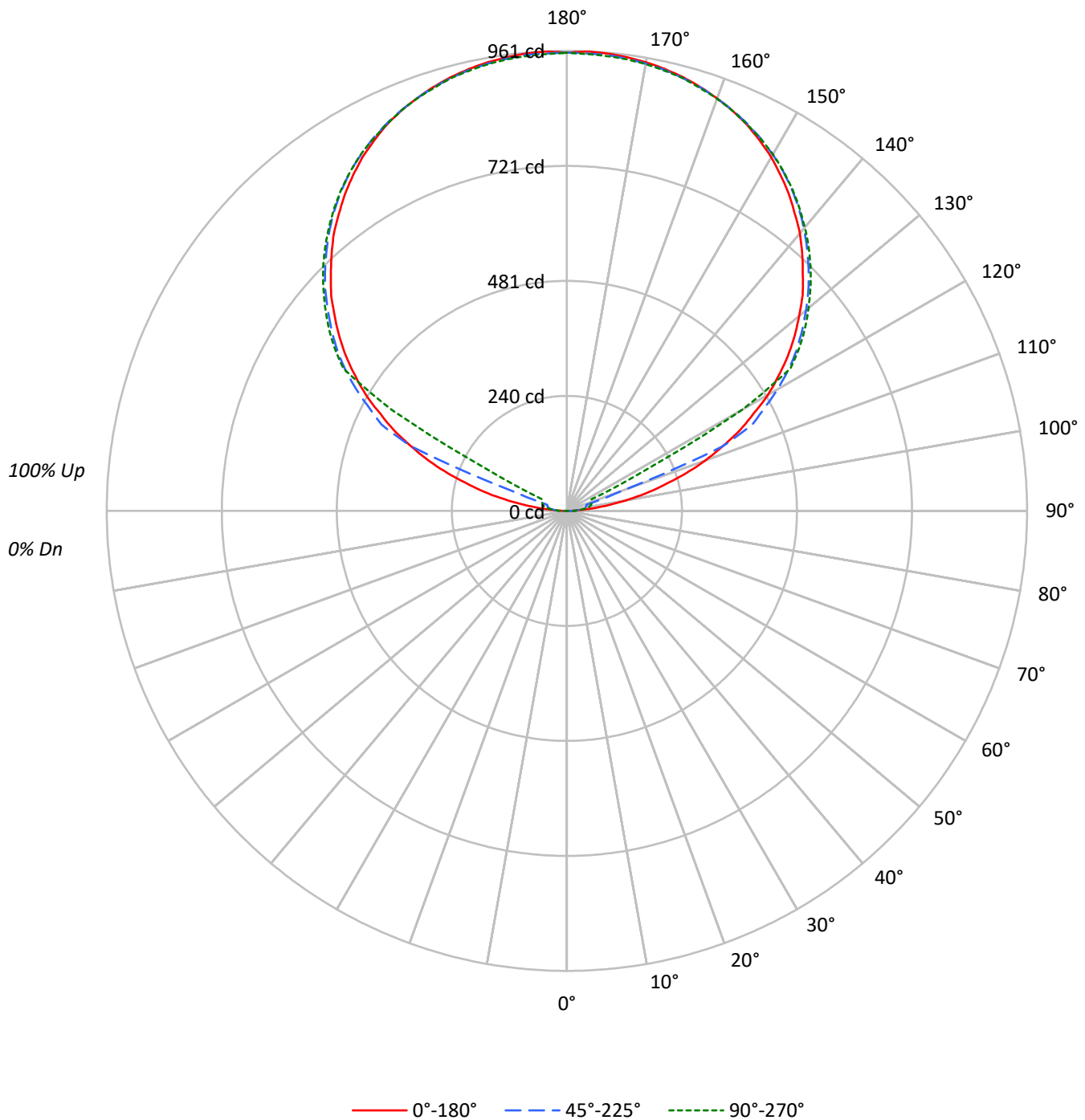
Lumens per Lamp: N/A  
Luminaire Lumens: 2808.0 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

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°   | 1.7    | 0.1       |
| 90°-100°  | 31.6   | 1.1       |
| 100°-110° | 117.7  | 4.2       |
| 110°-120° | 312.1  | 11.1      |
| 120°-130° | 517.6  | 18.4      |
| 130°-140° | 549.8  | 19.6      |
| 140°-150° | 511.0  | 18.2      |
| 150°-160° | 410.8  | 14.6      |
| 160°-170° | 264.7  | 9.4       |
| 170°-180° | 91.1   | 3.2       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 1.7    | 0.1       |
| 90°-120°  | 461.3  | 16.4      |
| 90°-150°  | 2039.7 | 72.6      |
| 90°-180°  | 2806.0 | 99.9      |
| 0°-180°   | 2808.0 | 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   | 8     | 14  | 17    | 19  | 3    |
| 95°  | 45  | 22    | 27  | 30    | 30  | 53   |
| 105° | 211 | 231   | 42  | 50    | 53  | 225  |
| 115° | 398 | 410   | 427 | 107   | 57  | 392  |
| 125° | 563 | 572   | 585 | 590   | 592 | 502  |
| 135° | 697 | 708   | 714 | 721   | 720 | 538  |
| 145° | 808 | 808   | 819 | 824   | 821 | 506  |
| 155° | 890 | 884   | 892 | 896   | 891 | 410  |
| 165° | 938 | 934   | 936 | 941   | 936 | 265  |
| 175° | 959 | 954   | 956 | 961   | 954 | 91   |
| 180° | 957 | 957   | 957 | 957   | 957 |      |

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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°    | 0.7   | 8.3   | 13.9  | 17.3  | 18.7 |
| 92.5°  | 17.3  | 14.5  | 16.6  | 18.0  | 18.7 |
| 95°    | 45.0  | 22.2  | 27.0  | 30.5  | 29.8 |
| 97.5°  | 81.0  | 24.2  | 35.3  | 37.4  | 38.1 |
| 100°   | 122.6 | 27.7  | 39.5  | 45.0  | 46.4 |
| 102.5° | 168.3 | 166.9 | 40.9  | 48.5  | 50.6 |
| 105°   | 210.6 | 231.3 | 42.3  | 49.9  | 52.6 |
| 107.5° | 259.7 | 277.1 | 43.6  | 51.3  | 54.0 |
| 110°   | 306.8 | 321.4 | 121.2 | 51.9  | 54.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 351.2 | 363.6 | 351.9 | 53.3  | 55.4  |
| 115°   | 398.3 | 410.1 | 427.4 | 106.7 | 56.8  |
| 117.5° | 439.1 | 453.0 | 464.8 | 365.7 | 184.2 |
| 120°   | 484.9 | 495.2 | 507.7 | 516.0 | 422.5 |
| 122.5° | 523.6 | 534.7 | 548.6 | 552.7 | 553.4 |
| 125°   | 563.1 | 572.1 | 585.3 | 590.1 | 592.2 |
| 127.5° | 599.1 | 608.8 | 619.2 | 626.2 | 626.9 |
| 130°   | 633.1 | 644.2 | 651.8 | 659.4 | 658.7 |
| 132.5° | 667.7 | 676.7 | 684.3 | 690.6 | 689.9 |
| 135°   | 696.8 | 707.9 | 714.1 | 721.1 | 719.7 |
| 137.5° | 727.3 | 735.6 | 742.5 | 749.5 | 747.4 |
| 140°   | 757.1 | 762.6 | 770.2 | 776.5 | 773.0 |
| 142.5° | 782.0 | 786.9 | 795.9 | 801.4 | 797.9 |
| 145°   | 808.3 | 807.6 | 819.4 | 824.3 | 820.8 |
| 147.5° | 831.2 | 829.1 | 840.9 | 844.3 | 841.6 |
| 150°   | 853.3 | 848.5 | 859.6 | 863.7 | 860.3 |
| 152.5° | 872.1 | 866.5 | 876.9 | 881.1 | 876.2 |
| 155°   | 890.1 | 883.8 | 892.1 | 896.3 | 890.8 |
| 157.5° | 904.6 | 899.1 | 905.3 | 910.1 | 904.6 |
| 160°   | 917.1 | 912.9 | 917.1 | 921.2 | 916.4 |
| 162.5° | 928.2 | 924.0 | 927.5 | 932.3 | 926.1 |
| 165°   | 937.9 | 933.7 | 935.8 | 940.6 | 935.8 |
| 167.5° | 945.5 | 941.3 | 943.4 | 948.2 | 942.0 |
| 170°   | 951.7 | 947.6 | 948.9 | 953.8 | 947.6 |
| 172.5° | 955.9 | 951.7 | 953.1 | 957.9 | 951.7 |
| 175°   | 959.3 | 954.5 | 955.9 | 960.7 | 953.8 |
| 177.5° | 960.7 | 955.9 | 956.6 | 961.4 | 955.2 |
| 180°   | 957.2 | 957.2 | 957.2 | 957.2 | 957.2 |

(END OF REPORT)