

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: P1008119

Luminaire Tested: S122DIP-B485D725UB2750-4F0-XX-W2A-D\_2700K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008119  
REPORT IS A COMBINATION OF REPORTS P984312 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B485D725UB2750-4F0-XX-W2A-D\_2700K  
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

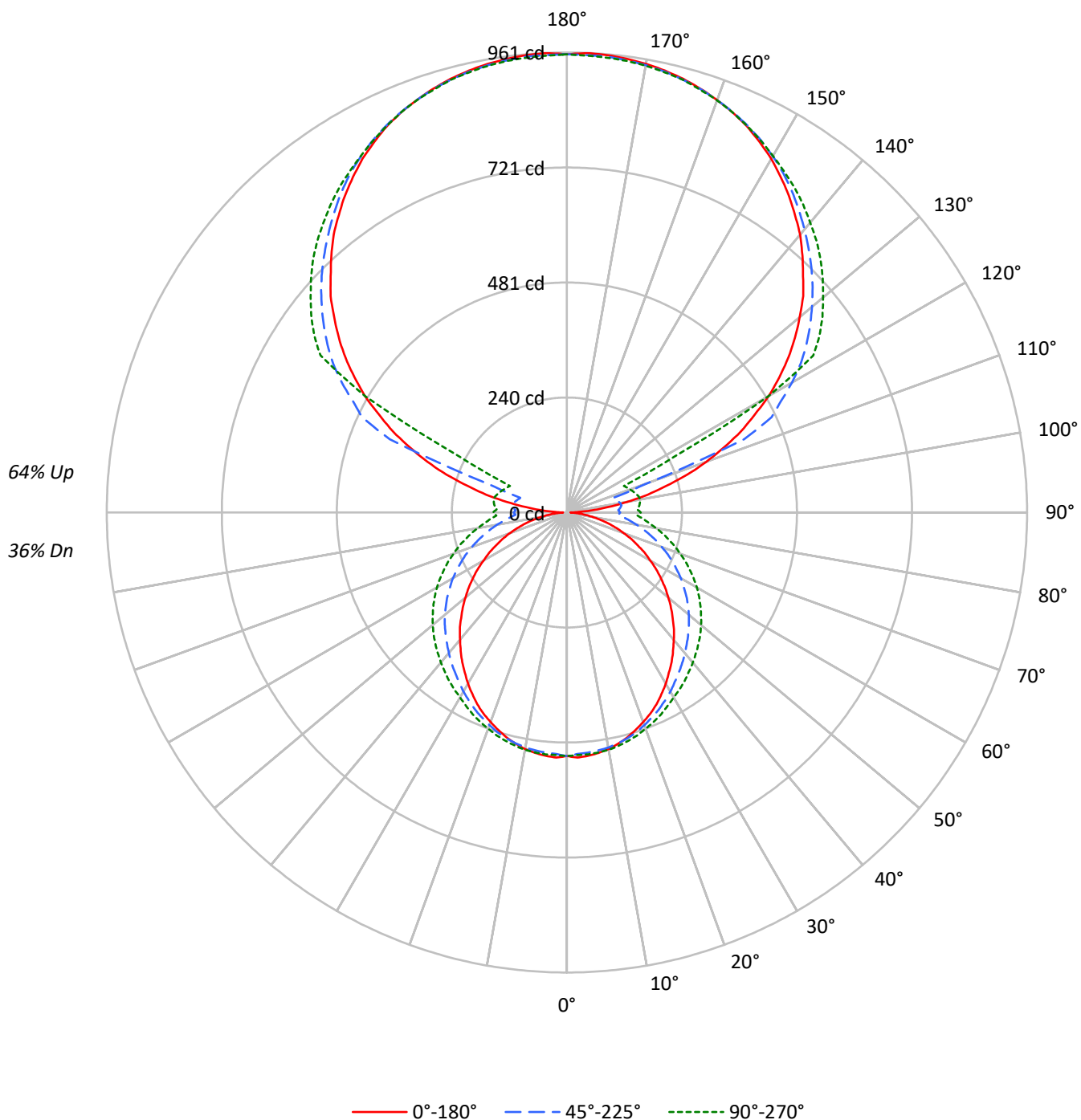
Lumens per Lamp: N/A  
Luminaire Lumens: 4749.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 45.1  
Input Voltage (V): 120  
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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 |
| 1   | 94  | 89  | 85  | 81  | 84 | 80 | 77 | 74 | 65 | 62 | 60 | 50 | 48 | 47 | 37 | 36 | 35 |
| 2   | 85  | 77  | 71  | 65  | 76 | 70 | 64 | 59 | 56 | 52 | 49 | 43 | 41 | 38 | 32 | 30 | 28 |
| 3   | 77  | 67  | 60  | 54  | 69 | 61 | 54 | 49 | 49 | 44 | 40 | 38 | 35 | 32 | 28 | 25 | 24 |
| 4   | 70  | 59  | 51  | 45  | 63 | 54 | 47 | 41 | 43 | 38 | 34 | 34 | 30 | 27 | 25 | 22 | 20 |
| 5   | 64  | 53  | 44  | 38  | 58 | 48 | 40 | 35 | 39 | 33 | 29 | 30 | 26 | 23 | 22 | 19 | 17 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 35 | 30 | 35 | 29 | 25 | 27 | 23 | 20 | 20 | 17 | 15 |
| 7   | 55  | 42  | 34  | 29  | 49 | 38 | 31 | 26 | 31 | 26 | 22 | 24 | 20 | 18 | 18 | 15 | 13 |
| 8   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 17 | 14 | 12 |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 20 | 26 | 21 | 17 | 20 | 17 | 14 | 15 | 13 | 11 |
| 10  | 44  | 32  | 24  | 20  | 39 | 29 | 23 | 18 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 11 | 10 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8052 | 8052 | 8052 |
| 5°  | 8089 | 7708 | 7665 |
| 10° | 8035 | 7442 | 7332 |
| 15° | 7921 | 7166 | 6992 |
| 20° | 7777 | 6876 | 6670 |
| 25° | 7636 | 6597 | 6376 |
| 30° | 7440 | 6315 | 6085 |
| 35° | 7240 | 6043 | 5873 |
| 40° | 7027 | 5809 | 5661 |
| 45° | 6827 | 5595 | 5476 |
| 50° | 6612 | 5398 | 5294 |
| 55° | 6384 | 5190 | 5108 |
| 60° | 6108 | 4972 | 4913 |
| 65° | 5819 | 4722 | 4689 |
| 70° | 5491 | 4454 | 4447 |
| 75° | 5074 | 4184 | 4219 |
| 80° | 4415 | 3905 | 3984 |
| 85° | 3743 | 3641 | 3779 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6827 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.2   | 1.0       |
| 10°-20°   | 138.3  | 2.9       |
| 20°-30°   | 209.6  | 4.4       |
| 30°-40°   | 255.2  | 5.4       |
| 40°-50°   | 274.6  | 5.8       |
| 50°-60°   | 266.6  | 5.6       |
| 60°-70°   | 232.9  | 4.9       |
| 70°-80°   | 179.2  | 3.8       |
| 80°-90°   | 121.7  | 2.6       |
| 90°-100°  | 114.4  | 2.4       |
| 100°-110° | 178.1  | 3.8       |
| 110°-120° | 352.0  | 7.4       |
| 120°-130° | 539.8  | 11.4      |
| 130°-140° | 559.1  | 11.8      |
| 140°-150° | 512.6  | 10.8      |
| 150°-160° | 410.8  | 8.7       |
| 160°-170° | 264.7  | 5.6       |
| 170°-180° | 91.1   | 1.9       |
| 0°-30°    | 396.1  | 8.3       |
| 0°-40°    | 651.3  | 13.7      |
| 0°-60°    | 1192.5 | 25.1      |
| 0°-90°    | 1726.3 | 36.4      |
| 90°-120°  | 644.5  | 13.6      |
| 90°-150°  | 2256.0 | 47.5      |
| 90°-180°  | 3023.0 | 63.7      |
| 0°-180°   | 4749.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 509 | 509   | 509 | 509   | 509 |      |
| 5°   | 510 | 508   | 504 | 508   | 507 | 48   |
| 15°  | 487 | 488   | 488 | 495   | 494 | 137  |
| 25°  | 442 | 448   | 454 | 463   | 465 | 203  |
| 35°  | 381 | 394   | 408 | 424   | 429 | 238  |
| 45°  | 313 | 332   | 358 | 381   | 388 | 241  |
| 55°  | 240 | 266   | 304 | 331   | 341 | 214  |
| 65°  | 164 | 200   | 243 | 274   | 283 | 163  |
| 75°  | 91  | 132   | 179 | 211   | 220 | 96   |
| 85°  | 26  | 72    | 119 | 150   | 161 | 28   |
| 90°  | 8   | 58    | 111 | 144   | 154 | 8    |
| 95°  | 51  | 63    | 112 | 143   | 151 | 58   |
| 105° | 214 | 256   | 106 | 139   | 150 | 229  |
| 115° | 401 | 421   | 472 | 173   | 131 | 395  |
| 125° | 565 | 574   | 610 | 635   | 644 | 504  |
| 135° | 698 | 709   | 722 | 745   | 749 | 539  |
| 145° | 808 | 808   | 819 | 829   | 829 | 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°     | 508.7 | 508.7 | 508.7 | 508.7 | 508.7 |
| 2.5°   | 512.4 | 510.2 | 505.0 | 508.7 | 507.2 |
| 5°     | 510.2 | 508.0 | 503.5 | 508.0 | 507.2 |
| 7.5°   | 506.5 | 505.0 | 501.3 | 506.5 | 505.7 |
| 10°    | 502.1 | 500.6 | 498.4 | 504.3 | 503.5 |
| 12.5°  | 494.7 | 495.4 | 493.9 | 499.8 | 499.1 |
| 15°    | 486.6 | 488.1 | 488.1 | 494.7 | 493.9 |
| 17.5°  | 476.3 | 479.2 | 481.4 | 488.1 | 488.1 |
| 20°    | 465.9 | 469.6 | 472.6 | 480.7 | 480.7 |
| 22.5°  | 454.9 | 459.3 | 463.7 | 471.8 | 473.3 |
| 25°    | 442.3 | 447.5 | 454.1 | 463.0 | 465.2 |
| 27.5°  | 427.6 | 435.7 | 443.1 | 454.1 | 455.6 |
| 30°    | 412.9 | 422.4 | 432.0 | 443.8 | 446.0 |
| 32.5°  | 396.6 | 407.7 | 419.5 | 433.5 | 437.9 |
| 35°    | 381.2 | 393.7 | 407.7 | 423.9 | 429.1 |
| 37.5°  | 364.2 | 378.2 | 395.9 | 413.6 | 418.8 |
| 40°    | 347.2 | 363.5 | 383.4 | 402.5 | 409.2 |
| 42.5°  | 331.0 | 347.2 | 370.8 | 392.2 | 398.8 |
| 45°    | 312.6 | 332.5 | 358.3 | 381.2 | 388.5 |
| 47.5°  | 294.9 | 316.3 | 345.8 | 369.4 | 377.5 |
| 50°    | 276.5 | 299.3 | 332.5 | 357.6 | 365.7 |
| 52.5°  | 258.8 | 283.1 | 318.5 | 344.3 | 353.1 |
| 55°    | 239.6 | 266.1 | 304.5 | 331.0 | 340.6 |
| 57.5°  | 221.2 | 250.7 | 289.0 | 317.7 | 327.3 |
| 60°    | 201.3 | 233.0 | 275.0 | 303.0 | 313.3 |
| 62.5°  | 183.6 | 216.7 | 258.8 | 289.0 | 298.6 |
| 65°    | 163.7 | 199.8 | 243.3 | 273.5 | 283.1 |
| 67.5°  | 146.0 | 183.6 | 227.8 | 258.0 | 268.4 |
| 70°    | 126.8 | 165.1 | 210.9 | 242.6 | 251.4 |
| 72.5°  | 109.1 | 148.9 | 195.4 | 226.3 | 237.4 |
| 75°    | 90.7  | 132.0 | 179.1 | 210.9 | 220.4 |
| 77.5°  | 73.0  | 115.7 | 163.7 | 195.4 | 205.7 |
| 80°    | 55.3  | 100.3 | 148.2 | 179.1 | 189.5 |
| 82.5°  | 40.5  | 84.8  | 133.4 | 164.4 | 174.0 |
| 85°    | 26.5  | 72.2  | 119.4 | 150.4 | 160.7 |
| 87.5°  | 16.2  | 60.5  | 107.6 | 137.9 | 147.4 |
| 90°    | 8.1   | 58.4  | 111.2 | 144.1 | 154.4 |
| 92.5°  | 23.9  | 60.2  | 107.3 | 137.4 | 147.0 |
| 95°    | 50.9  | 62.7  | 111.8 | 143.3 | 151.4 |
| 97.5°  | 86.2  | 61.1  | 114.9 | 144.3 | 153.8 |
| 100°   | 127.8 | 60.1  | 113.2 | 146.0 | 155.5 |
| 102.5° | 172.7 | 195.7 | 109.5 | 143.6 | 153.8 |
| 105°   | 214.3 | 256.4 | 105.7 | 139.1 | 149.9 |
| 107.5° | 263.4 | 298.5 | 101.8 | 134.6 | 145.4 |
| 110°   | 309.7 | 339.1 | 175.0 | 129.3 | 140.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 354.1 | 378.3 | 400.6 | 125.5 | 135.8 |
| 115°   | 401.2 | 421.2 | 471.6 | 173.1 | 131.3 |
| 117.5° | 441.3 | 461.1 | 503.9 | 426.9 | 252.8 |
| 120°   | 487.1 | 500.4 | 542.4 | 571.3 | 485.9 |
| 122.5° | 525.8 | 537.6 | 578.8 | 602.8 | 610.2 |
| 125°   | 564.6 | 573.6 | 610.4 | 635.1 | 643.8 |
| 127.5° | 600.6 | 609.5 | 639.8 | 665.3 | 672.6 |
| 130°   | 634.6 | 644.9 | 668.0 | 693.3 | 698.5 |
| 132.5° | 669.2 | 677.4 | 696.1 | 719.4 | 724.6 |
| 135°   | 697.5 | 708.6 | 722.2 | 744.7 | 749.2 |
| 137.5° | 728.0 | 736.3 | 746.9 | 767.9 | 771.0 |
| 140°   | 757.8 | 762.6 | 771.7 | 789.8 | 790.7 |
| 142.5° | 782.7 | 786.9 | 795.9 | 810.2 | 810.4 |
| 145°   | 808.3 | 807.6 | 819.4 | 828.7 | 828.9 |
| 147.5° | 831.2 | 829.1 | 840.9 | 845.0 | 844.5 |
| 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)