

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: P1008931

Luminaire Tested: S122DIP-B290D725UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008931  
REPORT IS A COMBINATION OF REPORTS P984046 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B290D725UB40-4F0-XX-W2A-F  
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

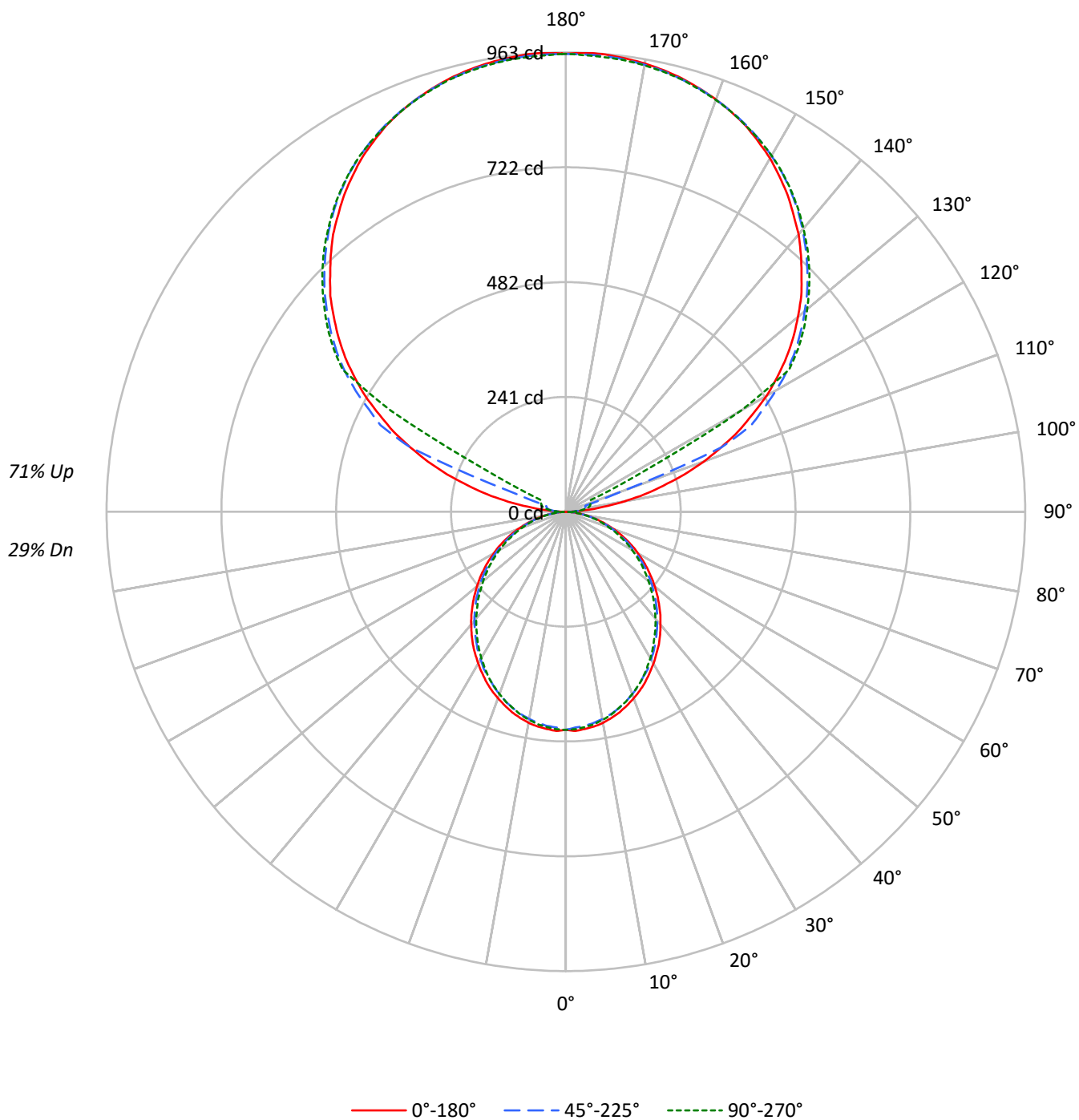
Lumens per Lamp: N/A  
Luminaire Lumens: 3979.0 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 34.1  
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   | 102 | 102 | 102 | 102 | 92 | 92 | 92 | 92 | 72 | 72 | 72 | 54 | 54 | 54 | 37 | 37 | 37 |
| 1   | 93  | 89  | 85  | 82  | 83 | 80 | 77 | 74 | 63 | 61 | 59 | 47 | 46 | 45 | 33 | 32 | 31 |
| 2   | 85  | 78  | 72  | 67  | 76 | 70 | 65 | 61 | 55 | 52 | 49 | 41 | 39 | 37 | 29 | 27 | 26 |
| 3   | 77  | 68  | 61  | 56  | 69 | 61 | 55 | 51 | 48 | 44 | 41 | 37 | 34 | 31 | 26 | 24 | 22 |
| 4   | 71  | 60  | 53  | 47  | 63 | 54 | 48 | 43 | 43 | 38 | 35 | 33 | 29 | 27 | 23 | 21 | 19 |
| 5   | 65  | 54  | 46  | 40  | 58 | 48 | 42 | 36 | 38 | 33 | 30 | 29 | 26 | 23 | 20 | 18 | 17 |
| 6   | 60  | 48  | 40  | 34  | 53 | 43 | 36 | 32 | 34 | 30 | 26 | 26 | 23 | 20 | 19 | 16 | 15 |
| 7   | 55  | 43  | 35  | 30  | 49 | 39 | 32 | 28 | 31 | 26 | 23 | 24 | 20 | 18 | 17 | 15 | 13 |
| 8   | 51  | 39  | 32  | 26  | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 22 | 18 | 16 | 16 | 13 | 12 |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 26 | 21 | 26 | 21 | 18 | 20 | 17 | 14 | 14 | 12 | 11 |
| 10  | 44  | 32  | 25  | 21  | 39 | 29 | 23 | 19 | 24 | 19 | 16 | 18 | 15 | 13 | 13 | 11 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7236 | 7236 | 7236 |
| 5°  | 7247 | 6897 | 6849 |
| 10° | 7189 | 6583 | 6453 |
| 15° | 7083 | 6266 | 6036 |
| 20° | 6941 | 5921 | 5641 |
| 25° | 6799 | 5561 | 5247 |
| 30° | 6622 | 5223 | 4834 |
| 35° | 6453 | 4866 | 4428 |
| 40° | 6246 | 4515 | 4044 |
| 45° | 6039 | 4166 | 3667 |
| 50° | 5813 | 3811 | 3278 |
| 55° | 5574 | 3431 | 2907 |
| 60° | 5307 | 3019 | 2523 |
| 65° | 5016 | 2603 | 2118 |
| 70° | 4643 | 2144 | 1711 |
| 75° | 4128 | 1654 | 1321 |
| 80° | 3513 | 1123 | 849  |
| 85° | 2543 | 521  | 362  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 6039 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.0   | 1.1       |
| 10°-20°   | 121.1  | 3.0       |
| 20°-30°   | 177.9  | 4.5       |
| 30°-40°   | 206.6  | 5.2       |
| 40°-50°   | 206.4  | 5.2       |
| 50°-60°   | 179.9  | 4.5       |
| 60°-70°   | 133.0  | 3.3       |
| 70°-80°   | 75.3   | 1.9       |
| 80°-90°   | 21.5   | 0.5       |
| 90°-100°  | 31.7   | 0.8       |
| 100°-110° | 118.0  | 3.0       |
| 110°-120° | 313.0  | 7.9       |
| 120°-130° | 519.1  | 13.0      |
| 130°-140° | 551.4  | 13.9      |
| 140°-150° | 512.4  | 12.9      |
| 150°-160° | 412.0  | 10.4      |
| 160°-170° | 265.5  | 6.7       |
| 170°-180° | 91.4   | 2.3       |
| 0°-30°    | 342.0  | 8.6       |
| 0°-40°    | 548.6  | 13.8      |
| 0°-60°    | 934.9  | 23.5      |
| 0°-90°    | 1164.7 | 29.3      |
| 90°-120°  | 462.7  | 11.6      |
| 90°-150°  | 2045.5 | 51.4      |
| 90°-180°  | 2814.0 | 70.7      |
| 0°-180°   | 3979.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 457 | 457   | 457 | 457   | 457 |      |
| 5°   | 457 | 455   | 450 | 454   | 453 | 43   |
| 15°  | 435 | 432   | 427 | 429   | 426 | 123  |
| 25°  | 394 | 390   | 383 | 384   | 383 | 181  |
| 35°  | 340 | 335   | 328 | 326   | 324 | 212  |
| 45°  | 276 | 273   | 267 | 262   | 260 | 213  |
| 55°  | 209 | 207   | 201 | 196   | 194 | 187  |
| 65°  | 141 | 138   | 134 | 130   | 128 | 139  |
| 75°  | 74  | 73    | 71  | 68    | 69  | 79   |
| 85°  | 18  | 18    | 17  | 16    | 15  | 20   |
| 90°  | 1   | 8     | 14  | 17    | 19  | 4    |
| 95°  | 45  | 22    | 27  | 31    | 30  | 53   |
| 105° | 211 | 232   | 42  | 50    | 53  | 226  |
| 115° | 399 | 411   | 429 | 107   | 57  | 393  |
| 125° | 565 | 574   | 587 | 592   | 594 | 504  |
| 135° | 699 | 710   | 716 | 723   | 722 | 540  |
| 145° | 811 | 810   | 822 | 827   | 823 | 507  |
| 155° | 893 | 886   | 895 | 899   | 893 | 411  |
| 165° | 940 | 936   | 938 | 943   | 938 | 266  |
| 175° | 962 | 957   | 959 | 963   | 956 | 92   |
| 180° | 960 | 960   | 960 | 960   | 960 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 457.1 | 457.1 | 457.1 | 457.1 | 457.1 |
| 2.5°   | 459.8 | 457.6 | 452.7 | 457.1 | 456.2 |
| 5°     | 457.1 | 455.4 | 450.5 | 454.0 | 453.2 |
| 7.5°   | 454.0 | 451.4 | 446.6 | 450.1 | 449.2 |
| 10°    | 449.2 | 446.1 | 440.9 | 444.4 | 443.1 |
| 12.5°  | 442.6 | 440.0 | 434.7 | 436.9 | 436.0 |
| 15°    | 435.1 | 432.5 | 426.8 | 428.6 | 426.4 |
| 17.5°  | 425.9 | 423.3 | 417.6 | 419.8 | 417.6 |
| 20°    | 415.8 | 413.2 | 407.0 | 408.3 | 406.6 |
| 22.5°  | 405.7 | 401.7 | 396.0 | 396.0 | 395.1 |
| 25°    | 393.8 | 390.3 | 382.8 | 383.7 | 382.8 |
| 27.5°  | 380.6 | 377.6 | 371.9 | 370.5 | 368.3 |
| 30°    | 367.5 | 363.9 | 357.3 | 356.0 | 354.3 |
| 32.5°  | 353.4 | 350.8 | 343.7 | 341.1 | 339.3 |
| 35°    | 339.8 | 335.4 | 328.3 | 325.7 | 323.5 |
| 37.5°  | 324.4 | 320.4 | 313.4 | 310.3 | 308.1 |
| 40°    | 308.6 | 305.0 | 298.0 | 294.1 | 292.3 |
| 42.5°  | 293.2 | 289.7 | 282.6 | 278.2 | 275.6 |
| 45°    | 276.5 | 273.4 | 266.8 | 262.0 | 260.2 |
| 47.5°  | 260.2 | 257.1 | 250.1 | 245.3 | 242.6 |
| 50°    | 243.1 | 240.9 | 234.7 | 228.6 | 226.4 |
| 52.5°  | 226.4 | 223.3 | 217.6 | 212.7 | 209.7 |
| 55°    | 209.2 | 206.6 | 201.3 | 196.0 | 193.8 |
| 57.5°  | 192.1 | 189.9 | 184.2 | 178.9 | 177.1 |
| 60°    | 174.9 | 173.2 | 167.0 | 162.2 | 160.9 |
| 62.5°  | 158.2 | 155.2 | 150.8 | 146.4 | 144.6 |
| 65°    | 141.1 | 138.5 | 134.1 | 130.1 | 127.9 |
| 67.5°  | 123.5 | 121.3 | 117.4 | 114.3 | 112.5 |
| 70°    | 107.2 | 105.5 | 101.5 | 98.5  | 96.7  |
| 72.5°  | 90.5  | 88.8  | 86.6  | 83.5  | 82.2  |
| 75°    | 73.8  | 73.0  | 70.8  | 68.1  | 69.0  |
| 77.5°  | 58.9  | 57.1  | 56.3  | 54.9  | 53.6  |
| 80°    | 44.0  | 43.5  | 42.6  | 41.3  | 40.4  |
| 82.5°  | 29.9  | 29.9  | 29.4  | 27.7  | 27.7  |
| 85°    | 18.0  | 17.6  | 17.1  | 15.8  | 15.4  |
| 87.5°  | 7.9   | 7.0   | 6.2   | 4.8   | 4.4   |
| 90°    | 0.7   | 8.3   | 13.9  | 17.4  | 18.8  |
| 92.5°  | 17.4  | 14.6  | 16.7  | 18.1  | 18.8  |
| 95°    | 45.2  | 22.2  | 27.1  | 30.6  | 29.9  |
| 97.5°  | 81.3  | 24.3  | 35.4  | 37.5  | 38.2  |
| 100°   | 122.9 | 27.8  | 39.6  | 45.2  | 46.5  |
| 102.5° | 168.8 | 167.4 | 41.0  | 48.6  | 50.7  |
| 105°   | 211.2 | 232.0 | 42.4  | 50.0  | 52.8  |
| 107.5° | 260.5 | 277.9 | 43.8  | 51.4  | 54.2  |
| 110°   | 307.7 | 322.3 | 121.6 | 52.1  | 54.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 352.2 | 364.7 | 352.9 | 53.5  | 55.6  |
| 115°   | 399.4 | 411.2 | 428.6 | 107.0 | 57.0  |
| 117.5° | 440.4 | 454.3 | 466.1 | 366.8 | 184.8 |
| 120°   | 486.2 | 496.7 | 509.2 | 517.5 | 423.7 |
| 122.5° | 525.1 | 536.3 | 550.1 | 554.3 | 555.0 |
| 125°   | 564.7 | 573.8 | 587.0 | 591.8 | 593.9 |
| 127.5° | 600.9 | 610.6 | 621.0 | 627.9 | 628.6 |
| 130°   | 634.9 | 646.0 | 653.6 | 661.3 | 660.6 |
| 132.5° | 669.6 | 678.7 | 686.3 | 692.5 | 691.8 |
| 135°   | 698.8 | 709.9 | 716.2 | 723.1 | 721.7 |
| 137.5° | 729.4 | 737.7 | 744.6 | 751.6 | 749.5 |
| 140°   | 759.2 | 764.8 | 772.4 | 778.7 | 775.2 |
| 142.5° | 784.2 | 789.1 | 798.1 | 803.7 | 800.2 |
| 145°   | 810.6 | 809.9 | 821.7 | 826.6 | 823.1 |
| 147.5° | 833.6 | 831.5 | 843.3 | 846.8 | 844.0 |
| 150°   | 855.8 | 850.9 | 862.0 | 866.2 | 862.7 |
| 152.5° | 874.5 | 869.0 | 879.4 | 883.6 | 878.7 |
| 155°   | 892.6 | 886.3 | 894.7 | 898.8 | 893.3 |
| 157.5° | 907.2 | 901.6 | 907.9 | 912.7 | 907.2 |
| 160°   | 919.7 | 915.5 | 919.7 | 923.9 | 919.0 |
| 162.5° | 930.8 | 926.6 | 930.1 | 935.0 | 928.7 |
| 165°   | 940.5 | 936.4 | 938.4 | 943.3 | 938.4 |
| 167.5° | 948.2 | 944.0 | 946.1 | 950.9 | 944.7 |
| 170°   | 954.4 | 950.3 | 951.6 | 956.5 | 950.3 |
| 172.5° | 958.6 | 954.4 | 955.8 | 960.7 | 954.4 |
| 175°   | 962.1 | 957.2 | 958.6 | 963.4 | 956.5 |
| 177.5° | 963.4 | 958.6 | 959.3 | 964.1 | 957.9 |
| 180°   | 960.0 | 960.0 | 960.0 | 960.0 | 960.0 |

(END OF REPORT)