

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: P1009205

Luminaire Tested: S122DIP-B485D925UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009205  
REPORT IS A COMBINATION OF REPORTS P984413 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B485D925UB50-4F0-XX-W2A-D1  
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

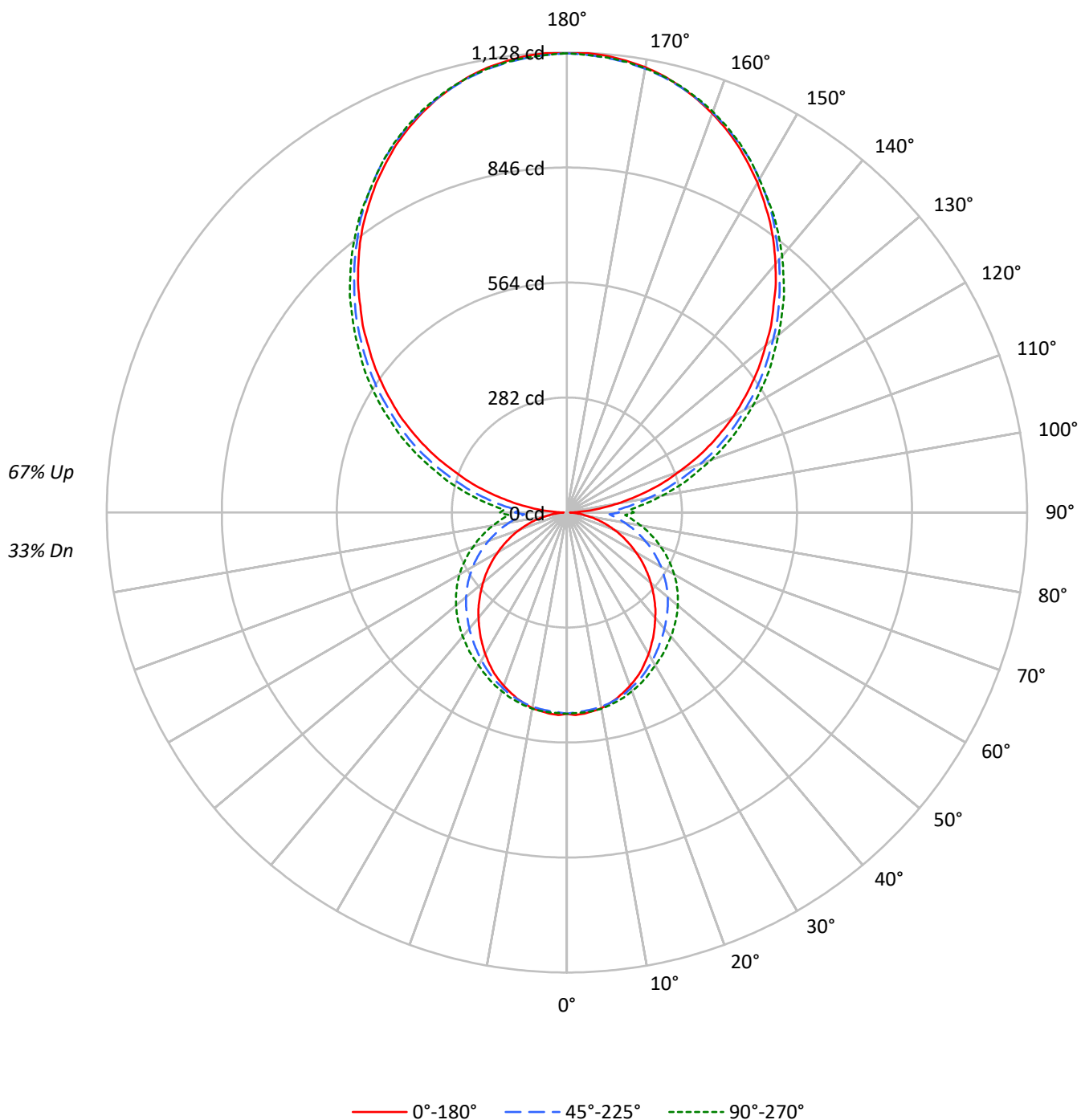
Lumens per Lamp: N/A  
Luminaire Lumens: 5034.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 52.5  
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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 |
| 1   | 93  | 88  | 84  | 80  | 84 | 80 | 76 | 73 | 63 | 61 | 59 | 48 | 47 | 45 | 34 | 33 | 32 |
| 2   | 84  | 77  | 70  | 65  | 76 | 69 | 64 | 59 | 55 | 51 | 48 | 42 | 39 | 37 | 30 | 28 | 26 |
| 3   | 77  | 67  | 59  | 53  | 69 | 60 | 54 | 49 | 48 | 43 | 40 | 37 | 33 | 31 | 26 | 24 | 22 |
| 4   | 70  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 32 | 29 | 26 | 23 | 21 | 19 |
| 5   | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 38 | 32 | 28 | 29 | 25 | 22 | 21 | 18 | 16 |
| 6   | 59  | 47  | 39  | 33  | 53 | 42 | 35 | 30 | 34 | 29 | 25 | 26 | 22 | 19 | 19 | 16 | 14 |
| 7   | 54  | 42  | 34  | 28  | 49 | 38 | 31 | 26 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 14 | 12 |
| 8   | 50  | 38  | 30  | 25  | 45 | 34 | 28 | 23 | 28 | 23 | 19 | 21 | 18 | 15 | 15 | 13 | 11 |
| 9   | 47  | 34  | 27  | 22  | 42 | 31 | 25 | 20 | 25 | 20 | 17 | 20 | 16 | 13 | 14 | 12 | 10 |
| 10  | 43  | 31  | 24  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 11 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7812 | 7812 | 7812 |
| 5°  | 7847 | 7478 | 7437 |
| 10° | 7795 | 7220 | 7114 |
| 15° | 7684 | 6952 | 6784 |
| 20° | 7545 | 6669 | 6470 |
| 25° | 7408 | 6401 | 6186 |
| 30° | 7216 | 6127 | 5904 |
| 35° | 7023 | 5863 | 5698 |
| 40° | 6819 | 5635 | 5491 |
| 45° | 6622 | 5428 | 5312 |
| 50° | 6414 | 5238 | 5135 |
| 55° | 6193 | 5035 | 4955 |
| 60° | 5926 | 4824 | 4767 |
| 65° | 5645 | 4580 | 4548 |
| 70° | 5327 | 4319 | 4315 |
| 75° | 4923 | 4060 | 4092 |
| 80° | 4279 | 3789 | 3864 |
| 85° | 3630 | 3534 | 3666 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6622 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.8   | 0.9       |
| 10°-20°   | 134.2  | 2.7       |
| 20°-30°   | 203.3  | 4.0       |
| 30°-40°   | 247.6  | 4.9       |
| 40°-50°   | 266.4  | 5.3       |
| 50°-60°   | 258.7  | 5.1       |
| 60°-70°   | 225.9  | 4.5       |
| 70°-80°   | 173.9  | 3.5       |
| 80°-90°   | 119.7  | 2.4       |
| 90°-100°  | 150.0  | 3.0       |
| 100°-110° | 280.1  | 5.6       |
| 110°-120° | 417.6  | 8.3       |
| 120°-130° | 519.8  | 10.3      |
| 130°-140° | 568.3  | 11.3      |
| 140°-150° | 550.0  | 10.9      |
| 150°-160° | 460.1  | 9.1       |
| 160°-170° | 305.1  | 6.1       |
| 170°-180° | 106.6  | 2.1       |
| 0°-30°    | 384.3  | 7.6       |
| 0°-40°    | 631.8  | 12.6      |
| 0°-60°    | 1156.9 | 23.0      |
| 0°-90°    | 1676.3 | 33.3      |
| 90°-120°  | 847.7  | 16.8      |
| 90°-150°  | 2485.9 | 49.4      |
| 90°-180°  | 3358.0 | 66.7      |
| 0°-180°   | 5034.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 494  | 494   | 494  | 494   | 494  |      |
| 5°   | 495  | 493   | 488  | 493   | 492  | 47   |
| 15°  | 472  | 474   | 474  | 480   | 479  | 133  |
| 25°  | 429  | 434   | 441  | 449   | 451  | 197  |
| 35°  | 370  | 382   | 396  | 411   | 416  | 231  |
| 45°  | 303  | 323   | 348  | 370   | 377  | 234  |
| 55°  | 232  | 258   | 295  | 321   | 330  | 208  |
| 65°  | 159  | 194   | 236  | 265   | 275  | 158  |
| 75°  | 88   | 128   | 174  | 204   | 214  | 93   |
| 85°  | 26   | 70    | 116  | 146   | 156  | 27   |
| 90°  | 8    | 61    | 128  | 154   | 164  | 8    |
| 95°  | 55   | 98    | 143  | 170   | 177  | 60   |
| 105° | 208  | 231   | 270  | 297   | 305  | 220  |
| 115° | 383  | 396   | 427  | 447   | 452  | 379  |
| 125° | 554  | 563   | 583  | 599   | 605  | 496  |
| 135° | 716  | 727   | 736  | 750   | 753  | 554  |
| 145° | 868  | 875   | 881  | 886   | 886  | 543  |
| 155° | 993  | 996   | 999  | 1003  | 1000 | 457  |
| 165° | 1080 | 1079  | 1079 | 1086  | 1081 | 305  |
| 175° | 1124 | 1121  | 1119 | 1126  | 1120 | 107  |
| 180° | 1126 | 1126  | 1126 | 1126  | 1126 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 |
| 2.5°   | 497.1 | 494.9 | 489.9 | 493.5 | 492.1 |
| 5°     | 494.9 | 492.8 | 488.5 | 492.8 | 492.1 |
| 7.5°   | 491.3 | 489.9 | 486.3 | 491.3 | 490.6 |
| 10°    | 487.1 | 485.6 | 483.5 | 489.2 | 488.5 |
| 12.5°  | 479.9 | 480.6 | 479.2 | 484.9 | 484.2 |
| 15°    | 472.0 | 473.5 | 473.5 | 479.9 | 479.2 |
| 17.5°  | 462.0 | 464.9 | 467.0 | 473.5 | 473.5 |
| 20°    | 452.0 | 455.6 | 458.4 | 466.3 | 466.3 |
| 22.5°  | 441.3 | 445.6 | 449.9 | 457.7 | 459.2 |
| 25°    | 429.1 | 434.1 | 440.6 | 449.2 | 451.3 |
| 27.5°  | 414.8 | 422.7 | 429.8 | 440.6 | 442.0 |
| 30°    | 400.5 | 409.8 | 419.1 | 430.6 | 432.7 |
| 32.5°  | 384.8 | 395.5 | 407.0 | 420.5 | 424.8 |
| 35°    | 369.8 | 381.9 | 395.5 | 411.2 | 416.3 |
| 37.5°  | 353.3 | 366.9 | 384.1 | 401.2 | 406.2 |
| 40°    | 336.9 | 352.6 | 371.9 | 390.5 | 396.9 |
| 42.5°  | 321.1 | 336.9 | 359.7 | 380.5 | 386.9 |
| 45°    | 303.2 | 322.6 | 347.6 | 369.8 | 376.9 |
| 47.5°  | 286.1 | 306.8 | 335.4 | 358.3 | 366.2 |
| 50°    | 268.2 | 290.4 | 322.6 | 346.9 | 354.7 |
| 52.5°  | 251.0 | 274.6 | 309.0 | 334.0 | 342.6 |
| 55°    | 232.4 | 258.2 | 295.4 | 321.1 | 330.4 |
| 57.5°  | 214.6 | 243.2 | 280.4 | 308.3 | 317.6 |
| 60°    | 195.3 | 226.0 | 266.8 | 294.0 | 304.0 |
| 62.5°  | 178.1 | 210.3 | 251.0 | 280.4 | 289.7 |
| 65°    | 158.8 | 193.8 | 236.0 | 265.3 | 274.6 |
| 67.5°  | 141.6 | 178.1 | 221.0 | 250.3 | 260.3 |
| 70°    | 123.0 | 160.2 | 204.5 | 235.3 | 243.9 |
| 72.5°  | 105.9 | 144.5 | 189.5 | 219.6 | 230.3 |
| 75°    | 88.0  | 128.0 | 173.8 | 204.5 | 213.8 |
| 77.5°  | 70.8  | 112.3 | 158.8 | 189.5 | 199.5 |
| 80°    | 53.6  | 97.3  | 143.8 | 173.8 | 183.8 |
| 82.5°  | 39.3  | 82.2  | 129.5 | 159.5 | 168.8 |
| 85°    | 25.7  | 70.1  | 115.9 | 145.9 | 155.9 |
| 87.5°  | 15.7  | 58.6  | 104.4 | 133.7 | 143.0 |
| 90°    | 8.2   | 61.0  | 127.7 | 154.4 | 163.9 |
| 92.5°  | 27.3  | 72.8  | 117.5 | 146.3 | 154.8 |
| 95°    | 55.1  | 98.2  | 143.0 | 170.2 | 176.9 |
| 97.5°  | 87.7  | 127.0 | 172.2 | 198.7 | 207.3 |
| 100°   | 125.7 | 159.8 | 202.6 | 229.1 | 236.1 |
| 102.5° | 164.9 | 194.2 | 236.6 | 263.3 | 270.2 |
| 105°   | 207.9 | 231.4 | 270.5 | 297.4 | 305.3 |
| 107.5° | 251.6 | 272.5 | 308.3 | 333.5 | 336.7 |
| 110°   | 292.7 | 312.7 | 347.7 | 370.6 | 375.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 338.3  | 355.4  | 387.3  | 407.4  | 413.4  |
| 115°   | 382.9  | 396.5  | 426.8  | 447.3  | 452.2  |
| 117.5° | 426.8  | 440.2  | 465.5  | 484.1  | 488.4  |
| 120°   | 471.5  | 482.0  | 503.0  | 523.0  | 528.0  |
| 122.5° | 512.3  | 522.6  | 544.3  | 560.7  | 565.3  |
| 125°   | 554.4  | 562.9  | 583.0  | 599.4  | 605.0  |
| 127.5° | 596.2  | 605.9  | 621.4  | 635.5  | 639.1  |
| 130°   | 635.1  | 646.8  | 659.9  | 675.2  | 677.1  |
| 132.5° | 678.8  | 687.6  | 699.3  | 711.0  | 713.9  |
| 135°   | 716.1  | 726.6  | 735.7  | 749.7  | 752.6  |
| 137.5° | 757.9  | 766.5  | 772.0  | 784.7  | 785.8  |
| 140°   | 795.0  | 802.9  | 809.0  | 820.5  | 821.0  |
| 142.5° | 833.0  | 840.9  | 843.7  | 853.3  | 853.1  |
| 145°   | 868.4  | 875.1  | 880.8  | 886.0  | 885.8  |
| 147.5° | 900.7  | 909.3  | 913.1  | 915.7  | 914.1  |
| 150°   | 934.0  | 939.7  | 943.5  | 946.3  | 943.5  |
| 152.5° | 963.4  | 969.1  | 973.9  | 977.7  | 973.9  |
| 155°   | 992.9  | 995.7  | 998.6  | 1003.3 | 1000.5 |
| 157.5° | 1018.5 | 1020.4 | 1022.3 | 1029.0 | 1024.2 |
| 160°   | 1041.3 | 1043.2 | 1044.2 | 1049.9 | 1046.1 |
| 162.5° | 1062.2 | 1062.2 | 1063.2 | 1069.8 | 1065.1 |
| 165°   | 1080.3 | 1079.3 | 1079.3 | 1086.0 | 1081.2 |
| 167.5° | 1096.4 | 1093.6 | 1093.6 | 1100.2 | 1095.5 |
| 170°   | 1108.8 | 1105.9 | 1105.0 | 1111.6 | 1105.9 |
| 172.5° | 1117.3 | 1114.5 | 1113.5 | 1120.2 | 1114.5 |
| 175°   | 1124.0 | 1121.1 | 1119.2 | 1125.9 | 1120.2 |
| 177.5° | 1127.8 | 1124.9 | 1123.0 | 1128.7 | 1123.0 |
| 180°   | 1125.9 | 1125.9 | 1125.9 | 1125.9 | 1125.9 |

(END OF REPORT)