

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: P1027233

Luminaire Tested: S125RDIP-B610D375UB2750-4F0-XX-W2A-F\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027233  
REPORT IS A COMBINATION OF REPORTS P1005614 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIP-B610D375UB2750-4F0-XX-W2A-F\_5000K  
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}  
{m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

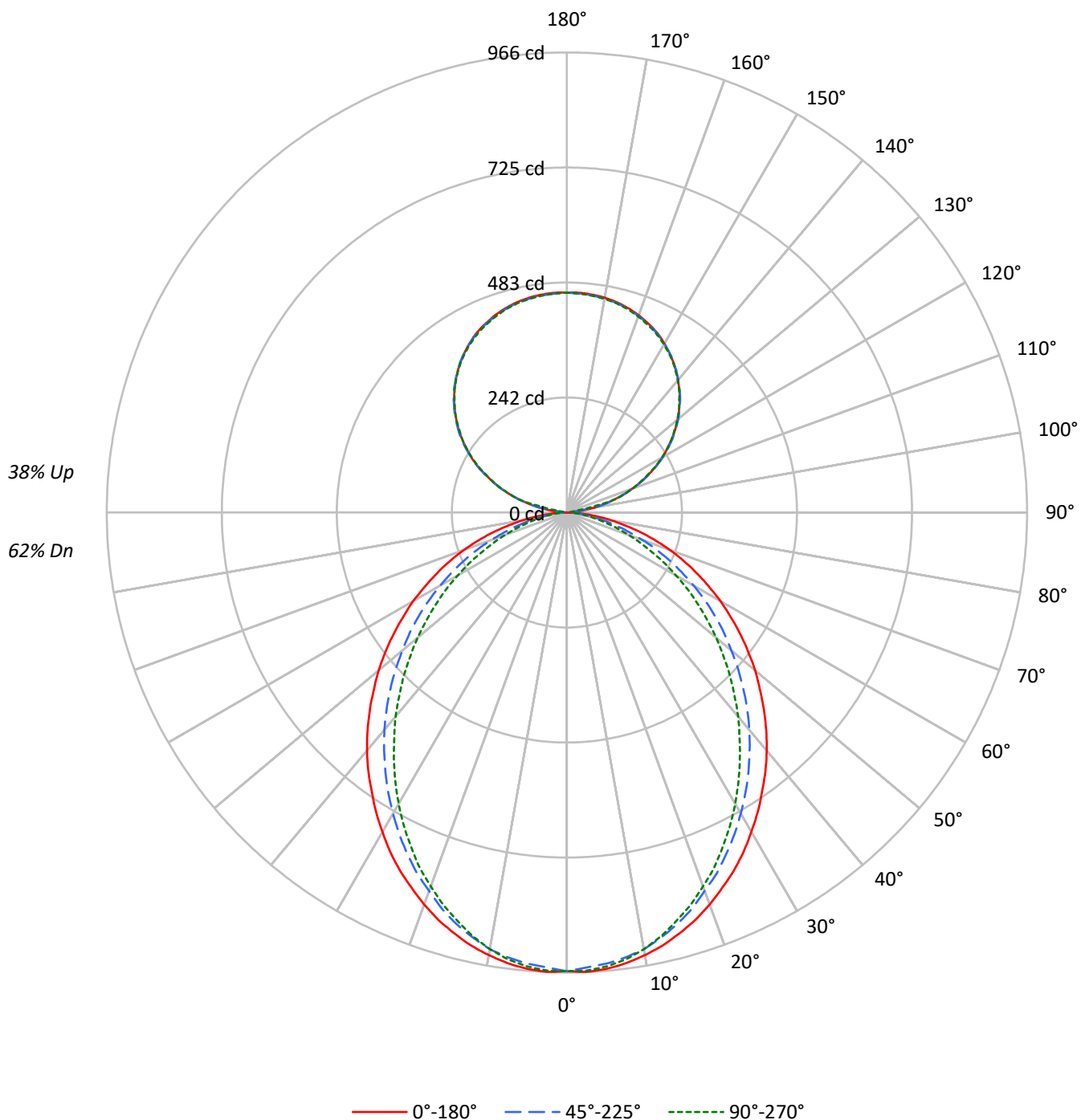
Lumens per Lamp: N/A  
Luminaire Lumens: 3694.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 33.3  
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   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 |
| 1   | 101 | 96  | 93  | 89  | 94  | 90  | 87  | 84  | 79 | 77 | 74 | 69 | 67 | 65 | 60 | 58 | 57 |
| 2   | 92  | 84  | 78  | 73  | 86  | 79  | 74  | 69  | 70 | 66 | 62 | 61 | 58 | 55 | 53 | 50 | 48 |
| 3   | 84  | 75  | 67  | 61  | 78  | 70  | 64  | 58  | 62 | 57 | 53 | 54 | 50 | 47 | 47 | 44 | 41 |
| 4   | 77  | 66  | 58  | 52  | 72  | 62  | 55  | 50  | 55 | 49 | 45 | 48 | 44 | 40 | 42 | 39 | 36 |
| 5   | 71  | 59  | 51  | 45  | 66  | 56  | 48  | 43  | 49 | 44 | 39 | 44 | 39 | 35 | 38 | 34 | 31 |
| 6   | 65  | 53  | 45  | 39  | 61  | 50  | 43  | 37  | 45 | 39 | 34 | 39 | 35 | 31 | 35 | 31 | 28 |
| 7   | 61  | 48  | 40  | 34  | 57  | 46  | 38  | 33  | 41 | 35 | 30 | 36 | 31 | 28 | 32 | 28 | 25 |
| 8   | 56  | 44  | 36  | 31  | 53  | 42  | 34  | 29  | 37 | 31 | 27 | 33 | 28 | 25 | 29 | 25 | 22 |
| 9   | 52  | 40  | 33  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 30 | 26 | 22 | 27 | 23 | 20 |
| 10  | 49  | 37  | 30  | 25  | 46  | 35  | 28  | 24  | 32 | 26 | 22 | 28 | 24 | 20 | 25 | 21 | 18 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6172 | 6172 | 6172 |
| 5°  | 6173 | 6018 | 6028 |
| 10° | 6113 | 5867 | 5815 |
| 15° | 6026 | 5654 | 5535 |
| 20° | 5919 | 5399 | 5241 |
| 25° | 5797 | 5149 | 4926 |
| 30° | 5646 | 4876 | 4595 |
| 35° | 5492 | 4597 | 4244 |
| 40° | 5346 | 4311 | 3900 |
| 45° | 5171 | 4002 | 3541 |
| 50° | 4994 | 3675 | 3175 |
| 55° | 4787 | 3352 | 2796 |
| 60° | 4575 | 2983 | 2402 |
| 65° | 4324 | 2571 | 1979 |
| 70° | 4030 | 2093 | 1557 |
| 75° | 3625 | 1574 | 1135 |
| 80° | 3057 | 1020 | 765  |
| 85° | 2287 | 548  | 431  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5171 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.7   | 2.5       |
| 10°-20°   | 253.4  | 6.9       |
| 20°-30°   | 367.4  | 9.9       |
| 30°-40°   | 418.6  | 11.3      |
| 40°-50°   | 408.0  | 11.0      |
| 50°-60°   | 343.3  | 9.3       |
| 60°-70°   | 240.6  | 6.5       |
| 70°-80°   | 123.3  | 3.3       |
| 80°-90°   | 31.4   | 0.9       |
| 90°-100°  | 15.7   | 0.4       |
| 100°-110° | 104.1  | 2.8       |
| 110°-120° | 187.5  | 5.1       |
| 120°-130° | 240.7  | 6.5       |
| 130°-140° | 258.9  | 7.0       |
| 140°-150° | 243.0  | 6.6       |
| 150°-160° | 196.5  | 5.3       |
| 160°-170° | 127.1  | 3.4       |
| 170°-180° | 43.8   | 1.2       |
| 0°-30°    | 711.4  | 19.3      |
| 0°-40°    | 1130.0 | 30.6      |
| 0°-60°    | 1881.3 | 50.9      |
| 0°-90°    | 2276.7 | 61.6      |
| 90°-120°  | 307.3  | 8.3       |
| 90°-150°  | 1049.8 | 28.4      |
| 90°-180°  | 1417.0 | 38.4      |
| 0°-180°   | 3694.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 963 | 963   | 963 | 963   | 963 |      |
| 5°   | 962 | 959   | 951 | 958   | 957 | 91   |
| 15°  | 915 | 910   | 895 | 894   | 888 | 258  |
| 25°  | 830 | 818   | 792 | 782   | 774 | 382  |
| 35°  | 714 | 697   | 664 | 643   | 633 | 447  |
| 45°  | 585 | 564   | 524 | 495   | 484 | 451  |
| 55°  | 444 | 420   | 380 | 347   | 335 | 397  |
| 65°  | 300 | 276   | 237 | 208   | 197 | 298  |
| 75°  | 160 | 138   | 108 | 92    | 87  | 169  |
| 85°  | 40  | 27    | 23  | 23    | 22  | 44   |
| 90°  | 0   | 3     | 6   | 7     | 8   | 3    |
| 95°  | 20  | 18    | 6   | 7     | 7   | 24   |
| 105° | 101 | 102   | 102 | 102   | 102 | 107  |
| 115° | 189 | 190   | 191 | 190   | 187 | 187  |
| 125° | 268 | 271   | 271 | 270   | 268 | 240  |
| 135° | 335 | 337   | 336 | 336   | 334 | 258  |
| 145° | 388 | 389   | 389 | 389   | 387 | 243  |
| 155° | 428 | 426   | 426 | 427   | 424 | 197  |
| 165° | 451 | 449   | 449 | 452   | 449 | 127  |
| 175° | 461 | 459   | 460 | 462   | 459 | 44   |
| 180° | 461 | 461   | 461 | 461   | 461 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 |
| 2.5°   | 965.5 | 963.3 | 956.1 | 963.3 | 962.6 |
| 5°     | 961.9 | 959.0 | 951.0 | 958.2 | 956.8 |
| 7.5°   | 954.6 | 951.7 | 942.2 | 948.0 | 946.6 |
| 10°    | 943.7 | 941.5 | 931.3 | 933.5 | 931.3 |
| 12.5°  | 931.3 | 928.4 | 913.9 | 915.3 | 911.7 |
| 15°    | 914.6 | 910.2 | 894.9 | 894.2 | 887.7 |
| 17.5°  | 897.1 | 890.6 | 872.4 | 868.7 | 863.6 |
| 20°    | 876.0 | 868.7 | 845.5 | 841.8 | 835.3 |
| 22.5°  | 852.7 | 845.5 | 820.7 | 812.7 | 807.6 |
| 25°    | 829.5 | 818.5 | 791.6 | 782.2 | 774.2 |
| 27.5°  | 803.3 | 790.2 | 761.8 | 749.4 | 741.4 |
| 30°    | 774.2 | 760.3 | 729.8 | 713.0 | 706.5 |
| 32.5°  | 745.8 | 729.0 | 697.8 | 678.8 | 670.1 |
| 35°    | 714.5 | 697.0 | 664.3 | 643.2 | 633.0 |
| 37.5°  | 684.7 | 663.6 | 630.1 | 605.4 | 595.2 |
| 40°    | 652.6 | 630.8 | 595.9 | 568.2 | 559.5 |
| 42.5°  | 619.2 | 596.6 | 560.2 | 534.1 | 520.2 |
| 45°    | 585.0 | 563.9 | 523.9 | 494.8 | 483.8 |
| 47.5°  | 549.3 | 527.5 | 487.5 | 457.7 | 445.3 |
| 50°    | 515.9 | 491.8 | 450.4 | 419.8 | 408.9 |
| 52.5°  | 479.5 | 454.7 | 416.2 | 382.7 | 371.8 |
| 55°    | 443.8 | 420.5 | 379.8 | 347.1 | 335.4 |
| 57.5°  | 407.4 | 382.7 | 343.4 | 311.4 | 301.2 |
| 60°    | 372.5 | 347.1 | 307.8 | 275.8 | 264.8 |
| 62.5°  | 335.4 | 311.4 | 271.4 | 242.3 | 231.4 |
| 65°    | 300.5 | 275.8 | 237.2 | 208.1 | 197.2 |
| 67.5°  | 265.6 | 240.8 | 203.7 | 176.1 | 167.3 |
| 70°    | 229.9 | 205.2 | 168.8 | 146.2 | 137.5 |
| 72.5°  | 195.0 | 171.0 | 137.5 | 117.1 | 112.0 |
| 75°    | 160.1 | 138.2 | 107.7 | 91.7  | 86.6  |
| 77.5°  | 124.4 | 107.0 | 81.5  | 69.1  | 64.8  |
| 80°    | 94.6  | 77.1  | 56.8  | 50.2  | 48.7  |
| 82.5°  | 65.5  | 50.2  | 37.8  | 35.7  | 34.9  |
| 85°    | 40.0  | 26.9  | 23.3  | 22.6  | 21.8  |
| 87.5°  | 16.7  | 11.6  | 10.9  | 10.9  | 10.2  |
| 90°    | 0.3   | 3.1   | 5.5   | 7.2   | 8.2   |
| 92.5°  | 6.5   | 3.4   | 5.5   | 7.2   | 7.5   |
| 95°    | 19.5  | 18.5  | 5.5   | 7.2   | 7.2   |
| 97.5°  | 36.6  | 38.6  | 6.2   | 6.8   | 7.2   |
| 100°   | 57.1  | 58.1  | 59.5  | 8.6   | 7.2   |
| 102.5° | 78.0  | 79.4  | 80.0  | 80.7  | 52.0  |
| 105°   | 100.6 | 101.9 | 101.9 | 101.9 | 101.6 |
| 107.5° | 123.8 | 123.8 | 124.5 | 124.8 | 123.5 |
| 110°   | 146.4 | 146.4 | 147.1 | 146.0 | 146.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 167.6 | 168.6 | 169.0 | 167.6 | 166.9 |
| 115°   | 188.8 | 190.5 | 190.9 | 189.5 | 187.4 |
| 117.5° | 211.0 | 211.0 | 212.4 | 210.3 | 209.7 |
| 120°   | 231.6 | 231.2 | 232.2 | 231.6 | 229.8 |
| 122.5° | 249.7 | 251.4 | 251.7 | 251.0 | 249.0 |
| 125°   | 268.5 | 270.9 | 270.9 | 269.5 | 268.5 |
| 127.5° | 286.6 | 288.3 | 288.0 | 287.3 | 284.6 |
| 130°   | 303.0 | 304.7 | 305.1 | 304.1 | 302.4 |
| 132.5° | 319.5 | 321.5 | 320.5 | 320.5 | 318.8 |
| 135°   | 334.8 | 336.9 | 336.2 | 335.5 | 333.5 |
| 137.5° | 349.2 | 351.3 | 350.6 | 350.6 | 348.9 |
| 140°   | 363.2 | 363.9 | 363.6 | 364.3 | 362.2 |
| 142.5° | 375.9 | 376.2 | 376.9 | 376.9 | 374.9 |
| 145°   | 388.2 | 388.9 | 388.9 | 389.2 | 387.2 |
| 147.5° | 399.1 | 399.1 | 399.5 | 399.8 | 397.4 |
| 150°   | 409.4 | 408.7 | 409.4 | 410.1 | 407.4 |
| 152.5° | 419.3 | 417.6 | 418.3 | 419.0 | 416.6 |
| 155°   | 427.5 | 425.5 | 426.2 | 427.2 | 424.5 |
| 157.5° | 434.0 | 433.0 | 433.0 | 434.0 | 431.3 |
| 160°   | 440.9 | 438.8 | 439.2 | 440.5 | 437.8 |
| 162.5° | 446.3 | 444.3 | 444.6 | 446.7 | 443.6 |
| 165°   | 451.1 | 449.1 | 449.4 | 451.5 | 448.7 |
| 167.5° | 454.9 | 452.8 | 453.2 | 455.6 | 452.5 |
| 170°   | 458.0 | 455.6 | 455.9 | 458.7 | 455.6 |
| 172.5° | 460.0 | 457.6 | 458.3 | 460.7 | 457.6 |
| 175°   | 461.4 | 459.3 | 459.7 | 462.4 | 459.3 |
| 177.5° | 462.4 | 460.4 | 460.7 | 463.1 | 460.4 |
| 180°   | 461.4 | 461.4 | 461.4 | 461.4 | 461.4 |

(END OF REPORT)