

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: P1028085

Luminaire Tested: S125DIP-B610D375UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1028085  
REPORT IS A COMBINATION OF REPORTS P1002279 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B610D375UB35-4F0-XX-W2A-F1  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

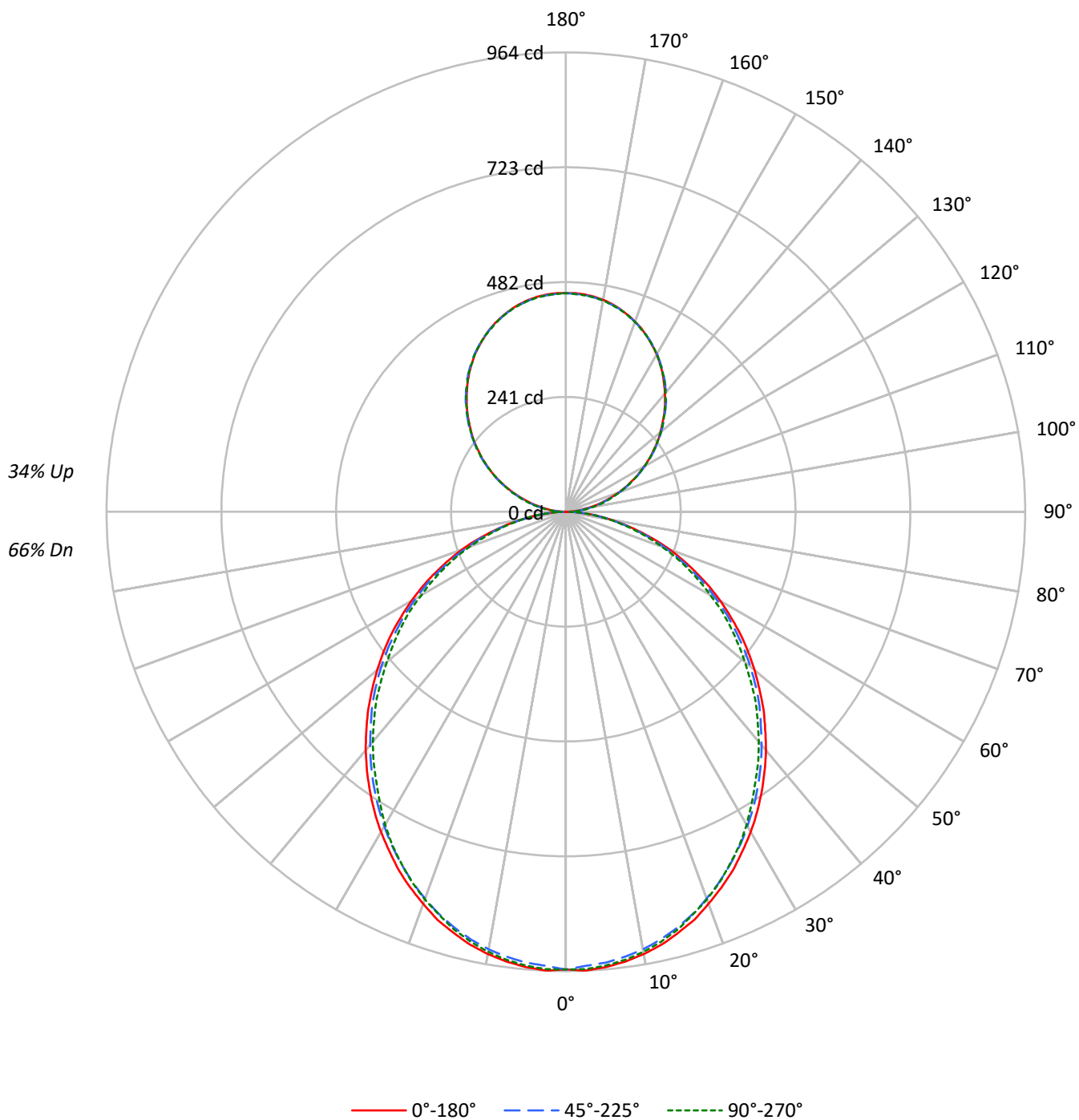
Lumens per Lamp: N/A  
Luminaire Lumens: 3781.0 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 71 | 71 | 71 |
| 1   | 101 | 97  | 93  | 89  | 95  | 91  | 88  | 85  | 81 | 78 | 76 | 71 | 69 | 68 | 63 | 61 | 60 |
| 2   | 92  | 85  | 78  | 73  | 87  | 80  | 74  | 69  | 71 | 67 | 63 | 63 | 59 | 56 | 55 | 53 | 50 |
| 3   | 84  | 74  | 67  | 61  | 79  | 70  | 63  | 58  | 63 | 57 | 53 | 55 | 51 | 48 | 49 | 46 | 43 |
| 4   | 77  | 66  | 58  | 51  | 72  | 62  | 55  | 49  | 56 | 50 | 45 | 49 | 45 | 41 | 44 | 40 | 37 |
| 5   | 71  | 59  | 50  | 44  | 66  | 56  | 48  | 42  | 50 | 44 | 39 | 44 | 39 | 35 | 39 | 35 | 32 |
| 6   | 65  | 53  | 44  | 38  | 61  | 50  | 42  | 37  | 45 | 39 | 34 | 40 | 35 | 31 | 36 | 32 | 28 |
| 7   | 60  | 48  | 40  | 34  | 57  | 45  | 38  | 33  | 41 | 35 | 30 | 37 | 31 | 28 | 33 | 28 | 25 |
| 8   | 56  | 43  | 35  | 30  | 53  | 41  | 34  | 29  | 37 | 31 | 27 | 34 | 28 | 25 | 30 | 26 | 23 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 23 | 20 |
| 10  | 49  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 22 | 19 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6154 | 6154 | 6154 |
| 5°  | 6154 | 6012 | 6023 |
| 10° | 6104 | 5873 | 5855 |
| 15° | 6024 | 5708 | 5657 |
| 20° | 5915 | 5517 | 5431 |
| 25° | 5799 | 5309 | 5188 |
| 30° | 5659 | 5092 | 4933 |
| 35° | 5509 | 4864 | 4646 |
| 40° | 5353 | 4624 | 4392 |
| 45° | 5186 | 4389 | 4121 |
| 50° | 5001 | 4123 | 3805 |
| 55° | 4819 | 3829 | 3515 |
| 60° | 4601 | 3520 | 3178 |
| 65° | 4341 | 3162 | 2829 |
| 70° | 4076 | 2751 | 2427 |
| 75° | 3630 | 2265 | 1962 |
| 80° | 3093 | 1691 | 1443 |
| 85° | 2390 | 1002 | 796  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5186 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.6   | 2.4       |
| 10°-20°   | 256.0  | 6.8       |
| 20°-30°   | 378.0  | 10.0      |
| 30°-40°   | 441.0  | 11.7      |
| 40°-50°   | 442.9  | 11.7      |
| 50°-60°   | 388.8  | 10.3      |
| 60°-70°   | 289.6  | 7.7       |
| 70°-80°   | 165.4  | 4.4       |
| 80°-90°   | 48.5   | 1.3       |
| 90°-100°  | 30.5   | 0.8       |
| 100°-110° | 90.6   | 2.4       |
| 110°-120° | 153.7  | 4.1       |
| 120°-130° | 202.3  | 5.4       |
| 130°-140° | 226.7  | 6.0       |
| 140°-150° | 222.2  | 5.9       |
| 150°-160° | 186.7  | 4.9       |
| 160°-170° | 124.1  | 3.3       |
| 170°-180° | 43.4   | 1.1       |
| <hr/>     |        |           |
| 0°-30°    | 724.6  | 19.2      |
| 0°-40°    | 1165.6 | 30.8      |
| 0°-60°    | 1997.3 | 52.8      |
| 0°-90°    | 2500.7 | 66.1      |
| 90°-120°  | 274.8  | 7.3       |
| 90°-150°  | 926.1  | 24.5      |
| 90°-180°  | 1280.0 | 33.9      |
| 0°-180°   | 3781.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 960 | 960   | 960 | 960   | 960 |      |
| 5°   | 959 | 958   | 950 | 957   | 956 | 91   |
| 15°  | 914 | 912   | 904 | 907   | 907 | 258  |
| 25°  | 830 | 826   | 816 | 818   | 815 | 382  |
| 35°  | 717 | 714   | 703 | 699   | 693 | 448  |
| 45°  | 587 | 584   | 574 | 565   | 563 | 452  |
| 55°  | 447 | 444   | 434 | 427   | 422 | 399  |
| 65°  | 302 | 300   | 292 | 285   | 282 | 299  |
| 75°  | 160 | 159   | 155 | 153   | 150 | 171  |
| 85°  | 42  | 43    | 43  | 42    | 40  | 46   |
| 90°  | 0   | 3     | 6   | 8     | 9   | 4    |
| 95°  | 23  | 24    | 28  | 30    | 31  | 24   |
| 105° | 81  | 83    | 85  | 88    | 88  | 87   |
| 115° | 154 | 155   | 156 | 156   | 155 | 152  |
| 125° | 224 | 227   | 227 | 226   | 226 | 201  |
| 135° | 292 | 294   | 294 | 294   | 293 | 225  |
| 145° | 354 | 355   | 356 | 356   | 355 | 221  |
| 155° | 405 | 405   | 405 | 407   | 405 | 186  |
| 165° | 440 | 440   | 440 | 441   | 439 | 124  |
| 175° | 458 | 456   | 456 | 458   | 456 | 43   |
| 180° | 459 | 459   | 459 | 459   | 459 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 960.5 | 960.5 | 960.5 | 960.5 | 960.5 |
| 2.5°   | 963.6 | 961.3 | 953.7 | 961.3 | 960.5 |
| 5°     | 959.0 | 957.5 | 949.9 | 956.7 | 956.0 |
| 7.5°   | 952.2 | 950.6 | 942.3 | 949.1 | 948.4 |
| 10°    | 942.3 | 940.8 | 932.4 | 938.5 | 937.7 |
| 12.5°  | 930.1 | 927.1 | 919.5 | 924.0 | 924.0 |
| 15°    | 914.2 | 911.9 | 903.5 | 907.3 | 907.3 |
| 17.5°  | 897.4 | 893.6 | 885.3 | 889.8 | 886.1 |
| 20°    | 875.4 | 873.9 | 864.0 | 869.3 | 865.5 |
| 22.5°  | 853.4 | 850.3 | 841.2 | 844.3 | 842.0 |
| 25°    | 829.8 | 826.0 | 816.1 | 817.7 | 815.4 |
| 27.5°  | 802.5 | 800.2 | 790.3 | 791.1 | 788.8 |
| 30°    | 775.9 | 773.6 | 762.2 | 760.7 | 758.4 |
| 32.5°  | 747.0 | 743.2 | 733.3 | 730.3 | 725.7 |
| 35°    | 716.6 | 713.6 | 702.9 | 699.1 | 693.0 |
| 37.5°  | 685.4 | 681.6 | 671.8 | 666.4 | 662.6 |
| 40°    | 653.5 | 649.7 | 639.1 | 632.2 | 630.0 |
| 42.5°  | 619.3 | 616.3 | 605.6 | 599.6 | 595.8 |
| 45°    | 586.6 | 583.6 | 574.5 | 565.4 | 563.1 |
| 47.5°  | 550.9 | 551.7 | 540.3 | 531.2 | 525.9 |
| 50°    | 516.7 | 514.5 | 505.3 | 495.5 | 490.1 |
| 52.5°  | 481.8 | 480.3 | 470.4 | 462.0 | 455.9 |
| 55°    | 446.8 | 444.5 | 433.9 | 427.1 | 421.7 |
| 57.5°  | 409.6 | 408.8 | 399.7 | 390.6 | 388.3 |
| 60°    | 374.6 | 371.6 | 363.2 | 355.6 | 350.3 |
| 62.5°  | 338.2 | 335.9 | 329.0 | 320.7 | 316.9 |
| 65°    | 301.7 | 300.2 | 291.8 | 285.0 | 281.9 |
| 67.5°  | 266.0 | 262.9 | 256.8 | 250.8 | 249.2 |
| 70°    | 232.5 | 228.7 | 221.9 | 217.3 | 214.3 |
| 72.5°  | 196.1 | 193.8 | 190.0 | 184.7 | 181.6 |
| 75°    | 160.3 | 158.8 | 155.0 | 152.7 | 149.7 |
| 77.5°  | 126.9 | 126.1 | 123.9 | 122.3 | 120.1 |
| 80°    | 95.7  | 95.7  | 94.2  | 93.5  | 91.9  |
| 82.5°  | 68.4  | 66.9  | 66.9  | 65.4  | 65.4  |
| 85°    | 41.8  | 42.6  | 42.6  | 41.8  | 40.3  |
| 87.5°  | 20.5  | 20.5  | 19.8  | 19.8  | 18.2  |
| 90°    | 0.4   | 3.2   | 5.7   | 7.5   | 8.6   |
| 92.5°  | 10.7  | 12.5  | 15.7  | 18.2  | 18.9  |
| 95°    | 23.2  | 23.9  | 27.5  | 30.0  | 30.7  |
| 97.5°  | 35.7  | 36.1  | 41.1  | 43.2  | 43.6  |
| 100°   | 50.0  | 50.0  | 54.6  | 57.8  | 58.5  |
| 102.5° | 65.3  | 67.1  | 68.9  | 72.5  | 73.5  |
| 105°   | 81.4  | 83.2  | 85.3  | 87.5  | 88.5  |
| 107.5° | 98.9  | 100.7 | 102.5 | 103.5 | 103.5 |
| 110°   | 117.1 | 118.9 | 119.9 | 121.0 | 120.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 135.7 | 136.4 | 137.8 | 138.2 | 137.4 |
| 115°   | 153.9 | 155.3 | 156.0 | 155.6 | 155.3 |
| 117.5° | 172.4 | 172.8 | 173.5 | 173.9 | 172.4 |
| 120°   | 189.6 | 191.3 | 191.7 | 191.7 | 190.3 |
| 122.5° | 208.1 | 208.5 | 209.6 | 209.2 | 208.1 |
| 125°   | 224.5 | 226.7 | 227.0 | 226.3 | 226.0 |
| 127.5° | 242.8 | 243.8 | 244.2 | 243.8 | 243.1 |
| 130°   | 258.8 | 260.6 | 261.3 | 261.0 | 260.2 |
| 132.5° | 274.9 | 278.1 | 277.7 | 277.4 | 276.3 |
| 135°   | 292.0 | 294.2 | 294.5 | 294.5 | 293.1 |
| 137.5° | 308.1 | 310.2 | 310.9 | 311.3 | 309.5 |
| 140°   | 323.4 | 325.2 | 326.3 | 327.0 | 325.2 |
| 142.5° | 338.8 | 340.2 | 341.6 | 342.0 | 340.2 |
| 145°   | 353.8 | 355.2 | 356.3 | 356.3 | 355.2 |
| 147.5° | 367.7 | 368.8 | 369.5 | 370.6 | 367.7 |
| 150°   | 381.6 | 381.3 | 382.7 | 382.7 | 382.0 |
| 152.5° | 393.0 | 393.8 | 394.1 | 395.2 | 393.8 |
| 155°   | 404.8 | 404.8 | 405.2 | 406.6 | 404.8 |
| 157.5° | 415.5 | 414.8 | 415.2 | 416.6 | 414.1 |
| 160°   | 424.8 | 423.7 | 424.1 | 425.5 | 423.7 |
| 162.5° | 433.0 | 432.3 | 432.3 | 434.1 | 432.0 |
| 165°   | 440.2 | 439.5 | 439.8 | 441.2 | 439.1 |
| 167.5° | 446.6 | 445.2 | 445.2 | 447.3 | 445.2 |
| 170°   | 451.6 | 450.2 | 450.2 | 452.3 | 449.8 |
| 172.5° | 455.2 | 453.7 | 453.7 | 455.9 | 453.7 |
| 175°   | 457.7 | 456.2 | 456.2 | 458.4 | 455.9 |
| 177.5° | 459.4 | 458.0 | 457.7 | 459.8 | 457.3 |
| 180°   | 458.7 | 458.7 | 458.7 | 458.7 | 458.7 |

(END OF REPORT)