

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: P1026916

Luminaire Tested: S125DIP-B610D1090UB2750-4F0-XX-W2A-F\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026916  
REPORT IS A COMBINATION OF REPORTS P1002140 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B610D1090UB2750-4F0-XX-W2A-F\_3500K  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

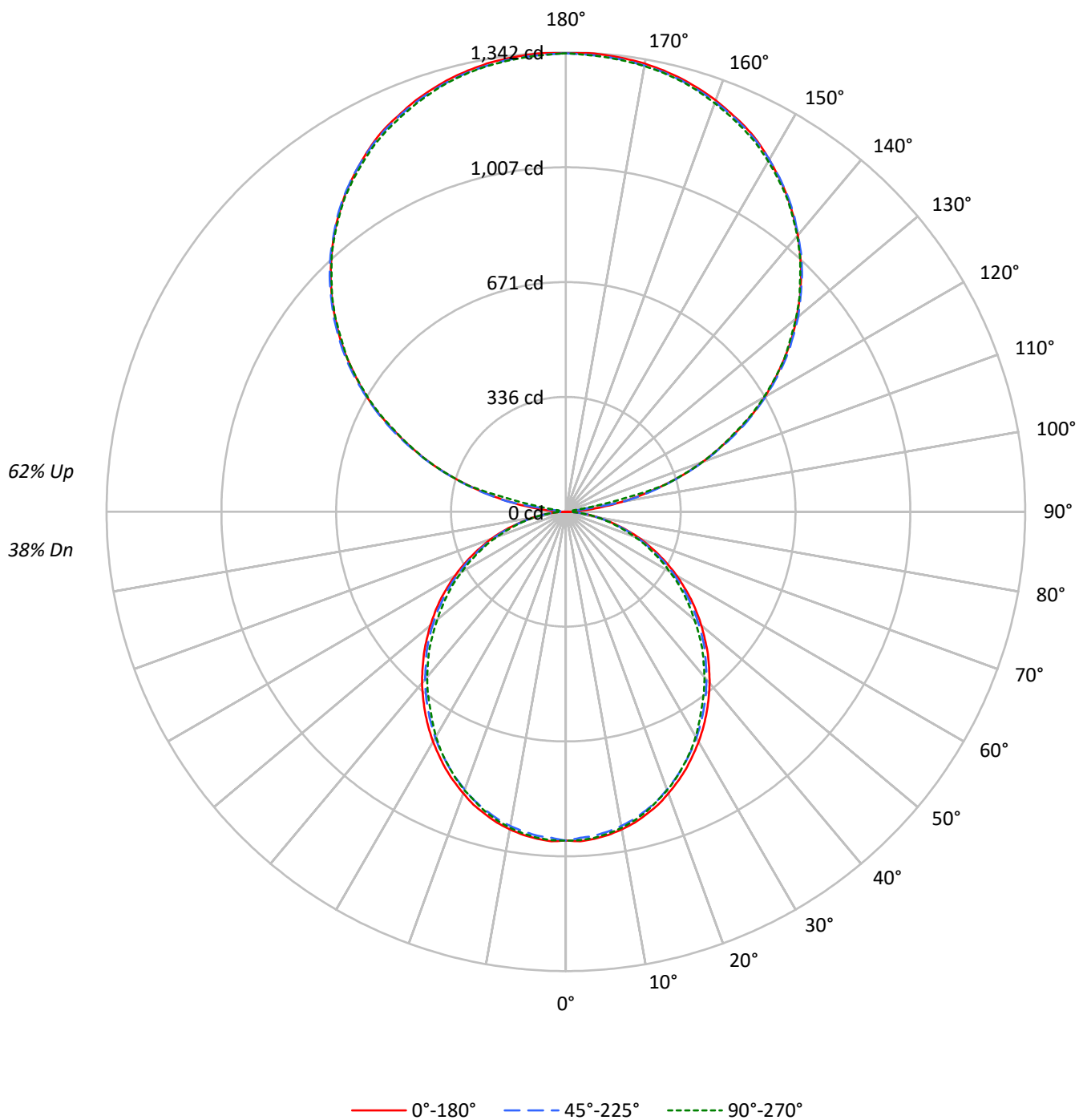
Lumens per Lamp: N/A  
Luminaire Lumens: 6616.0 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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 |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 | 38 |    |    |
| 1   | 95  | 91  | 87  | 83  | 86 | 82 | 79 | 76 | 67 | 65 | 63 | 53 | 51 | 50 | 40 | 39 | 38 | 32 |    |    |
| 2   | 86  | 79  | 73  | 68  | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 46 | 44 | 42 | 35 | 33 | 32 | 27 |    |    |
| 3   | 79  | 70  | 62  | 57  | 71 | 63 | 57 | 52 | 52 | 47 | 43 | 41 | 38 | 35 | 31 | 29 | 27 | 22 |    |    |
| 4   | 72  | 61  | 54  | 48  | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 28 | 25 | 23 | 19 |    |    |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 22 | 20 | 17 |    |    |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 29 | 26 | 23 | 22 | 20 | 18 | 15 |    |    |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 34 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 20 | 18 | 16 | 13 |    |    |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 21 | 18 | 19 | 16 | 14 | 12 |    |    |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 10 |    |    |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 24 | 20 | 25 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 12 | 10 |    |    |

**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   | 1.4       |
| 10°-20°   | 256.0  | 3.9       |
| 20°-30°   | 378.0  | 5.7       |
| 30°-40°   | 441.0  | 6.7       |
| 40°-50°   | 442.9  | 6.7       |
| 50°-60°   | 388.8  | 5.9       |
| 60°-70°   | 289.6  | 4.4       |
| 70°-80°   | 165.4  | 2.5       |
| 80°-90°   | 49.7   | 0.8       |
| 90°-100°  | 45.4   | 0.7       |
| 100°-110° | 302.3  | 4.6       |
| 110°-120° | 544.3  | 8.2       |
| 120°-130° | 698.7  | 10.6      |
| 130°-140° | 751.4  | 11.4      |
| 140°-150° | 705.3  | 10.7      |
| 150°-160° | 570.5  | 8.6       |
| 160°-170° | 368.9  | 5.6       |
| 170°-180° | 127.2  | 1.9       |
| 0°-30°    | 724.6  | 11.0      |
| 0°-40°    | 1165.6 | 17.6      |
| 0°-60°    | 1997.3 | 30.2      |
| 0°-90°    | 2502.0 | 37.8      |
| 90°-120°  | 892.0  | 13.5      |
| 90°-150°  | 3047.4 | 46.1      |
| 90°-180°  | 4114.0 | 62.2      |
| 0°-180°   | 6616.0 | 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°  | 1    | 9     | 16   | 21    | 24   | 6    |
| 95°  | 57   | 54    | 16   | 21    | 21   | 69   |
| 105° | 292  | 296   | 296  | 296   | 295  | 309  |
| 115° | 548  | 553   | 554  | 550   | 544  | 543  |
| 125° | 779  | 786   | 786  | 782   | 779  | 696  |
| 135° | 972  | 978   | 976  | 974   | 968  | 749  |
| 145° | 1127 | 1129  | 1129 | 1130  | 1124 | 705  |
| 155° | 1241 | 1235  | 1237 | 1240  | 1232 | 572  |
| 165° | 1310 | 1304  | 1304 | 1310  | 1303 | 370  |
| 175° | 1339 | 1333  | 1334 | 1342  | 1333 | 128  |
| 180° | 1339 | 1339  | 1339 | 1339  | 1339 |      |

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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°    | 1.0   | 8.9   | 15.9  | 20.8  | 23.8  |
| 92.5°  | 18.9  | 9.9   | 15.9  | 20.8  | 21.8  |
| 95°    | 56.6  | 53.6  | 15.9  | 20.8  | 20.8  |
| 97.5°  | 106.2 | 112.2 | 17.9  | 19.9  | 20.8  |
| 100°   | 165.8 | 168.8 | 172.7 | 24.8  | 20.8  |
| 102.5° | 226.4 | 230.3 | 232.3 | 234.3 | 150.9 |
| 105°   | 291.9 | 295.9 | 295.9 | 295.9 | 294.9 |
| 107.5° | 359.4 | 359.4 | 361.4 | 362.4 | 358.4 |
| 110°   | 424.9 | 424.9 | 426.9 | 423.9 | 424.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 486.5  | 489.5  | 490.4  | 486.5  | 484.5  |
| 115°   | 548.0  | 553.0  | 554.0  | 550.0  | 544.1  |
| 117.5° | 612.6  | 612.6  | 616.5  | 610.6  | 608.6  |
| 120°   | 672.1  | 671.1  | 674.1  | 672.1  | 667.2  |
| 122.5° | 724.7  | 729.7  | 730.7  | 728.7  | 722.8  |
| 125°   | 779.3  | 786.3  | 786.3  | 782.3  | 779.3  |
| 127.5° | 832.0  | 836.9  | 835.9  | 834.0  | 826.0  |
| 130°   | 879.6  | 884.6  | 885.6  | 882.6  | 877.6  |
| 132.5° | 927.3  | 933.2  | 930.3  | 930.3  | 925.3  |
| 135°   | 972.0  | 977.9  | 975.9  | 973.9  | 968.0  |
| 137.5° | 1013.7 | 1019.6 | 1017.6 | 1017.6 | 1012.7 |
| 140°   | 1054.4 | 1056.3 | 1055.3 | 1057.3 | 1051.4 |
| 142.5° | 1091.1 | 1092.1 | 1094.1 | 1094.1 | 1088.1 |
| 145°   | 1126.8 | 1128.8 | 1128.8 | 1129.8 | 1123.9 |
| 147.5° | 1158.6 | 1158.6 | 1159.6 | 1160.6 | 1153.6 |
| 150°   | 1188.4 | 1186.4 | 1188.4 | 1190.4 | 1182.4 |
| 152.5° | 1217.2 | 1212.2 | 1214.2 | 1216.2 | 1209.2 |
| 155°   | 1241.0 | 1235.0 | 1237.0 | 1240.0 | 1232.1 |
| 157.5° | 1259.9 | 1256.9 | 1256.9 | 1259.9 | 1251.9 |
| 160°   | 1279.7 | 1273.8 | 1274.8 | 1278.7 | 1270.8 |
| 162.5° | 1295.6 | 1289.6 | 1290.6 | 1296.6 | 1287.7 |
| 165°   | 1309.5 | 1303.5 | 1304.5 | 1310.5 | 1302.6 |
| 167.5° | 1320.4 | 1314.5 | 1315.5 | 1322.4 | 1313.5 |
| 170°   | 1329.4 | 1322.4 | 1323.4 | 1331.3 | 1322.4 |
| 172.5° | 1335.3 | 1328.4 | 1330.4 | 1337.3 | 1328.4 |
| 175°   | 1339.3 | 1333.3 | 1334.3 | 1342.3 | 1333.3 |
| 177.5° | 1342.3 | 1336.3 | 1337.3 | 1344.3 | 1336.3 |
| 180°   | 1339.3 | 1339.3 | 1339.3 | 1339.3 | 1339.3 |

(END OF REPORT)