

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: P1025744

Luminaire Tested: S124DIP-B795D1035UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025744  
REPORT IS A COMBINATION OF REPORTS P996374 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B795D1035UB50-4F0-XX-W2A-D1  
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

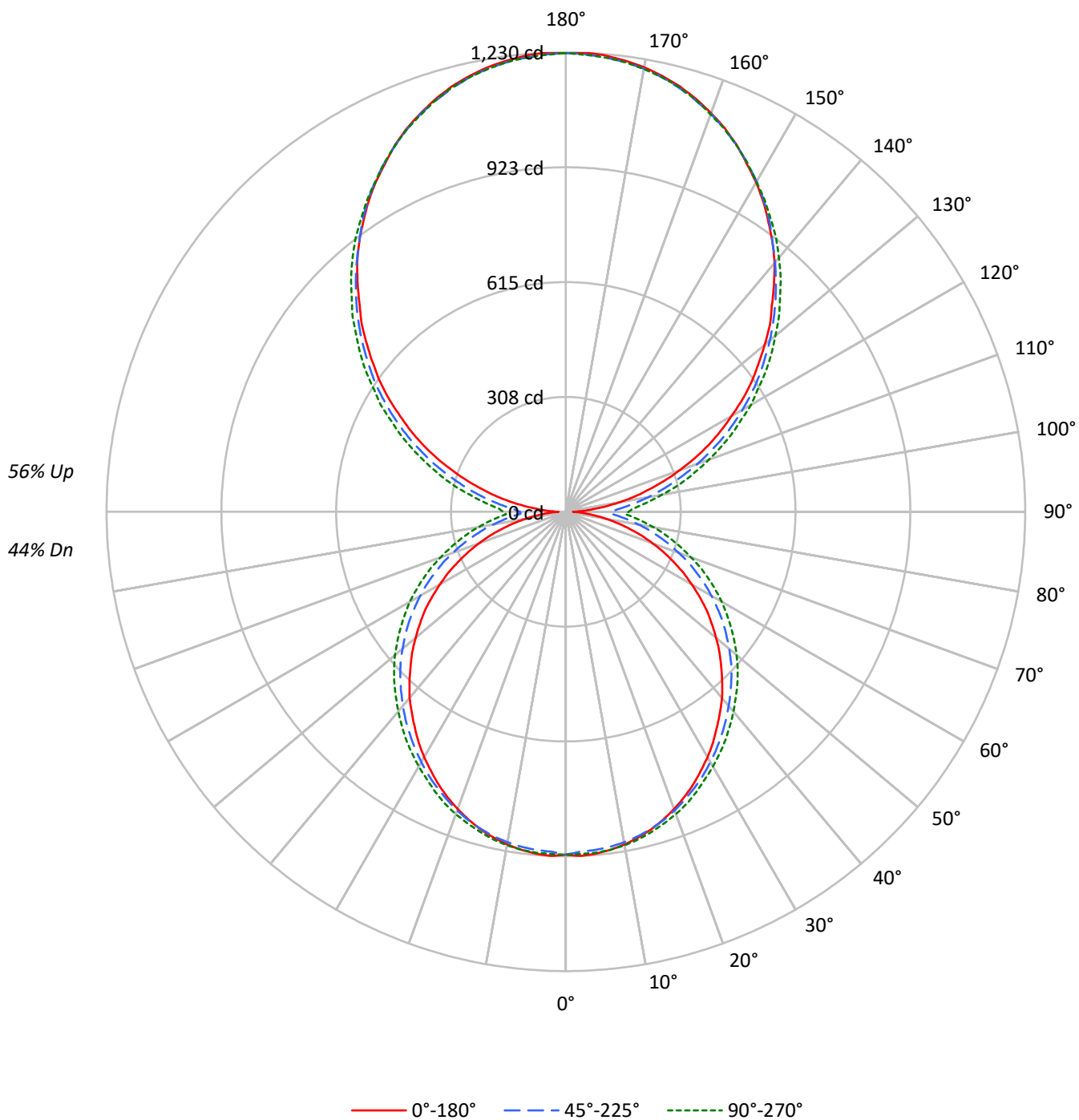
Lumens per Lamp: N/A  
Luminaire Lumens: 6541.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 64.4  
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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 |
| 1   | 96  | 91  | 87  | 83  | 87 | 83 | 80 | 76 | 69 | 66 | 64 | 56 | 54 | 52 | 44 | 42 | 41 |
| 2   | 87  | 79  | 72  | 67  | 79 | 72 | 67 | 62 | 60 | 56 | 52 | 48 | 45 | 43 | 38 | 36 | 34 |
| 3   | 79  | 69  | 61  | 55  | 72 | 63 | 57 | 51 | 52 | 47 | 43 | 42 | 39 | 36 | 33 | 31 | 28 |
| 4   | 72  | 61  | 53  | 46  | 65 | 56 | 49 | 43 | 46 | 41 | 37 | 38 | 34 | 30 | 29 | 27 | 24 |
| 5   | 66  | 54  | 46  | 40  | 60 | 50 | 42 | 37 | 41 | 36 | 31 | 34 | 29 | 26 | 26 | 23 | 21 |
| 6   | 61  | 48  | 40  | 34  | 55 | 44 | 37 | 32 | 37 | 31 | 27 | 30 | 26 | 23 | 24 | 21 | 18 |
| 7   | 56  | 43  | 35  | 30  | 51 | 40 | 33 | 28 | 34 | 28 | 24 | 27 | 23 | 20 | 22 | 19 | 16 |
| 8   | 52  | 39  | 32  | 26  | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 14 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 22 | 28 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 |
| 10  | 45  | 33  | 26  | 21  | 41 | 30 | 24 | 19 | 26 | 20 | 17 | 21 | 17 | 14 | 17 | 14 | 12 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7486 | 7486 | 7486 |
| 5°  | 7507 | 7291 | 7304 |
| 10° | 7458 | 7147 | 7127 |
| 15° | 7388 | 6986 | 6927 |
| 20° | 7285 | 6812 | 6733 |
| 25° | 7168 | 6619 | 6524 |
| 30° | 7042 | 6428 | 6311 |
| 35° | 6899 | 6234 | 6121 |
| 40° | 6785 | 6046 | 5924 |
| 45° | 6616 | 5870 | 5750 |
| 50° | 6471 | 5671 | 5567 |
| 55° | 6323 | 5478 | 5355 |
| 60° | 6090 | 5239 | 5157 |
| 65° | 5836 | 4980 | 4918 |
| 70° | 5528 | 4686 | 4641 |
| 75° | 5095 | 4357 | 4378 |
| 80° | 4611 | 4024 | 4103 |
| 85° | 3966 | 3687 | 3878 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6616 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.0   | 1.3       |
| 10°-20°   | 249.2  | 3.8       |
| 20°-30°   | 376.8  | 5.8       |
| 30°-40°   | 455.9  | 7.0       |
| 40°-50°   | 482.0  | 7.4       |
| 50°-60°   | 453.6  | 6.9       |
| 60°-70°   | 376.4  | 5.8       |
| 70°-80°   | 264.1  | 4.0       |
| 80°-90°   | 151.5  | 2.3       |
| 90°-100°  | 168.7  | 2.6       |
| 100°-110° | 305.5  | 4.7       |
| 110°-120° | 451.5  | 6.9       |
| 120°-130° | 562.1  | 8.6       |
| 130°-140° | 614.2  | 9.4       |
| 140°-150° | 595.3  | 9.1       |
| 150°-160° | 498.9  | 7.6       |
| 160°-170° | 332.0  | 5.1       |
| 170°-180° | 116.2  | 1.8       |
| 0°-30°    | 713.1  | 10.9      |
| 0°-40°    | 1169.0 | 17.9      |
| 0°-60°    | 2104.5 | 32.2      |
| 0°-90°    | 2896.6 | 44.3      |
| 90°-120°  | 925.7  | 14.2      |
| 90°-150°  | 2697.3 | 41.2      |
| 90°-180°  | 3644.0 | 55.7      |
| 0°-180°   | 6541.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 918  | 918   | 918  | 918   | 918  |      |
| 5°   | 919  | 916   | 909  | 917   | 916  | 87   |
| 15°  | 881  | 882   | 879  | 888   | 887  | 248  |
| 25°  | 806  | 812   | 815  | 827   | 828  | 371  |
| 35°  | 705  | 718   | 728  | 742   | 745  | 442  |
| 45°  | 588  | 608   | 627  | 645   | 650  | 454  |
| 55°  | 461  | 482   | 513  | 534   | 540  | 410  |
| 65°  | 319  | 352   | 386  | 412   | 420  | 316  |
| 75°  | 177  | 215   | 258  | 287   | 296  | 188  |
| 85°  | 54   | 98    | 144  | 175   | 185  | 57   |
| 90°  | 19   | 71    | 123  | 158   | 168  | 15   |
| 95°  | 70   | 113   | 162  | 192   | 202  | 72   |
| 105° | 231  | 252   | 294  | 323   | 334  | 245  |
| 115° | 420  | 430   | 461  | 482   | 488  | 415  |
| 125° | 607  | 606   | 631  | 649   | 653  | 542  |
| 135° | 780  | 786   | 793  | 808   | 811  | 604  |
| 145° | 946  | 949   | 950  | 955   | 956  | 592  |
| 155° | 1083 | 1083  | 1082 | 1086  | 1082 | 498  |
| 165° | 1179 | 1176  | 1174 | 1180  | 1176 | 332  |
| 175° | 1226 | 1222  | 1221 | 1228  | 1221 | 116  |
| 180° | 1228 | 1228  | 1228 | 1228  | 1228 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 918.0 | 918.0 | 918.0 | 918.0 | 918.0 |
| 2.5°   | 922.2 | 919.1 | 910.9 | 918.0 | 917.0 |
| 5°     | 919.1 | 916.0 | 908.8 | 917.0 | 916.0 |
| 7.5°   | 912.9 | 910.9 | 904.7 | 913.9 | 912.9 |
| 10°    | 904.7 | 903.7 | 898.5 | 907.8 | 906.7 |
| 12.5°  | 893.4 | 893.4 | 890.3 | 898.5 | 898.5 |
| 15°    | 881.0 | 882.1 | 879.0 | 888.2 | 887.2 |
| 17.5°  | 864.6 | 867.7 | 866.6 | 875.9 | 874.9 |
| 20°    | 847.1 | 850.2 | 851.2 | 861.5 | 861.5 |
| 22.5°  | 827.6 | 831.7 | 833.7 | 844.0 | 846.1 |
| 25°    | 806.0 | 812.2 | 815.2 | 826.6 | 827.6 |
| 27.5°  | 782.3 | 791.6 | 795.7 | 806.0 | 807.0 |
| 30°    | 758.7 | 766.9 | 774.1 | 785.4 | 787.5 |
| 32.5°  | 733.0 | 743.3 | 751.5 | 764.9 | 766.9 |
| 35°    | 705.2 | 717.6 | 727.9 | 742.3 | 745.3 |
| 37.5°  | 677.5 | 691.9 | 704.2 | 718.6 | 721.7 |
| 40°    | 650.8 | 664.1 | 678.5 | 693.9 | 698.0 |
| 42.5°  | 619.9 | 635.3 | 652.8 | 670.3 | 673.4 |
| 45°    | 588.0 | 607.6 | 627.1 | 644.6 | 649.7 |
| 47.5°  | 558.2 | 577.8 | 600.4 | 617.9 | 624.0 |
| 50°    | 525.3 | 547.9 | 570.6 | 591.1 | 597.3 |
| 52.5°  | 492.4 | 515.1 | 541.8 | 562.3 | 568.5 |
| 55°    | 460.6 | 482.2 | 513.0 | 533.6 | 539.7 |
| 57.5°  | 424.6 | 451.3 | 481.1 | 505.8 | 510.9 |
| 60°    | 389.6 | 416.4 | 450.3 | 473.9 | 482.2 |
| 62.5°  | 355.7 | 385.5 | 419.4 | 443.1 | 451.3 |
| 65°    | 318.7 | 351.6 | 386.5 | 412.2 | 420.5 |
| 67.5°  | 283.7 | 318.7 | 355.7 | 381.4 | 389.6 |
| 70°    | 247.8 | 282.7 | 321.8 | 349.5 | 356.7 |
| 72.5°  | 212.8 | 248.8 | 290.9 | 317.7 | 325.9 |
| 75°    | 176.8 | 214.9 | 258.0 | 286.8 | 296.1 |
| 77.5°  | 142.9 | 183.0 | 228.2 | 257.0 | 267.3 |
| 80°    | 112.1 | 153.2 | 198.4 | 229.3 | 237.5 |
| 82.5°  | 81.2  | 124.4 | 169.6 | 201.5 | 210.7 |
| 85°    | 54.5  | 97.7  | 143.9 | 174.8 | 185.0 |
| 87.5°  | 33.9  | 76.1  | 121.3 | 151.1 | 160.4 |
| 90°    | 19.3  | 70.9  | 122.7 | 158.2 | 168.3 |
| 92.5°  | 40.1  | 88.5  | 137.4 | 169.1 | 178.2 |
| 95°    | 70.4  | 112.9 | 161.6 | 192.3 | 201.5 |
| 97.5°  | 103.5 | 140.9 | 190.7 | 221.2 | 230.5 |
| 100°   | 144.3 | 174.8 | 223.5 | 253.2 | 260.4 |
| 102.5° | 188.0 | 211.6 | 258.3 | 287.8 | 297.0 |
| 105°   | 230.7 | 252.1 | 294.0 | 322.6 | 333.6 |
| 107.5° | 277.2 | 295.6 | 332.5 | 362.0 | 368.3 |
| 110°   | 323.6 | 339.9 | 375.0 | 396.7 | 407.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 372.0  | 384.3  | 416.4  | 439.0  | 447.2  |
| 115°   | 420.4  | 429.6  | 460.6  | 482.3  | 488.5  |
| 117.5° | 467.0  | 473.1  | 503.0  | 521.8  | 527.1  |
| 120°   | 512.4  | 519.3  | 546.3  | 562.1  | 572.2  |
| 122.5° | 560.9  | 561.8  | 588.7  | 606.4  | 608.9  |
| 125°   | 607.4  | 606.4  | 631.1  | 648.7  | 653.0  |
| 127.5° | 650.1  | 652.0  | 670.6  | 687.2  | 693.4  |
| 130°   | 694.7  | 696.6  | 713.0  | 729.6  | 732.0  |
| 132.5° | 741.3  | 742.2  | 753.5  | 769.1  | 774.3  |
| 135°   | 780.2  | 785.9  | 793.1  | 807.6  | 810.9  |
| 137.5° | 824.8  | 826.6  | 832.6  | 845.2  | 851.3  |
| 140°   | 869.5  | 870.3  | 871.4  | 883.7  | 888.0  |
| 142.5° | 909.2  | 911.1  | 909.2  | 920.5  | 924.6  |
| 145°   | 946.3  | 949.1  | 950.0  | 955.3  | 956.5  |
| 147.5° | 984.3  | 988.0  | 987.1  | 987.1  | 990.3  |
| 150°   | 1018.5 | 1021.3 | 1021.3 | 1021.3 | 1020.3 |
| 152.5° | 1049.8 | 1051.7 | 1052.6 | 1055.5 | 1052.6 |
| 155°   | 1083.0 | 1083.0 | 1082.1 | 1085.9 | 1082.1 |
| 157.5° | 1111.6 | 1109.7 | 1109.7 | 1112.5 | 1109.7 |
| 160°   | 1136.3 | 1135.3 | 1134.4 | 1137.2 | 1132.5 |
| 162.5° | 1159.1 | 1156.2 | 1155.3 | 1161.0 | 1156.2 |
| 165°   | 1179.0 | 1176.2 | 1174.3 | 1180.0 | 1176.2 |
| 167.5° | 1195.2 | 1191.4 | 1191.4 | 1197.1 | 1191.4 |
| 170°   | 1208.5 | 1203.7 | 1204.7 | 1210.4 | 1203.7 |
| 172.5° | 1218.0 | 1214.2 | 1214.2 | 1220.8 | 1214.2 |
| 175°   | 1226.5 | 1221.8 | 1220.8 | 1227.5 | 1220.8 |
| 177.5° | 1230.3 | 1225.6 | 1225.6 | 1232.2 | 1224.6 |
| 180°   | 1228.4 | 1228.4 | 1228.4 | 1228.4 | 1228.4 |

(END OF REPORT)