

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: P1025736

Luminaire Tested: S124DIP-B795D1035UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025736  
REPORT IS A COMBINATION OF REPORTS P996366 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B795D1035UB40-4F0-XX-W2A-D4  
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

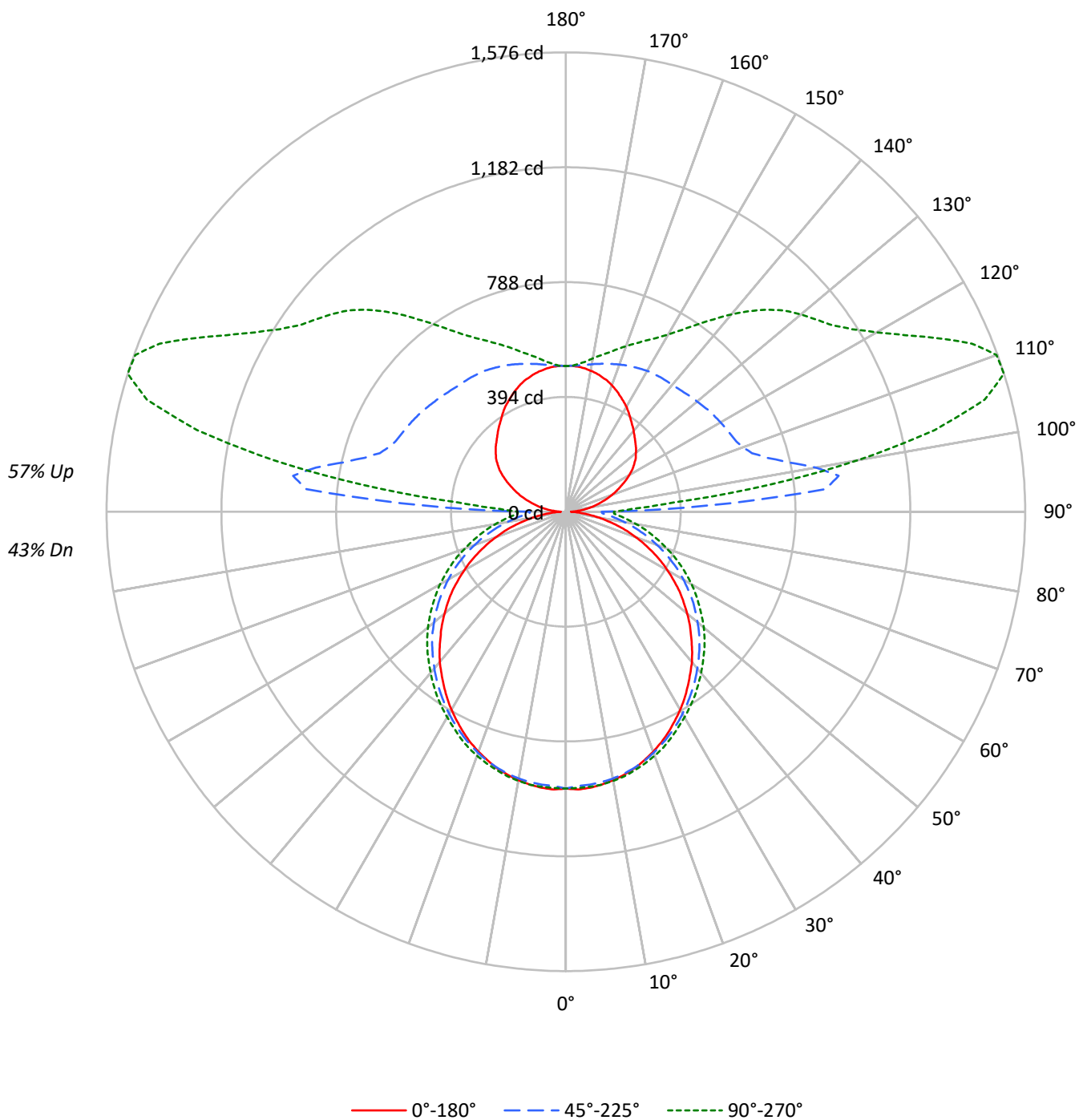
Lumens per Lamp: N/A  
Luminaire Lumens: 6889.3 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 | 64 | 64 | 64 | 50 | 50 | 50 |
| 1   | 95  | 91  | 87  | 83  | 87 | 83 | 79 | 76 | 69 | 66 | 64 | 55 | 53 | 52 | 43 | 42 | 41 |
| 2   | 87  | 79  | 72  | 67  | 79 | 72 | 66 | 62 | 59 | 55 | 52 | 48 | 45 | 42 | 37 | 35 | 33 |
| 3   | 79  | 69  | 61  | 55  | 71 | 63 | 56 | 51 | 52 | 47 | 43 | 42 | 38 | 35 | 33 | 30 | 28 |
| 4   | 72  | 61  | 53  | 46  | 65 | 56 | 49 | 43 | 46 | 41 | 36 | 37 | 33 | 30 | 29 | 26 | 24 |
| 5   | 66  | 54  | 46  | 39  | 60 | 49 | 42 | 37 | 41 | 35 | 31 | 33 | 29 | 26 | 26 | 23 | 21 |
| 6   | 60  | 48  | 40  | 34  | 55 | 44 | 37 | 32 | 37 | 31 | 27 | 30 | 26 | 22 | 23 | 20 | 18 |
| 7   | 56  | 43  | 35  | 30  | 51 | 40 | 33 | 28 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 |
| 8   | 52  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 14 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 22 | 28 | 22 | 19 | 23 | 19 | 16 | 18 | 15 | 13 |
| 10  | 45  | 33  | 25  | 21  | 41 | 30 | 24 | 19 | 25 | 20 | 17 | 21 | 17 | 14 | 17 | 14 | 12 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7742 | 7742 | 7742 |
| 5°  | 7763 | 7541 | 7554 |
| 10° | 7713 | 7392 | 7371 |
| 15° | 7641 | 7225 | 7164 |
| 20° | 7534 | 7044 | 6964 |
| 25° | 7413 | 6845 | 6747 |
| 30° | 7283 | 6648 | 6527 |
| 35° | 7136 | 6446 | 6330 |
| 40° | 7017 | 6253 | 6127 |
| 45° | 6842 | 6071 | 5947 |
| 50° | 6693 | 5865 | 5757 |
| 55° | 6538 | 5665 | 5539 |
| 60° | 6300 | 5418 | 5333 |
| 65° | 6036 | 5152 | 5085 |
| 70° | 5716 | 4846 | 4799 |
| 75° | 5271 | 4507 | 4527 |
| 80° | 4767 | 4162 | 4242 |
| 85° | 4097 | 3813 | 4012 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6842 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.0   | 1.3       |
| 10°-20°   | 257.7  | 3.7       |
| 20°-30°   | 389.7  | 5.7       |
| 30°-40°   | 471.5  | 6.8       |
| 40°-50°   | 498.4  | 7.2       |
| 50°-60°   | 469.1  | 6.8       |
| 60°-70°   | 389.3  | 5.7       |
| 70°-80°   | 273.2  | 4.0       |
| 80°-90°   | 155.9  | 2.3       |
| 90°-100°  | 463.2  | 6.7       |
| 100°-110° | 823.6  | 12.0      |
| 110°-120° | 719.2  | 10.4      |
| 120°-130° | 591.5  | 8.6       |
| 130°-140° | 483.2  | 7.0       |
| 140°-150° | 362.8  | 5.3       |
| 150°-160° | 253.5  | 3.7       |
| 160°-170° | 149.1  | 2.2       |
| 170°-180° | 48.5   | 0.7       |
| 0°-30°    | 737.4  | 10.7      |
| 0°-40°    | 1208.9 | 17.5      |
| 0°-60°    | 2176.5 | 31.6      |
| 0°-90°    | 2994.8 | 43.5      |
| 90°-120°  | 2006.0 | 29.1      |
| 90°-150°  | 3443.5 | 50.0      |
| 90°-180°  | 3895.0 | 56.5      |
| 0°-180°   | 6889.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 949 | 949   | 949 | 949   | 949  |      |
| 5°   | 950 | 947   | 940 | 948   | 947  | 90   |
| 15°  | 911 | 912   | 909 | 919   | 918  | 257  |
| 25°  | 834 | 840   | 843 | 855   | 856  | 384  |
| 35°  | 729 | 742   | 753 | 768   | 771  | 457  |
| 45°  | 608 | 628   | 648 | 667   | 672  | 470  |
| 55°  | 476 | 499   | 530 | 552   | 558  | 424  |
| 65°  | 330 | 364   | 400 | 426   | 435  | 327  |
| 75°  | 183 | 222   | 267 | 297   | 306  | 194  |
| 85°  | 56  | 101   | 149 | 181   | 191  | 59   |
| 90°  | 18  | 67    | 123 | 156   | 165  | 14   |
| 95°  | 46  | 151   | 893 | 518   | 371  | 47   |
| 105° | 125 | 197   | 715 | 1485  | 1488 | 133  |
| 115° | 209 | 270   | 625 | 1178  | 1408 | 208  |
| 125° | 286 | 338   | 602 | 990   | 1116 | 255  |
| 135° | 337 | 401   | 577 | 861   | 980  | 261  |
| 145° | 387 | 442   | 564 | 710   | 784  | 243  |
| 155° | 439 | 474   | 548 | 621   | 648  | 203  |
| 165° | 479 | 493   | 526 | 557   | 565  | 135  |
| 175° | 499 | 500   | 504 | 511   | 509  | 47   |
| 180° | 500 | 500   | 500 | 500   | 500  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 0°     | 949.4 | 949.4 | 949.4 | 949.4  | 949.4  |
| 2.5°   | 953.7 | 950.5 | 942.0 | 949.4  | 948.4  |
| 5°     | 950.5 | 947.3 | 939.9 | 948.4  | 947.3  |
| 7.5°   | 944.1 | 942.0 | 935.6 | 945.2  | 944.1  |
| 10°    | 935.6 | 934.5 | 929.2 | 938.8  | 937.7  |
| 12.5°  | 923.9 | 923.9 | 920.7 | 929.2  | 929.2  |
| 15°    | 911.2 | 912.2 | 909.0 | 918.6  | 917.5  |
| 17.5°  | 894.1 | 897.3 | 896.3 | 905.8  | 904.8  |
| 20°    | 876.1 | 879.3 | 880.3 | 891.0  | 891.0  |
| 22.5°  | 855.9 | 860.1 | 862.2 | 872.9  | 875.0  |
| 25°    | 833.5 | 839.9 | 843.1 | 854.8  | 855.9  |
| 27.5°  | 809.1 | 818.7 | 822.9 | 833.5  | 834.6  |
| 30°    | 784.6 | 793.1 | 800.6 | 812.3  | 814.4  |
| 32.5°  | 758.1 | 768.7 | 777.2 | 791.0  | 793.1  |
| 35°    | 729.4 | 742.1 | 752.7 | 767.6  | 770.8  |
| 37.5°  | 700.6 | 715.5 | 728.3 | 743.2  | 746.4  |
| 40°    | 673.0 | 686.8 | 701.7 | 717.7  | 721.9  |
| 42.5°  | 641.1 | 657.1 | 675.1 | 693.2  | 696.4  |
| 45°    | 608.1 | 628.3 | 648.5 | 666.6  | 671.9  |
| 47.5°  | 577.3 | 597.5 | 620.9 | 639.0  | 645.4  |
| 50°    | 543.3 | 566.7 | 590.1 | 611.3  | 617.7  |
| 52.5°  | 509.3 | 532.7 | 560.3 | 581.6  | 587.9  |
| 55°    | 476.3 | 498.6 | 530.5 | 551.8  | 558.2  |
| 57.5°  | 439.1 | 466.7 | 497.6 | 523.1  | 528.4  |
| 60°    | 403.0 | 430.6 | 465.7 | 490.1  | 498.6  |
| 62.5°  | 367.9 | 398.7 | 433.8 | 458.2  | 466.7  |
| 65°    | 329.6 | 363.6 | 399.8 | 426.3  | 434.8  |
| 67.5°  | 293.4 | 329.6 | 367.9 | 394.4  | 403.0  |
| 70°    | 256.2 | 292.4 | 332.8 | 361.5  | 368.9  |
| 72.5°  | 220.1 | 257.3 | 300.9 | 328.5  | 337.0  |
| 75°    | 182.9 | 222.2 | 266.9 | 296.6  | 306.2  |
| 77.5°  | 147.8 | 189.2 | 236.0 | 265.8  | 276.4  |
| 80°    | 115.9 | 158.4 | 205.2 | 237.1  | 245.6  |
| 82.5°  | 84.0  | 128.6 | 175.4 | 208.4  | 218.0  |
| 85°    | 56.3  | 101.0 | 148.8 | 180.7  | 191.4  |
| 87.5°  | 35.1  | 78.7  | 125.5 | 156.3  | 165.9  |
| 90°    | 18.0  | 67.4  | 123.0 | 155.8  | 165.2  |
| 92.5°  | 29.7  | 128.9 | 484.1 | 255.8  | 226.6  |
| 95°    | 46.2  | 151.1 | 893.4 | 517.8  | 370.6  |
| 97.5°  | 66.8  | 156.6 | 944.1 | 924.6  | 700.3  |
| 100°   | 86.4  | 167.0 | 870.9 | 1229.8 | 1018.1 |
| 102.5° | 106.0 | 180.5 | 782.1 | 1417.9 | 1295.8 |
| 105°   | 124.6 | 197.4 | 714.8 | 1484.9 | 1488.0 |
| 107.5° | 147.2 | 215.8 | 669.3 | 1457.4 | 1575.9 |
| 110°   | 168.7 | 233.2 | 646.3 | 1372.4 | 1572.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 189.2 | 251.6 | 632.1 | 1269.8 | 1508.2 |
| 115°   | 208.8 | 270.0 | 624.9 | 1178.0 | 1408.4 |
| 117.5° | 230.5 | 288.0 | 618.6 | 1103.8 | 1311.7 |
| 120°   | 251.0 | 304.2 | 613.2 | 1051.6 | 1230.6 |
| 122.5° | 270.6 | 321.2 | 606.9 | 1016.4 | 1165.3 |
| 125°   | 286.3 | 338.3 | 601.7 | 990.0  | 1115.6 |
| 127.5° | 302.1 | 356.0 | 594.5 | 963.4  | 1082.8 |
| 130°   | 313.7 | 372.0 | 588.1 | 934.0  | 1052.9 |
| 132.5° | 326.5 | 386.8 | 582.9 | 900.2  | 1021.0 |
| 135°   | 337.2 | 401.1 | 576.6 | 860.9  | 980.3  |
| 137.5° | 349.0 | 412.4 | 572.3 | 820.2  | 933.6  |
| 140°   | 361.8 | 423.7 | 568.1 | 780.4  | 884.1  |
| 142.5° | 374.5 | 434.0 | 566.0 | 744.3  | 831.5  |
| 145°   | 387.3 | 442.2 | 564.1 | 710.0  | 784.0  |
| 147.5° | 402.0 | 451.0 | 561.1 | 680.6  | 739.4  |
| 150°   | 415.8 | 459.4 | 558.2 | 657.4  | 701.6  |
| 152.5° | 427.5 | 467.2 | 553.3 | 638.8  | 672.2  |
| 155°   | 439.3 | 474.2 | 548.3 | 621.1  | 647.6  |
| 157.5° | 451.1 | 480.5 | 543.4 | 604.3  | 625.0  |
| 160°   | 461.9 | 485.9 | 537.5 | 587.7  | 604.4  |
| 162.5° | 471.7 | 490.4 | 531.6 | 571.4  | 584.7  |
| 165°   | 478.6 | 493.4 | 525.7 | 556.7  | 565.1  |
| 167.5° | 486.4 | 495.8 | 519.8 | 543.9  | 549.3  |
| 170°   | 491.3 | 497.8 | 514.0 | 531.2  | 534.6  |
| 172.5° | 496.3 | 499.2 | 508.1 | 519.8  | 519.8  |
| 175°   | 499.2 | 500.2 | 504.1 | 511.0  | 509.0  |
| 177.5° | 501.2 | 500.2 | 501.2 | 504.6  | 501.2  |
| 180°   | 500.2 | 500.2 | 500.2 | 500.2  | 500.2  |

(END OF REPORT)