

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: P1001813

Luminaire Tested: SA4XXDIP-B795D1205UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1001813  
REPORT IS A COMBINATION OF REPORTS P996435 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-B795D1205UB50-4F0-XX-W2A-D4  
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

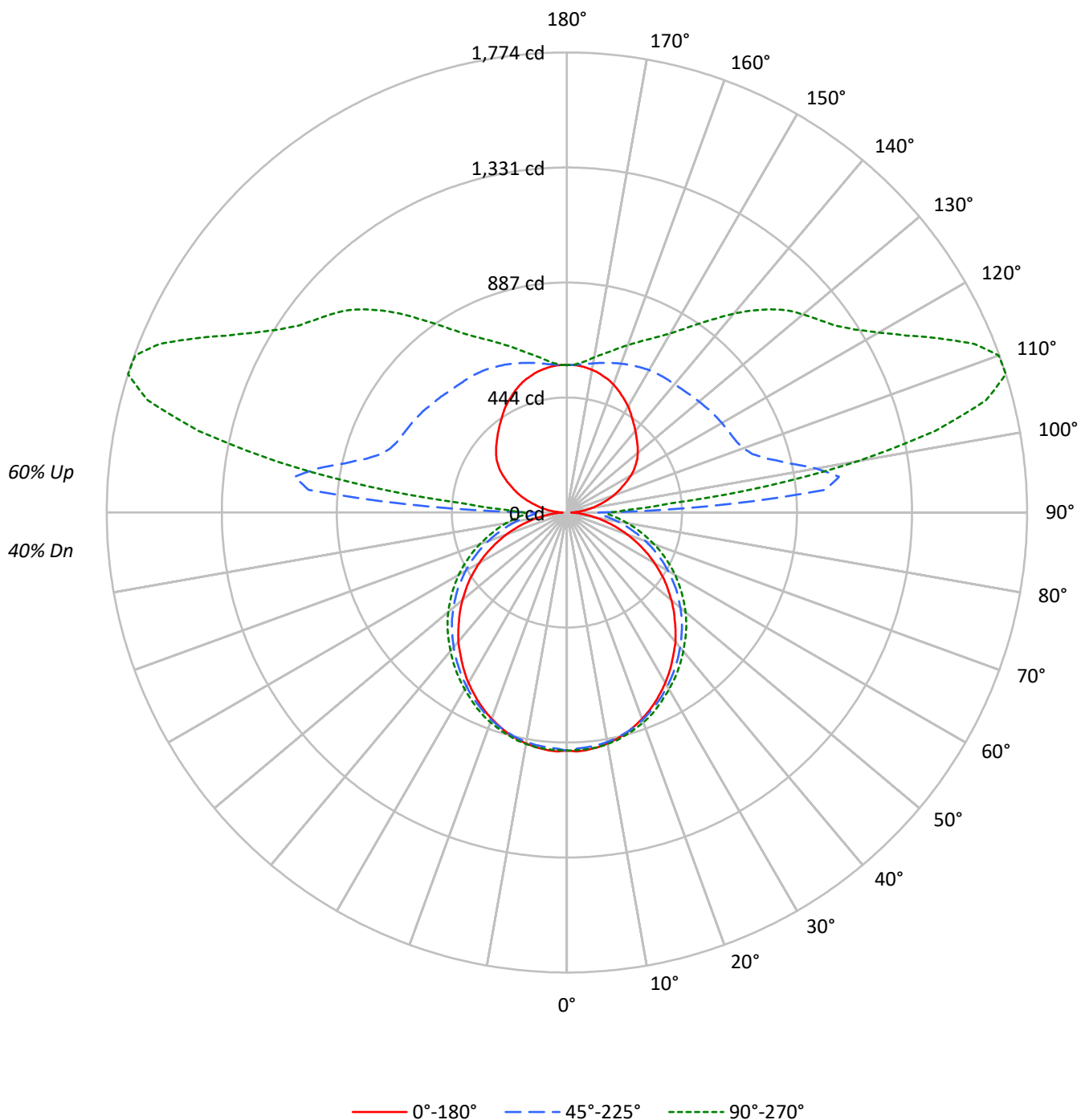
Lumens per Lamp: N/A  
Luminaire Lumens: 7280.3 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 70.9  
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   | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 |
| 1   | 95  | 90  | 86  | 82  | 86 | 82 | 78 | 75 | 67 | 64 | 62 | 53 | 51 | 50 | 40 | 39 | 38 |
| 2   | 86  | 78  | 72  | 66  | 78 | 71 | 66 | 61 | 58 | 54 | 51 | 46 | 43 | 41 | 35 | 33 | 31 |
| 3   | 78  | 68  | 61  | 55  | 71 | 62 | 56 | 51 | 51 | 46 | 42 | 40 | 37 | 34 | 30 | 28 | 26 |
| 4   | 71  | 60  | 52  | 46  | 64 | 55 | 48 | 43 | 45 | 40 | 36 | 36 | 32 | 29 | 27 | 24 | 22 |
| 5   | 65  | 53  | 45  | 39  | 59 | 49 | 42 | 36 | 40 | 35 | 30 | 32 | 28 | 25 | 24 | 21 | 19 |
| 6   | 60  | 48  | 40  | 34  | 54 | 44 | 37 | 31 | 36 | 30 | 26 | 29 | 25 | 22 | 22 | 19 | 17 |
| 7   | 55  | 43  | 35  | 29  | 50 | 39 | 32 | 27 | 32 | 27 | 23 | 26 | 22 | 19 | 20 | 17 | 15 |
| 8   | 51  | 39  | 31  | 26  | 46 | 36 | 29 | 24 | 30 | 24 | 20 | 24 | 20 | 17 | 18 | 15 | 13 |
| 9   | 48  | 35  | 28  | 23  | 43 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 |
| 10  | 44  | 32  | 25  | 20  | 40 | 30 | 23 | 19 | 25 | 20 | 16 | 20 | 16 | 13 | 16 | 13 | 11 |

**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   | 1.2       |
| 10°-20°   | 249.2  | 3.4       |
| 20°-30°   | 376.8  | 5.2       |
| 30°-40°   | 455.9  | 6.3       |
| 40°-50°   | 482.0  | 6.6       |
| 50°-60°   | 453.6  | 6.2       |
| 60°-70°   | 376.4  | 5.2       |
| 70°-80°   | 264.1  | 3.6       |
| 80°-90°   | 151.1  | 2.1       |
| 90°-100°  | 510.9  | 7.0       |
| 100°-110° | 924.4  | 12.7      |
| 110°-120° | 809.5  | 11.1      |
| 120°-130° | 667.8  | 9.2       |
| 130°-140° | 547.3  | 7.5       |
| 140°-150° | 411.9  | 5.7       |
| 150°-160° | 288.0  | 4.0       |
| 160°-170° | 169.4  | 2.3       |
| 170°-180° | 55.1   | 0.8       |
| 0°-30°    | 713.1  | 9.8       |
| 0°-40°    | 1169.0 | 16.1      |
| 0°-60°    | 2104.5 | 28.9      |
| 0°-90°    | 2896.1 | 39.8      |
| 90°-120°  | 2244.7 | 30.8      |
| 90°-150°  | 3871.6 | 53.2      |
| 90°-180°  | 4384.0 | 60.2      |
| 0°-180°   | 7280.3 | 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°  | 18  | 66    | 122  | 154   | 163  | 14   |
| 95°  | 50  | 163   | 1000 | 568   | 399  | 51   |
| 105° | 140 | 219   | 800  | 1671  | 1673 | 150  |
| 115° | 236 | 304   | 702  | 1326  | 1587 | 235  |
| 125° | 325 | 384   | 679  | 1116  | 1258 | 290  |
| 135° | 383 | 456   | 654  | 974   | 1108 | 296  |
| 145° | 440 | 502   | 641  | 806   | 889  | 276  |
| 155° | 499 | 539   | 623  | 706   | 736  | 230  |
| 165° | 544 | 561   | 597  | 633   | 642  | 154  |
| 175° | 567 | 568   | 573  | 581   | 578  | 54   |
| 180° | 568 | 568   | 568  | 568   | 568  |      |

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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°    | 17.5  | 66.5  | 121.9  | 153.9  | 163.3  |
| 92.5°  | 31.0  | 137.4 | 533.3  | 269.0  | 234.2  |
| 95°    | 50.3  | 163.4 | 999.5  | 567.8  | 398.9  |
| 97.5°  | 73.7  | 170.5 | 1058.1 | 1031.2 | 774.7  |
| 100°   | 96.2  | 183.2 | 975.9  | 1378.9 | 1137.1 |
| 102.5° | 118.5 | 199.2 | 875.9  | 1593.9 | 1453.5 |
| 105°   | 140.0 | 219.1 | 800.4  | 1670.9 | 1673.0 |
| 107.5° | 165.6 | 240.6 | 749.5  | 1640.6 | 1774.0 |
| 110°   | 190.2 | 261.0 | 724.1  | 1545.0 | 1771.1 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 213.8 | 282.5 | 709.0 | 1429.5 | 1699.0 |
| 115°   | 236.2 | 304.0 | 701.6 | 1326.1 | 1586.7 |
| 117.5° | 260.8 | 325.0 | 695.3 | 1242.9 | 1477.8 |
| 120°   | 284.3 | 344.3 | 690.1 | 1184.8 | 1386.7 |
| 122.5° | 306.6 | 364.1 | 683.9 | 1145.6 | 1313.6 |
| 125°   | 324.6 | 383.9 | 678.7 | 1116.4 | 1258.3 |
| 127.5° | 342.5 | 404.0 | 671.3 | 1087.4 | 1221.8 |
| 130°   | 356.0 | 422.5 | 665.1 | 1054.9 | 1188.9 |
| 132.5° | 370.5 | 439.3 | 659.8 | 1017.4 | 1153.6 |
| 135°   | 382.9 | 455.5 | 653.6 | 973.8  | 1108.4 |
| 137.5° | 396.3 | 468.4 | 649.4 | 928.5  | 1056.4 |
| 140°   | 410.8 | 481.2 | 645.3 | 884.2  | 1001.1 |
| 142.5° | 425.3 | 492.9 | 643.2 | 843.8  | 942.3  |
| 145°   | 439.9 | 502.5 | 641.0 | 805.8  | 889.1  |
| 147.5° | 456.6 | 512.6 | 637.6 | 773.2  | 839.3  |
| 150°   | 472.2 | 522.0 | 634.3 | 747.0  | 797.3  |
| 152.5° | 485.8 | 531.0 | 628.7 | 725.8  | 763.8  |
| 155°   | 499.2 | 538.8 | 623.1 | 705.7  | 735.9  |
| 157.5° | 512.6 | 546.1 | 617.5 | 686.8  | 710.2  |
| 160°   | 524.8 | 552.2 | 610.8 | 667.8  | 686.8  |
| 162.5° | 536.0 | 557.2 | 604.1 | 649.3  | 664.4  |
| 165°   | 543.8 | 560.6 | 597.4 | 632.6  | 642.1  |
| 167.5° | 552.8 | 563.4 | 590.7 | 618.1  | 624.2  |
| 170°   | 558.3 | 565.6 | 584.0 | 603.6  | 607.5  |
| 172.5° | 563.9 | 567.3 | 577.3 | 590.7  | 590.7  |
| 175°   | 567.3 | 568.4 | 572.9 | 580.7  | 578.4  |
| 177.5° | 569.5 | 568.4 | 569.5 | 573.4  | 569.5  |
| 180°   | 568.4 | 568.4 | 568.4 | 568.4  | 568.4  |

(END OF REPORT)