

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: P1025223

Luminaire Tested: S124DIP-B1195D810UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025223  
REPORT IS A COMBINATION OF REPORTS P995688 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B1195D810UB30-4F0-XX-W2A-D4  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

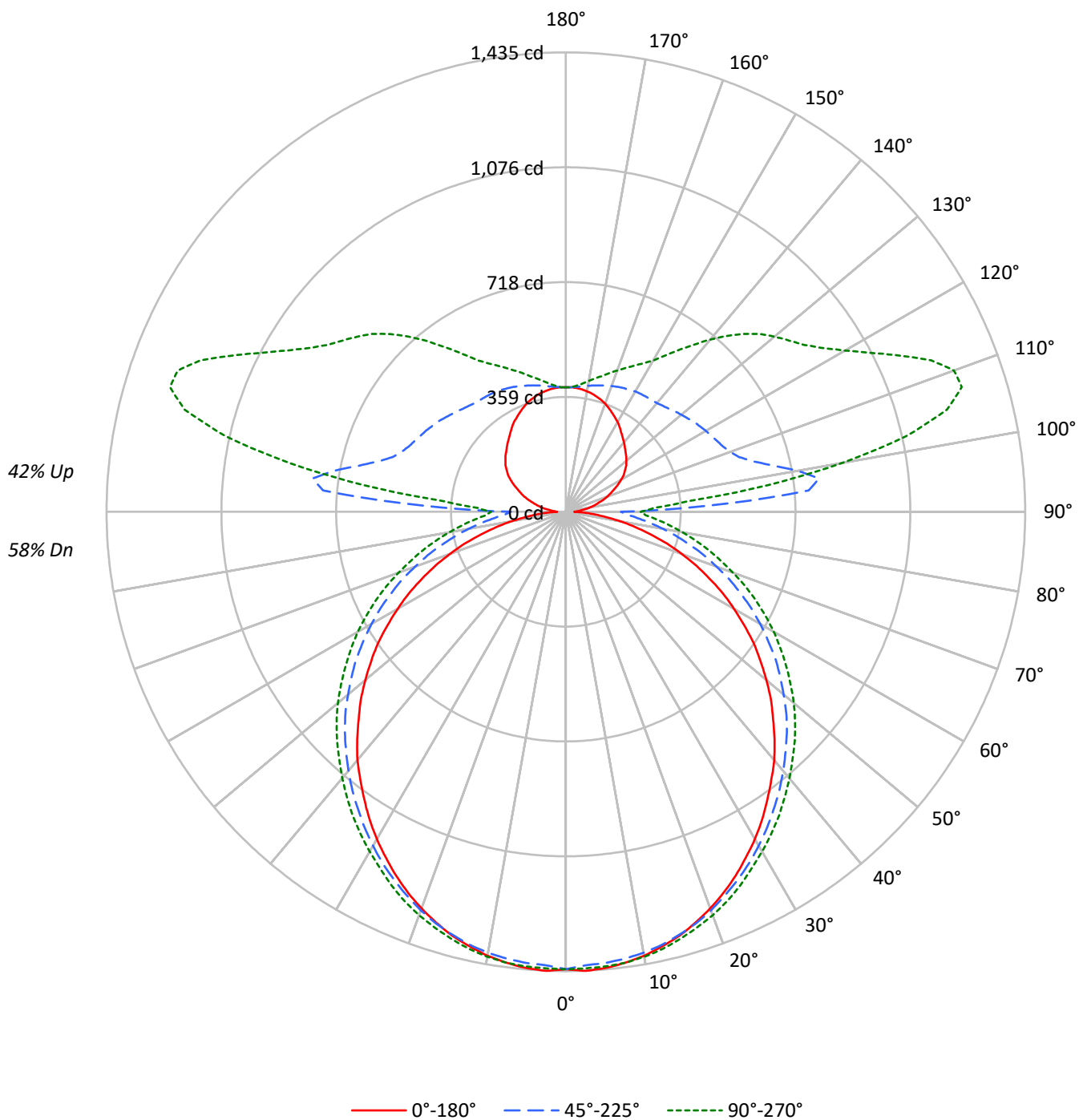
Lumens per Lamp: N/A  
Luminaire Lumens: 7710.6 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 82.4  
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   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 64 | 64 | 64 |
| 1   | 99  | 94  | 89  | 85  | 92  | 87  | 83  | 80  | 75 | 73 | 70 | 65 | 62 | 60 | 55 | 53 | 52 |
| 2   | 89  | 81  | 74  | 69  | 83  | 76  | 70  | 65  | 65 | 61 | 57 | 56 | 53 | 50 | 47 | 45 | 43 |
| 3   | 81  | 71  | 63  | 57  | 75  | 66  | 59  | 53  | 57 | 52 | 47 | 49 | 45 | 41 | 42 | 38 | 36 |
| 4   | 74  | 62  | 54  | 48  | 69  | 58  | 51  | 45  | 51 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 |
| 5   | 68  | 56  | 47  | 41  | 63  | 52  | 44  | 38  | 45 | 39 | 34 | 39 | 34 | 30 | 33 | 29 | 26 |
| 6   | 62  | 50  | 41  | 35  | 58  | 47  | 39  | 33  | 41 | 34 | 30 | 35 | 30 | 26 | 30 | 26 | 23 |
| 7   | 58  | 45  | 36  | 31  | 54  | 42  | 34  | 29  | 37 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 |
| 8   | 54  | 41  | 33  | 27  | 50  | 38  | 31  | 26  | 34 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 |
| 9   | 50  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 |
| 10  | 47  | 34  | 27  | 22  | 43  | 32  | 25  | 21  | 28 | 23 | 19 | 25 | 20 | 17 | 21 | 18 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11653 | 11653 | 11653 |
| 5°  | 11685 | 11349 | 11370 |
| 10° | 11609 | 11126 | 11094 |
| 15° | 11501 | 10875 | 10783 |
| 20° | 11339 | 10603 | 10481 |
| 25° | 11158 | 10303 | 10156 |
| 30° | 10962 | 10006 | 9823  |
| 35° | 10739 | 9702  | 9528  |
| 40° | 10561 | 9411  | 9221  |
| 45° | 10298 | 9137  | 8950  |
| 50° | 10073 | 8827  | 8665  |
| 55° | 9841  | 8527  | 8336  |
| 60° | 9481  | 8155  | 8027  |
| 65° | 9085  | 7753  | 7654  |
| 70° | 8605  | 7294  | 7225  |
| 75° | 7931  | 6784  | 6815  |
| 80° | 7173  | 6263  | 6384  |
| 85° | 6171  | 5740  | 6037  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10298 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 135.4  | 1.8       |
| 10°-20°   | 387.9  | 5.0       |
| 20°-30°   | 586.6  | 7.6       |
| 30°-40°   | 709.6  | 9.2       |
| 40°-50°   | 750.2  | 9.7       |
| 50°-60°   | 706.0  | 9.2       |
| 60°-70°   | 585.9  | 7.6       |
| 70°-80°   | 411.1  | 5.3       |
| 80°-90°   | 233.3  | 3.0       |
| 90°-100°  | 426.8  | 5.5       |
| 100°-110° | 689.5  | 8.9       |
| 110°-120° | 592.1  | 7.7       |
| 120°-130° | 478.4  | 6.2       |
| 130°-140° | 383.7  | 5.0       |
| 140°-150° | 283.6  | 3.7       |
| 150°-160° | 197.0  | 2.6       |
| 160°-170° | 115.9  | 1.5       |
| 170°-180° | 37.7   | 0.5       |
| 0°-30°    | 1109.9 | 14.4      |
| 0°-40°    | 1819.6 | 23.6      |
| 0°-60°    | 3275.8 | 42.5      |
| 0°-90°    | 4506.1 | 58.4      |
| 90°-120°  | 1708.4 | 22.2      |
| 90°-150°  | 2854.0 | 37.0      |
| 90°-180°  | 3205.0 | 41.6      |
| 0°-180°   | 7710.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1429 | 1429  | 1429 | 1429  | 1429 |      |
| 5°   | 1431 | 1426  | 1415 | 1427  | 1426 | 136  |
| 15°  | 1371 | 1373  | 1368 | 1383  | 1381 | 386  |
| 25°  | 1255 | 1264  | 1269 | 1287  | 1288 | 578  |
| 35°  | 1098 | 1117  | 1133 | 1155  | 1160 | 687  |
| 45°  | 915  | 946   | 976  | 1003  | 1011 | 707  |
| 55°  | 717  | 750   | 798  | 830   | 840  | 639  |
| 65°  | 496  | 547   | 602  | 642   | 654  | 492  |
| 75°  | 275  | 334   | 402  | 446   | 461  | 292  |
| 85°  | 85   | 152   | 224  | 272   | 288  | 88   |
| 90°  | 26   | 96    | 172  | 220   | 234  | 19   |
| 95°  | 46   | 153   | 762  | 491   | 383  | 44   |
| 105° | 104  | 176   | 607  | 1224  | 1233 | 111  |
| 115° | 167  | 221   | 522  | 969   | 1154 | 166  |
| 125° | 226  | 265   | 489  | 806   | 908  | 201  |
| 135° | 264  | 313   | 455  | 688   | 786  | 204  |
| 145° | 302  | 344   | 438  | 556   | 617  | 190  |
| 155° | 341  | 369   | 426  | 483   | 503  | 158  |
| 165° | 372  | 383   | 409  | 433   | 439  | 105  |
| 175° | 388  | 389   | 392  | 397   | 396  | 37   |
| 180° | 389  | 389   | 389  | 389   | 389  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1429.0 | 1429.0 | 1429.0 | 1429.0 | 1429.0 |
| 2.5°   | 1435.4 | 1430.6 | 1417.8 | 1429.0 | 1427.4 |
| 5°     | 1430.6 | 1425.8 | 1414.6 | 1427.4 | 1425.8 |
| 7.5°   | 1421.0 | 1417.8 | 1408.2 | 1422.6 | 1421.0 |
| 10°    | 1408.2 | 1406.6 | 1398.6 | 1413.0 | 1411.4 |
| 12.5°  | 1390.6 | 1390.6 | 1385.8 | 1398.6 | 1398.6 |
| 15°    | 1371.4 | 1373.0 | 1368.2 | 1382.6 | 1381.0 |
| 17.5°  | 1345.8 | 1350.6 | 1349.0 | 1363.4 | 1361.8 |
| 20°    | 1318.6 | 1323.4 | 1325.0 | 1341.0 | 1341.0 |
| 22.5°  | 1288.2 | 1294.6 | 1297.8 | 1313.8 | 1317.0 |
| 25°    | 1254.6 | 1264.2 | 1269.0 | 1286.6 | 1288.2 |
| 27.5°  | 1217.8 | 1232.2 | 1238.6 | 1254.6 | 1256.2 |
| 30°    | 1181.0 | 1193.8 | 1205.0 | 1222.6 | 1225.8 |
| 32.5°  | 1140.9 | 1157.0 | 1169.8 | 1190.6 | 1193.8 |
| 35°    | 1097.7 | 1116.9 | 1132.9 | 1155.4 | 1160.2 |
| 37.5°  | 1054.5 | 1076.9 | 1096.1 | 1118.5 | 1123.3 |
| 40°    | 1012.9 | 1033.7 | 1056.1 | 1080.1 | 1086.5 |
| 42.5°  | 964.9  | 988.9  | 1016.1 | 1043.3 | 1048.1 |
| 45°    | 915.3  | 945.7  | 976.1  | 1003.3 | 1011.3 |
| 47.5°  | 868.9  | 899.3  | 934.5  | 961.7  | 971.3  |
| 50°    | 817.7  | 852.9  | 888.1  | 920.1  | 929.7  |
| 52.5°  | 766.5  | 801.7  | 843.3  | 875.3  | 884.9  |
| 55°    | 716.9  | 750.5  | 798.5  | 830.5  | 840.1  |
| 57.5°  | 660.9  | 702.5  | 748.9  | 787.3  | 795.3  |
| 60°    | 606.5  | 648.1  | 700.9  | 737.7  | 750.5  |
| 62.5°  | 553.7  | 600.1  | 652.9  | 689.7  | 702.5  |
| 65°    | 496.1  | 547.3  | 601.7  | 641.7  | 654.5  |
| 67.5°  | 441.7  | 496.1  | 553.7  | 593.7  | 606.5  |
| 70°    | 385.7  | 440.1  | 500.9  | 544.1  | 555.3  |
| 72.5°  | 331.2  | 387.3  | 452.9  | 494.5  | 507.3  |
| 75°    | 275.2  | 334.4  | 401.7  | 446.5  | 460.9  |
| 77.5°  | 222.4  | 284.8  | 355.2  | 400.1  | 416.1  |
| 80°    | 174.4  | 238.4  | 308.8  | 356.8  | 369.6  |
| 82.5°  | 126.4  | 193.6  | 264.0  | 313.6  | 328.0  |
| 85°    | 84.8   | 152.0  | 224.0  | 272.0  | 288.0  |
| 87.5°  | 52.8   | 118.4  | 188.8  | 235.2  | 249.6  |
| 90°    | 26.4   | 95.7   | 172.1  | 220.1  | 233.6  |
| 92.5°  | 34.7   | 138.8  | 448.2  | 292.6  | 275.9  |
| 95°    | 46.0   | 153.0  | 761.7  | 490.6  | 383.2  |
| 97.5°  | 61.2   | 153.4  | 797.2  | 802.2  | 634.8  |
| 100°   | 75.6   | 158.5  | 735.7  | 1035.6 | 876.4  |
| 102.5° | 90.9   | 165.8  | 662.8  | 1177.1 | 1088.4 |
| 105°   | 103.8  | 175.8  | 606.6  | 1224.4 | 1233.0 |
| 107.5° | 121.3  | 187.8  | 567.3  | 1199.2 | 1296.8 |
| 110°   | 137.3  | 198.3  | 546.4  | 1128.6 | 1290.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 152.5 | 210.3 | 531.5 | 1044.1 | 1235.6 |
| 115°   | 166.9 | 221.4 | 522.0 | 968.9  | 1153.5 |
| 117.5° | 183.7 | 233.1 | 513.2 | 906.6  | 1074.4 |
| 120°   | 198.9 | 242.7 | 505.2 | 861.5  | 1006.8 |
| 122.5° | 214.2 | 253.6 | 496.5 | 830.2  | 951.4  |
| 125°   | 225.6 | 265.3 | 489.3 | 805.8  | 908.2  |
| 127.5° | 237.8 | 279.0 | 479.8 | 780.5  | 878.8  |
| 130°   | 246.2 | 290.8 | 471.0 | 753.8  | 850.8  |
| 132.5° | 256.1 | 302.2 | 463.9 | 723.6  | 822.2  |
| 135°   | 263.6 | 313.3 | 455.1 | 688.4  | 785.9  |
| 137.5° | 272.8 | 321.2 | 448.7 | 653.0  | 745.0  |
| 140°   | 282.7 | 330.1 | 443.1 | 618.2  | 702.6  |
| 142.5° | 291.8 | 338.0 | 439.9 | 587.0  | 657.9  |
| 145°   | 301.8 | 343.7 | 438.4 | 556.5  | 617.1  |
| 147.5° | 313.2 | 350.5 | 436.1 | 529.8  | 578.5  |
| 150°   | 323.9 | 357.0 | 433.8 | 511.0  | 545.3  |
| 152.5° | 332.2 | 363.2 | 430.0 | 496.4  | 522.4  |
| 155°   | 341.4 | 368.6 | 426.2 | 482.7  | 503.3  |
| 157.5° | 350.6 | 373.5 | 422.4 | 469.7  | 485.8  |
| 160°   | 359.0 | 377.7 | 417.8 | 456.8  | 469.7  |
| 162.5° | 366.6 | 381.2 | 413.2 | 444.2  | 454.4  |
| 165°   | 372.0 | 383.4 | 408.6 | 432.7  | 439.2  |
| 167.5° | 378.1 | 385.3 | 404.0 | 422.8  | 427.0  |
| 170°   | 381.9 | 386.8 | 399.5 | 412.8  | 415.5  |
| 172.5° | 385.7 | 388.0 | 394.9 | 404.0  | 404.0  |
| 175°   | 388.0 | 388.8 | 391.8 | 397.2  | 395.6  |
| 177.5° | 389.5 | 388.8 | 389.5 | 392.2  | 389.5  |
| 180°   | 388.8 | 388.8 | 388.8 | 388.8  | 388.8  |

(END OF REPORT)