

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: P1025079

Luminaire Tested: S124DIP-B1195D1205UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025079  
REPORT IS A COMBINATION OF REPORTS P995484 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B1195D1205UB27-4F0-XX-W2A-D4  
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

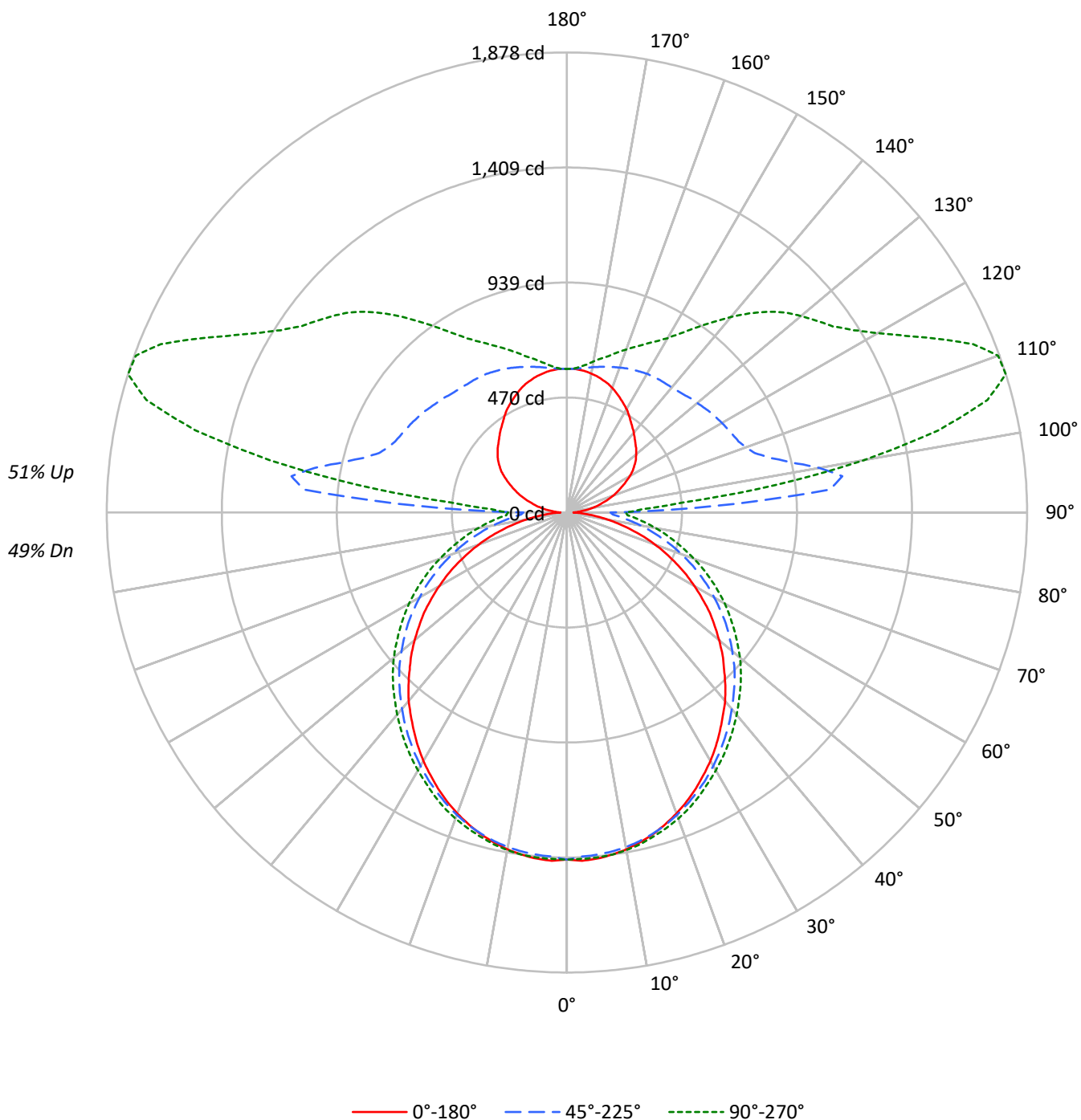
Lumens per Lamp: N/A  
Luminaire Lumens: 9109.5 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 96.3  
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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 |
| 1   | 97  | 92  | 88  | 84  | 89 | 85 | 81 | 78 | 71 | 68 | 66 | 59 | 57 | 55 | 47 | 46 | 45 |
| 2   | 88  | 80  | 73  | 68  | 80 | 73 | 68 | 63 | 62 | 57 | 54 | 51 | 48 | 45 | 41 | 39 | 37 |
| 3   | 80  | 70  | 62  | 56  | 73 | 64 | 57 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 36 | 33 | 31 |
| 4   | 73  | 61  | 53  | 47  | 66 | 57 | 49 | 44 | 48 | 42 | 38 | 40 | 35 | 32 | 32 | 29 | 26 |
| 5   | 67  | 54  | 46  | 40  | 61 | 50 | 43 | 37 | 43 | 37 | 32 | 35 | 31 | 27 | 29 | 25 | 23 |
| 6   | 61  | 49  | 40  | 34  | 56 | 45 | 38 | 32 | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 23 | 20 |
| 7   | 57  | 44  | 36  | 30  | 52 | 41 | 33 | 28 | 35 | 29 | 25 | 29 | 24 | 21 | 24 | 20 | 18 |
| 8   | 52  | 40  | 32  | 26  | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 26 | 22 | 19 | 22 | 18 | 16 |
| 9   | 49  | 36  | 29  | 23  | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 |
| 10  | 46  | 33  | 26  | 21  | 42 | 31 | 24 | 20 | 27 | 21 | 17 | 22 | 18 | 15 | 18 | 15 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11555 | 11555 | 11555 |
| 5°  | 11586 | 11254 | 11274 |
| 10° | 11511 | 11032 | 11000 |
| 15° | 11403 | 10783 | 10692 |
| 20° | 11244 | 10513 | 10393 |
| 25° | 11064 | 10216 | 10070 |
| 30° | 10869 | 9922  | 9740  |
| 35° | 10649 | 9621  | 9447  |
| 40° | 10472 | 9331  | 9144  |
| 45° | 10211 | 9060  | 8875  |
| 50° | 9988  | 8752  | 8592  |
| 55° | 9758  | 8456  | 8266  |
| 60° | 9401  | 8086  | 7959  |
| 65° | 9008  | 7688  | 7590  |
| 70° | 8531  | 7233  | 7163  |
| 75° | 7864  | 6726  | 6757  |
| 80° | 7115  | 6210  | 6331  |
| 85° | 6120  | 5691  | 5986  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10211 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.3  | 1.5       |
| 10°-20°   | 384.7  | 4.2       |
| 20°-30°   | 581.6  | 6.4       |
| 30°-40°   | 703.7  | 7.7       |
| 40°-50°   | 743.9  | 8.2       |
| 50°-60°   | 700.1  | 7.7       |
| 60°-70°   | 581.0  | 6.4       |
| 70°-80°   | 407.7  | 4.5       |
| 80°-90°   | 232.1  | 2.5       |
| 90°-100°  | 572.1  | 6.3       |
| 100°-110° | 986.6  | 10.8      |
| 110°-120° | 857.1  | 9.4       |
| 120°-130° | 701.1  | 7.7       |
| 130°-140° | 569.7  | 6.3       |
| 140°-150° | 425.7  | 4.7       |
| 150°-160° | 296.9  | 3.3       |
| 160°-170° | 174.6  | 1.9       |
| 170°-180° | 56.8   | 0.6       |
| 0°-30°    | 1100.6 | 12.1      |
| 0°-40°    | 1804.2 | 19.8      |
| 0°-60°    | 3248.2 | 35.7      |
| 0°-90°    | 4468.9 | 49.1      |
| 90°-120°  | 2415.8 | 26.5      |
| 90°-150°  | 4112.2 | 45.1      |
| 90°-180°  | 4641.0 | 50.9      |
| 0°-180°   | 9109.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1417 | 1417  | 1417 | 1417  | 1417 |      |
| 5°   | 1418 | 1414  | 1403 | 1415  | 1414 | 135  |
| 15°  | 1360 | 1361  | 1357 | 1371  | 1369 | 383  |
| 25°  | 1244 | 1254  | 1258 | 1276  | 1277 | 573  |
| 35°  | 1088 | 1108  | 1123 | 1146  | 1150 | 682  |
| 45°  | 908  | 938   | 968  | 995   | 1003 | 701  |
| 55°  | 711  | 744   | 792  | 824   | 833  | 633  |
| 65°  | 492  | 543   | 597  | 636   | 649  | 488  |
| 75°  | 273  | 332   | 398  | 443   | 457  | 290  |
| 85°  | 84   | 151   | 222  | 270   | 286  | 88   |
| 90°  | 27   | 98    | 178  | 226   | 240  | 20   |
| 95°  | 59   | 193   | 1076 | 645   | 476  | 58   |
| 105° | 149  | 241   | 860  | 1770  | 1777 | 160  |
| 115° | 247  | 321   | 748  | 1403  | 1676 | 245  |
| 125° | 337  | 397   | 714  | 1176  | 1325 | 301  |
| 135° | 396  | 471   | 678  | 1017  | 1159 | 306  |
| 145° | 454  | 518   | 661  | 834   | 922  | 285  |
| 155° | 515  | 555   | 642  | 728   | 759  | 237  |
| 165° | 561  | 578   | 616  | 652   | 662  | 158  |
| 175° | 585  | 586   | 591  | 599   | 596  | 56   |
| 180° | 586  | 586   | 586  | 586   | 586  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1417.0 | 1417.0 | 1417.0 | 1417.0 | 1417.0 |
| 2.5°   | 1423.3 | 1418.5 | 1405.9 | 1417.0 | 1415.4 |
| 5°     | 1418.5 | 1413.8 | 1402.7 | 1415.4 | 1413.8 |
| 7.5°   | 1409.0 | 1405.9 | 1396.3 | 1410.6 | 1409.0 |
| 10°    | 1396.3 | 1394.7 | 1386.8 | 1401.1 | 1399.5 |
| 12.5°  | 1378.9 | 1378.9 | 1374.1 | 1386.8 | 1386.8 |
| 15°    | 1359.8 | 1361.4 | 1356.7 | 1370.9 | 1369.4 |
| 17.5°  | 1334.5 | 1339.2 | 1337.6 | 1351.9 | 1350.3 |
| 20°    | 1307.5 | 1312.2 | 1313.8 | 1329.7 | 1329.7 |
| 22.5°  | 1277.3 | 1283.7 | 1286.8 | 1302.7 | 1305.9 |
| 25°    | 1244.0 | 1253.5 | 1258.3 | 1275.7 | 1277.3 |
| 27.5°  | 1207.5 | 1221.8 | 1228.1 | 1244.0 | 1245.6 |
| 30°    | 1171.0 | 1183.7 | 1194.8 | 1212.3 | 1215.4 |
| 32.5°  | 1131.3 | 1147.2 | 1159.9 | 1180.5 | 1183.7 |
| 35°    | 1088.5 | 1107.5 | 1123.4 | 1145.6 | 1150.4 |
| 37.5°  | 1045.7 | 1067.9 | 1086.9 | 1109.1 | 1113.9 |
| 40°    | 1004.4 | 1025.0 | 1047.2 | 1071.1 | 1077.4 |
| 42.5°  | 956.8  | 980.6  | 1007.6 | 1034.6 | 1039.3 |
| 45°    | 907.6  | 937.8  | 967.9  | 994.9  | 1002.8 |
| 47.5°  | 861.6  | 891.7  | 926.7  | 953.6  | 963.2  |
| 50°    | 810.8  | 845.7  | 880.6  | 912.4  | 921.9  |
| 52.5°  | 760.0  | 795.0  | 836.2  | 867.9  | 877.5  |
| 55°    | 710.9  | 744.2  | 791.8  | 823.5  | 833.0  |
| 57.5°  | 655.3  | 696.6  | 742.6  | 780.7  | 788.6  |
| 60°    | 601.4  | 642.6  | 695.0  | 731.5  | 744.2  |
| 62.5°  | 549.0  | 595.0  | 647.4  | 683.9  | 696.6  |
| 65°    | 491.9  | 542.7  | 596.6  | 636.3  | 649.0  |
| 67.5°  | 437.9  | 491.9  | 549.0  | 588.7  | 601.4  |
| 70°    | 382.4  | 436.4  | 496.7  | 539.5  | 550.6  |
| 72.5°  | 328.5  | 384.0  | 449.0  | 490.3  | 503.0  |
| 75°    | 272.9  | 331.6  | 398.3  | 442.7  | 457.0  |
| 77.5°  | 220.6  | 282.4  | 352.3  | 396.7  | 412.6  |
| 80°    | 173.0  | 236.4  | 306.2  | 353.8  | 366.5  |
| 82.5°  | 125.4  | 192.0  | 261.8  | 311.0  | 325.3  |
| 85°    | 84.1   | 150.7  | 222.1  | 269.7  | 285.6  |
| 87.5°  | 52.4   | 117.4  | 187.2  | 233.3  | 247.5  |
| 90°    | 26.6   | 98.1   | 177.8  | 226.1  | 240.0  |
| 92.5°  | 39.9   | 168.0  | 598.9  | 341.1  | 309.5  |
| 95°    | 58.6   | 192.7  | 1076.2 | 645.4  | 476.1  |
| 97.5°  | 82.3   | 197.5  | 1133.9 | 1120.0 | 860.2  |
| 100°   | 105.0  | 208.3  | 1046.2 | 1475.8 | 1230.1 |
| 102.5° | 128.0  | 222.8  | 940.4  | 1694.2 | 1553.8 |
| 105°   | 149.0  | 241.1  | 859.9  | 1770.5 | 1776.8 |
| 107.5° | 175.5  | 261.8  | 804.8  | 1736.6 | 1877.9 |
| 110°   | 200.3  | 280.6  | 776.5  | 1635.0 | 1872.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 224.1 | 301.2 | 758.3 | 1512.6 | 1794.7 |
| 115°   | 246.6 | 321.4 | 748.1 | 1403.4 | 1675.9 |
| 117.5° | 272.0 | 341.4 | 738.9 | 1314.6 | 1560.9 |
| 120°   | 295.7 | 359.2 | 731.0 | 1251.4 | 1463.8 |
| 122.5° | 318.7 | 378.0 | 721.9 | 1208.4 | 1385.2 |
| 125°   | 336.7 | 397.3 | 714.4 | 1175.8 | 1325.1 |
| 127.5° | 355.1 | 418.1 | 704.2 | 1142.6 | 1285.0 |
| 130°   | 368.6 | 436.6 | 695.1 | 1106.4 | 1247.7 |
| 132.5° | 383.5 | 453.9 | 687.6 | 1065.1 | 1208.7 |
| 135°   | 395.8 | 470.6 | 678.5 | 1017.0 | 1159.0 |
| 137.5° | 409.6 | 483.4 | 672.1 | 967.6  | 1102.3 |
| 140°   | 424.5 | 496.6 | 666.3 | 919.4  | 1042.5 |
| 142.5° | 439.1 | 508.7 | 663.1 | 875.8  | 979.3  |
| 145°   | 454.0 | 518.0 | 660.8 | 833.8  | 921.9  |
| 147.5° | 471.3 | 528.4 | 657.3 | 797.6  | 867.8  |
| 150°   | 487.4 | 538.2 | 653.9 | 770.2  | 822.0  |
| 152.5° | 500.8 | 547.4 | 648.1 | 748.2  | 787.4  |
| 155°   | 514.6 | 555.4 | 642.4 | 727.6  | 758.6  |
| 157.5° | 528.4 | 562.9 | 636.6 | 708.0  | 732.2  |
| 160°   | 541.1 | 569.2 | 629.7 | 688.4  | 708.0  |
| 162.5° | 552.6 | 574.4 | 622.8 | 669.4  | 685.0  |
| 165°   | 560.6 | 577.9 | 615.9 | 652.2  | 661.9  |
| 167.5° | 569.8 | 580.8 | 609.0 | 637.2  | 643.5  |
| 170°   | 575.6 | 583.1 | 602.1 | 622.2  | 626.3  |
| 172.5° | 581.4 | 584.8 | 595.2 | 609.0  | 609.0  |
| 175°   | 584.8 | 586.0 | 590.6 | 598.6  | 596.3  |
| 177.5° | 587.1 | 586.0 | 587.1 | 591.2  | 587.1  |
| 180°   | 586.0 | 586.0 | 586.0 | 586.0  | 586.0  |

(END OF REPORT)