

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: P1011067

Luminaire Tested: S123DIP-B1000D1195UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1011067  
REPORT IS A COMBINATION OF REPORTS P989082 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B1000D1195UB27-4F0-XX-W2A-D  
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

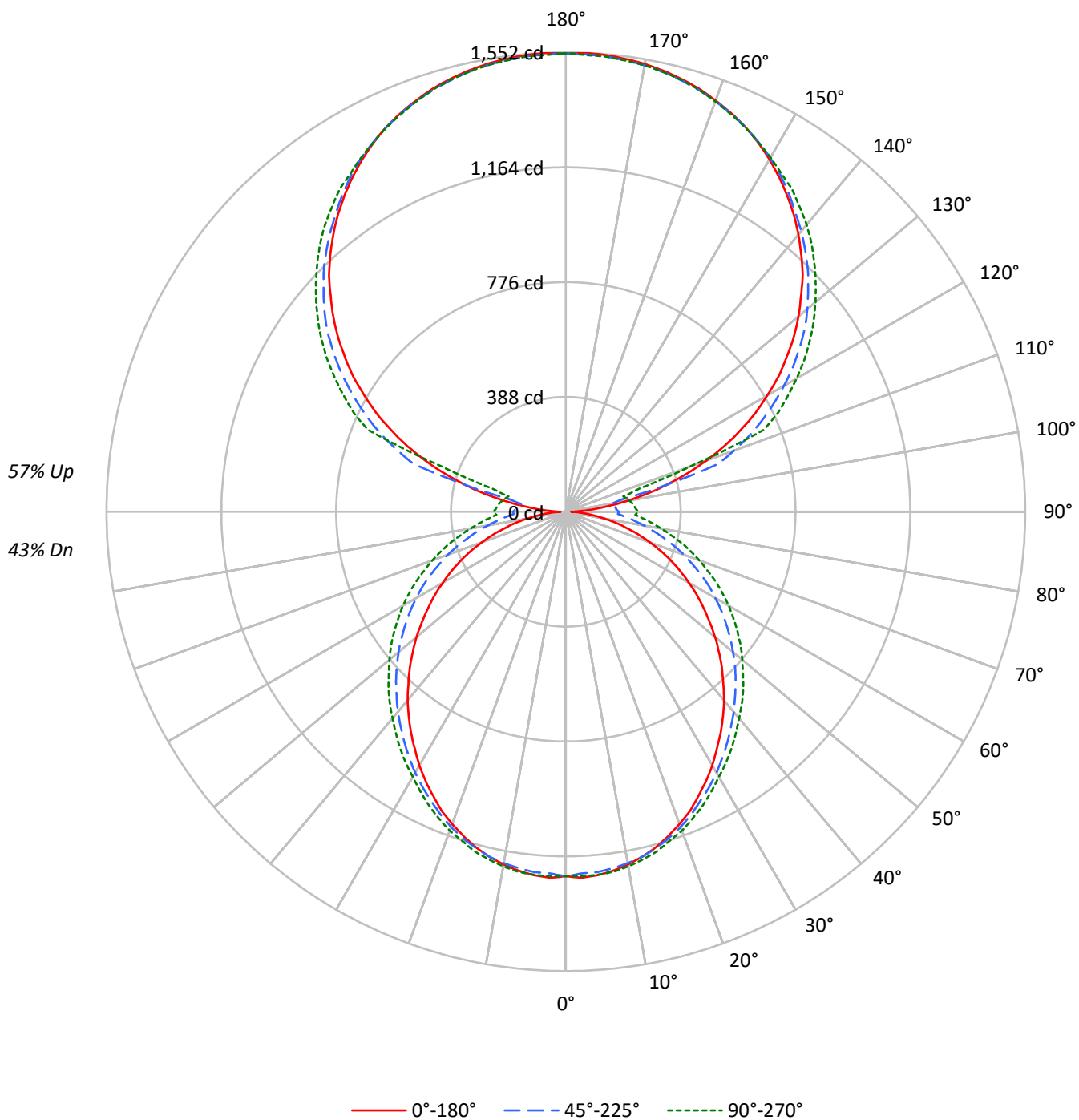
Lumens per Lamp: N/A  
Luminaire Lumens: 8864.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 81.8  
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 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 |
| 1   | 95  | 91  | 86  | 83  | 87 | 83 | 79 | 76 | 68 | 66 | 63 | 55 | 53 | 51 | 42 | 41 | 40 |
| 2   | 86  | 79  | 72  | 67  | 78 | 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 | 32 | 30 | 28 |
| 4   | 72  | 61  | 53  | 46  | 65 | 56 | 48 | 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 | 20 |
| 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 | 20 | 17 | 19 | 16 | 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 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13254 | 13254 | 13254 |
| 5°  | 13289 | 12864 | 12854 |
| 10° | 13165 | 12516 | 12420 |
| 15° | 12991 | 12131 | 11960 |
| 20° | 12743 | 11702 | 11467 |
| 25° | 12439 | 11219 | 10956 |
| 30° | 12127 | 10782 | 10442 |
| 35° | 11778 | 10323 | 10023 |
| 40° | 11445 | 9903  | 9581  |
| 45° | 11075 | 9499  | 9217  |
| 50° | 10708 | 9096  | 8821  |
| 55° | 10304 | 8682  | 8458  |
| 60° | 9909  | 8260  | 8084  |
| 65° | 9500  | 7811  | 7650  |
| 70° | 8888  | 7306  | 7200  |
| 75° | 8114  | 6732  | 6735  |
| 80° | 7210  | 6147  | 6207  |
| 85° | 6311  | 5678  | 5827  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11075 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.8  | 1.3       |
| 10°-20°   | 333.0  | 3.8       |
| 20°-30°   | 497.9  | 5.6       |
| 30°-40°   | 594.5  | 6.7       |
| 40°-50°   | 622.0  | 7.0       |
| 50°-60°   | 583.7  | 6.6       |
| 60°-70°   | 487.5  | 5.5       |
| 70°-80°   | 348.6  | 3.9       |
| 80°-90°   | 210.5  | 2.4       |
| 90°-100°  | 185.0  | 2.1       |
| 100°-110° | 359.9  | 4.1       |
| 110°-120° | 711.2  | 8.0       |
| 120°-130° | 858.2  | 9.7       |
| 130°-140° | 894.2  | 10.1      |
| 140°-150° | 824.2  | 9.3       |
| 150°-160° | 662.1  | 7.5       |
| 160°-170° | 427.3  | 4.8       |
| 170°-180° | 147.2  | 1.7       |
| 0°-30°    | 947.7  | 10.7      |
| 0°-40°    | 1542.2 | 17.4      |
| 0°-60°    | 2747.9 | 31.0      |
| 0°-90°    | 3794.6 | 42.8      |
| 90°-120°  | 1256.2 | 14.2      |
| 90°-150°  | 3832.8 | 43.2      |
| 90°-180°  | 5069.0 | 57.2      |
| 0°-180°   | 8864.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1231 | 1231  | 1231 | 1231  | 1231 |      |
| 5°   | 1233 | 1230  | 1222 | 1233  | 1231 | 117  |
| 15°  | 1174 | 1178  | 1176 | 1190  | 1188 | 331  |
| 25°  | 1060 | 1073  | 1077 | 1094  | 1094 | 488  |
| 35°  | 912  | 934   | 951  | 971   | 976  | 570  |
| 45°  | 746  | 778   | 812  | 837   | 848  | 575  |
| 55°  | 569  | 613   | 661  | 697   | 708  | 509  |
| 65°  | 393  | 445   | 504  | 544   | 558  | 388  |
| 75°  | 213  | 276   | 343  | 388   | 404  | 228  |
| 85°  | 66   | 133   | 204  | 250   | 263  | 68   |
| 90°  | 19   | 96    | 179  | 229   | 245  | 16   |
| 95°  | 85   | 90    | 168  | 218   | 232  | 95   |
| 105° | 354  | 399   | 353  | 186   | 201  | 374  |
| 115° | 650  | 673   | 732  | 776   | 791  | 642  |
| 125° | 911  | 920   | 964  | 994   | 1006 | 814  |
| 135° | 1132 | 1137  | 1157 | 1184  | 1188 | 871  |
| 145° | 1304 | 1311  | 1313 | 1326  | 1332 | 816  |
| 155° | 1435 | 1433  | 1434 | 1440  | 1433 | 661  |
| 165° | 1514 | 1510  | 1509 | 1518  | 1510 | 428  |
| 175° | 1549 | 1544  | 1545 | 1553  | 1544 | 147  |
| 180° | 1549 | 1549  | 1549 | 1549  | 1549 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1231.3 | 1231.3 | 1231.3 | 1231.3 | 1231.3 |
| 2.5°   | 1238.0 | 1233.9 | 1223.2 | 1233.9 | 1232.6 |
| 5°     | 1232.6 | 1229.9 | 1221.9 | 1232.6 | 1231.3 |
| 7.5°   | 1223.2 | 1223.2 | 1215.2 | 1228.6 | 1227.2 |
| 10°    | 1209.8 | 1212.5 | 1205.8 | 1219.2 | 1216.5 |
| 12.5°  | 1193.7 | 1197.7 | 1193.7 | 1205.8 | 1203.1 |
| 15°    | 1173.6 | 1177.6 | 1176.3 | 1189.7 | 1188.3 |
| 17.5°  | 1149.4 | 1157.5 | 1156.2 | 1168.2 | 1165.5 |
| 20°    | 1122.6 | 1130.7 | 1133.3 | 1145.4 | 1146.8 |
| 22.5°  | 1094.5 | 1102.5 | 1106.5 | 1122.6 | 1121.3 |
| 25°    | 1059.6 | 1073.0 | 1077.0 | 1094.5 | 1094.5 |
| 27.5°  | 1026.1 | 1040.8 | 1048.9 | 1063.6 | 1064.9 |
| 30°    | 989.8  | 1007.3 | 1018.0 | 1034.1 | 1034.1 |
| 32.5°  | 949.6  | 969.7  | 984.5  | 1001.9 | 1005.9 |
| 35°    | 912.0  | 933.5  | 950.9  | 971.1  | 976.4  |
| 37.5°  | 871.8  | 895.9  | 916.1  | 938.9  | 942.9  |
| 40°    | 831.6  | 855.7  | 882.5  | 905.3  | 910.7  |
| 42.5°  | 787.3  | 818.2  | 846.3  | 871.8  | 879.9  |
| 45°    | 745.7  | 777.9  | 811.5  | 836.9  | 847.7  |
| 47.5°  | 701.5  | 737.7  | 775.2  | 803.4  | 811.5  |
| 50°    | 658.5  | 696.1  | 737.7  | 768.5  | 777.9  |
| 52.5°  | 612.9  | 653.2  | 700.1  | 732.3  | 744.4  |
| 55°    | 568.7  | 612.9  | 661.2  | 697.4  | 708.2  |
| 57.5°  | 525.8  | 571.4  | 623.7  | 659.9  | 672.0  |
| 60°    | 480.2  | 528.4  | 583.4  | 621.0  | 635.7  |
| 62.5°  | 437.2  | 486.9  | 545.9  | 583.4  | 596.9  |
| 65°    | 393.0  | 445.3  | 504.3  | 544.5  | 558.0  |
| 67.5°  | 348.7  | 403.7  | 462.7  | 507.0  | 517.7  |
| 70°    | 301.8  | 359.5  | 423.8  | 466.8  | 480.2  |
| 72.5°  | 258.9  | 316.5  | 383.6  | 427.9  | 441.3  |
| 75°    | 213.3  | 276.3  | 343.4  | 387.6  | 403.7  |
| 77.5°  | 174.4  | 237.4  | 304.5  | 351.4  | 363.5  |
| 80°    | 132.8  | 198.5  | 268.2  | 313.9  | 327.3  |
| 82.5°  | 96.6   | 163.6  | 234.7  | 280.3  | 293.7  |
| 85°    | 65.7   | 132.8  | 203.9  | 249.5  | 262.9  |
| 87.5°  | 40.2   | 107.3  | 175.7  | 221.3  | 234.7  |
| 90°    | 18.6   | 95.9   | 179.2  | 229.4  | 245.1  |
| 92.5°  | 42.6   | 93.4   | 170.7  | 223.1  | 236.3  |
| 95°    | 85.0   | 90.1   | 168.5  | 218.1  | 231.5  |
| 97.5°  | 141.2  | 157.2  | 161.5  | 211.0  | 225.6  |
| 100°   | 206.6  | 272.5  | 154.7  | 202.8  | 217.3  |
| 102.5° | 281.2  | 333.7  | 193.8  | 193.4  | 209.1  |
| 105°   | 353.7  | 398.6  | 352.7  | 186.4  | 200.8  |
| 107.5° | 429.5  | 468.1  | 540.2  | 399.3  | 260.5  |
| 110°   | 505.2  | 538.6  | 604.9  | 601.8  | 447.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 578.9  | 605.7  | 669.4  | 713.3  | 723.1  |
| 115°   | 650.1  | 673.1  | 731.8  | 775.5  | 790.8  |
| 117.5° | 721.5  | 740.2  | 791.6  | 833.0  | 844.9  |
| 120°   | 785.8  | 802.8  | 850.5  | 890.6  | 900.0  |
| 122.5° | 852.5  | 863.2  | 909.4  | 944.6  | 955.2  |
| 125°   | 911.0  | 920.2  | 963.7  | 994.2  | 1005.9 |
| 127.5° | 970.8  | 978.7  | 1018.0 | 1048.2 | 1055.3 |
| 130°   | 1026.1 | 1034.0 | 1065.4 | 1095.5 | 1101.2 |
| 132.5° | 1077.7 | 1086.9 | 1110.5 | 1139.2 | 1145.1 |
| 135°   | 1131.8 | 1137.3 | 1156.7 | 1184.3 | 1187.5 |
| 137.5° | 1177.8 | 1185.7 | 1197.4 | 1224.6 | 1229.0 |
| 140°   | 1222.5 | 1229.4 | 1236.9 | 1261.6 | 1266.0 |
| 142.5° | 1265.1 | 1270.7 | 1274.1 | 1295.0 | 1298.2 |
| 145°   | 1304.2 | 1311.0 | 1313.3 | 1326.3 | 1331.7 |
| 147.5° | 1340.9 | 1346.6 | 1348.9 | 1355.2 | 1354.9 |
| 150°   | 1375.4 | 1378.9 | 1381.2 | 1383.5 | 1382.7 |
| 152.5° | 1406.5 | 1407.6 | 1408.8 | 1413.4 | 1407.6 |
| 155°   | 1435.3 | 1433.0 | 1434.1 | 1439.9 | 1433.0 |
| 157.5° | 1458.3 | 1458.3 | 1457.1 | 1464.0 | 1454.8 |
| 160°   | 1479.0 | 1477.9 | 1476.7 | 1483.6 | 1475.6 |
| 162.5° | 1498.6 | 1495.1 | 1494.0 | 1502.0 | 1495.1 |
| 165°   | 1513.5 | 1510.1 | 1508.9 | 1518.1 | 1510.1 |
| 167.5° | 1526.2 | 1521.6 | 1521.6 | 1530.8 | 1521.6 |
| 170°   | 1536.6 | 1531.9 | 1531.9 | 1541.2 | 1531.9 |
| 172.5° | 1543.5 | 1537.7 | 1538.9 | 1548.1 | 1537.7 |
| 175°   | 1549.2 | 1543.5 | 1544.6 | 1552.7 | 1543.5 |
| 177.5° | 1551.5 | 1545.8 | 1546.9 | 1556.1 | 1544.6 |
| 180°   | 1549.2 | 1549.2 | 1549.2 | 1549.2 | 1549.2 |

(END OF REPORT)