

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: P1010422

Luminaire Tested: S123DIP-B1000D1195UB2750-4F0-XX-W2A-F\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010422  
REPORT IS A COMBINATION OF REPORTS P989101 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B1000D1195UB2750-4F0-XX-W2A-F\_4000K  
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

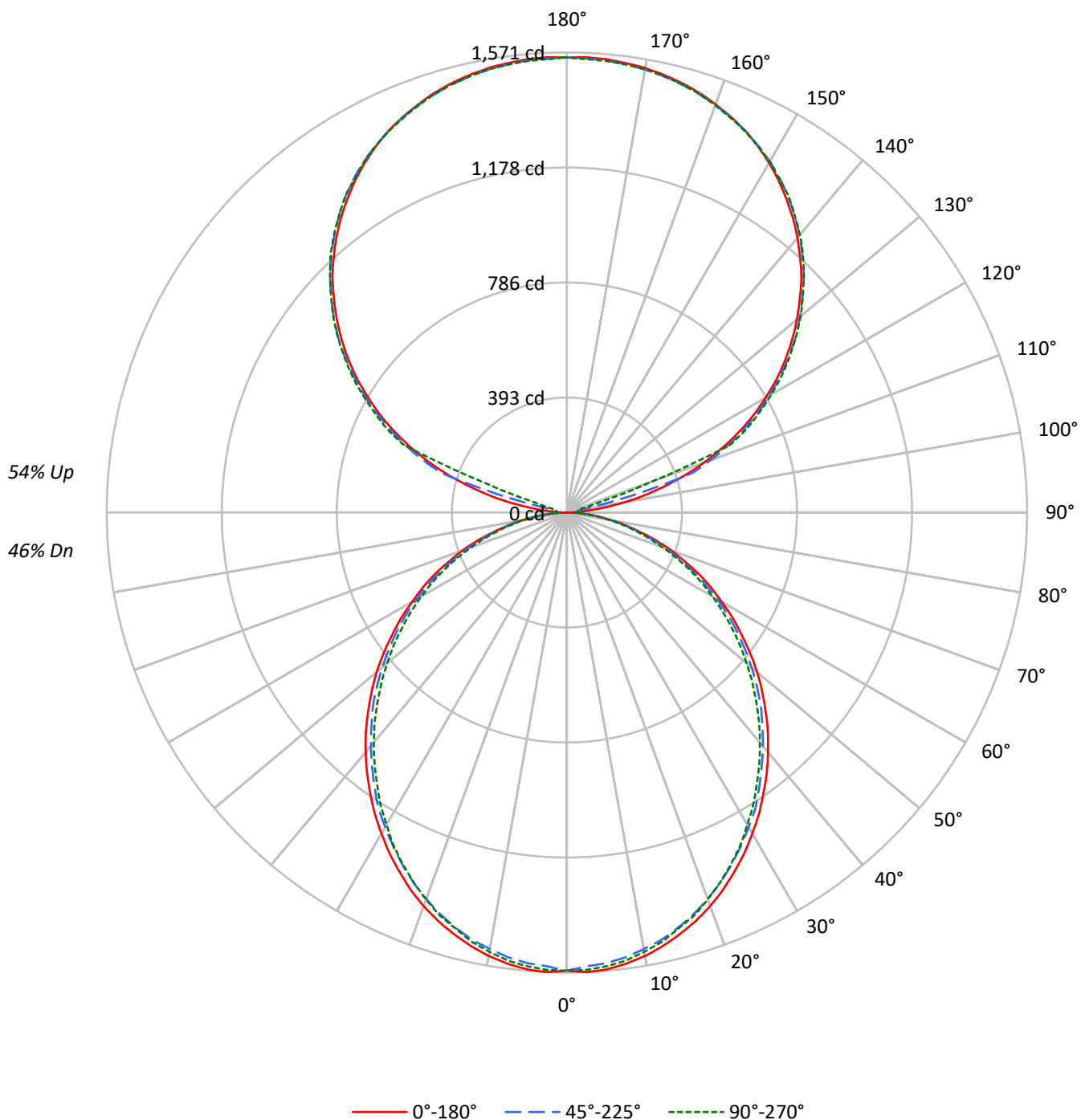
Lumens per Lamp: N/A  
Luminaire Lumens: 8812.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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   | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 81 | 81 | 81 | 66 | 66 | 66 | 53 | 53 | 53 |
| 1   | 97  | 93  | 89  | 85  | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 57 | 55 | 46 | 45 | 44 |
| 2   | 88  | 81  | 75  | 70  | 81 | 74 | 69 | 65 | 62 | 58 | 55 | 51 | 48 | 46 | 41 | 39 | 37 |
| 3   | 80  | 71  | 64  | 58  | 74 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 42 | 39 | 36 | 34 | 32 |
| 4   | 74  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 49 | 44 | 39 | 40 | 36 | 33 | 32 | 30 | 27 |
| 5   | 67  | 56  | 48  | 42  | 62 | 52 | 44 | 39 | 44 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 33 | 28 | 25 | 26 | 23 | 21 |
| 7   | 57  | 45  | 37  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 25 | 22 | 24 | 21 | 19 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 |
| 9   | 50  | 37  | 30  | 25  | 45 | 35 | 28 | 23 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 |
| 10  | 46  | 34  | 27  | 22  | 43 | 32 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16841 | 16841 | 16841 |
| 5°  | 16884 | 16260 | 16236 |
| 10° | 16733 | 15710 | 15549 |
| 15° | 16500 | 15138 | 14799 |
| 20° | 16234 | 14502 | 14058 |
| 25° | 15889 | 13832 | 13264 |
| 30° | 15511 | 13138 | 12430 |
| 35° | 15115 | 12429 | 11601 |
| 40° | 14701 | 11685 | 10784 |
| 45° | 14245 | 10959 | 9933  |
| 50° | 13783 | 10151 | 9078  |
| 55° | 13187 | 9310  | 8211  |
| 60° | 12575 | 8380  | 7288  |
| 65° | 12000 | 7375  | 6326  |
| 70° | 11173 | 6261  | 5204  |
| 75° | 9978  | 4958  | 4041  |
| 80° | 8616  | 3484  | 2858  |
| 85° | 6724  | 1874  | 1432  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14245 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 147.5  | 1.7       |
| 10°-20°   | 416.5  | 4.7       |
| 20°-30°   | 615.1  | 7.0       |
| 30°-40°   | 718.4  | 8.2       |
| 40°-50°   | 722.2  | 8.2       |
| 50°-60°   | 634.4  | 7.2       |
| 60°-70°   | 472.5  | 5.4       |
| 70°-80°   | 268.9  | 3.1       |
| 80°-90°   | 79.6   | 0.9       |
| 90°-100°  | 54.8   | 0.6       |
| 100°-110° | 264.9  | 3.0       |
| 110°-120° | 649.2  | 7.4       |
| 120°-130° | 824.1  | 9.4       |
| 130°-140° | 880.4  | 10.0      |
| 140°-150° | 823.3  | 9.3       |
| 150°-160° | 664.0  | 7.5       |
| 160°-170° | 428.5  | 4.9       |
| 170°-180° | 147.7  | 1.7       |
| 0°-30°    | 1179.1 | 13.4      |
| 0°-40°    | 1897.5 | 21.5      |
| 0°-60°    | 3254.2 | 36.9      |
| 0°-90°    | 4075.1 | 46.2      |
| 90°-120°  | 968.9  | 11.0      |
| 90°-150°  | 3496.7 | 39.7      |
| 90°-180°  | 4737.0 | 53.8      |
| 0°-180°   | 8812.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1565 | 1565  | 1565 | 1565  | 1565 |      |
| 5°   | 1566 | 1559  | 1544 | 1558  | 1555 | 149  |
| 15°  | 1491 | 1485  | 1468 | 1478  | 1470 | 420  |
| 25°  | 1353 | 1345  | 1328 | 1329  | 1325 | 623  |
| 35°  | 1170 | 1162  | 1145 | 1137  | 1130 | 732  |
| 45°  | 959  | 954   | 936  | 920   | 914  | 741  |
| 55°  | 728  | 726   | 709  | 694   | 688  | 652  |
| 65°  | 496  | 490   | 476  | 466   | 461  | 490  |
| 75°  | 262  | 257   | 253  | 246   | 242  | 280  |
| 85°  | 70   | 67    | 67   | 65    | 65   | 75   |
| 90°  | 1    | 13    | 28   | 32    | 35   | 9    |
| 95°  | 70   | 23    | 36   | 44    | 44   | 84   |
| 105° | 344  | 357   | 253  | 48    | 51   | 365  |
| 115° | 645  | 652   | 663  | 674   | 679  | 637  |
| 125° | 910  | 919   | 924  | 926   | 928  | 813  |
| 135° | 1132 | 1139  | 1144 | 1148  | 1144 | 872  |
| 145° | 1307 | 1315  | 1317 | 1320  | 1320 | 818  |
| 155° | 1440 | 1437  | 1438 | 1444  | 1437 | 663  |
| 165° | 1518 | 1515  | 1513 | 1523  | 1515 | 429  |
| 175° | 1554 | 1548  | 1549 | 1557  | 1548 | 148  |
| 180° | 1554 | 1554  | 1554 | 1554  | 1554 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1564.6 | 1564.6 | 1564.6 | 1564.6 | 1564.6 |
| 2.5°   | 1571.3 | 1566.0 | 1551.2 | 1564.6 | 1563.3 |
| 5°     | 1566.0 | 1559.2 | 1544.4 | 1557.9 | 1555.2 |
| 7.5°   | 1553.9 | 1547.1 | 1532.3 | 1544.4 | 1543.1 |
| 10°    | 1537.7 | 1531.0 | 1513.5 | 1525.6 | 1522.9 |
| 12.5°  | 1516.2 | 1510.8 | 1494.7 | 1502.7 | 1501.4 |
| 15°    | 1490.6 | 1485.2 | 1467.8 | 1478.5 | 1470.4 |
| 17.5°  | 1462.4 | 1455.6 | 1438.2 | 1446.2 | 1443.5 |
| 20°    | 1430.1 | 1422.0 | 1404.5 | 1409.9 | 1405.9 |
| 22.5°  | 1393.8 | 1385.7 | 1368.2 | 1372.2 | 1366.9 |
| 25°    | 1353.4 | 1345.3 | 1327.8 | 1329.2 | 1325.1 |
| 27.5°  | 1311.7 | 1303.6 | 1284.8 | 1286.1 | 1282.1 |
| 30°    | 1266.0 | 1259.2 | 1240.4 | 1240.4 | 1231.0 |
| 32.5°  | 1220.2 | 1210.8 | 1197.3 | 1187.9 | 1183.9 |
| 35°    | 1170.4 | 1162.4 | 1144.9 | 1136.8 | 1130.1 |
| 37.5°  | 1120.7 | 1109.9 | 1092.4 | 1083.0 | 1079.0 |
| 40°    | 1068.2 | 1060.1 | 1041.3 | 1030.5 | 1025.1 |
| 42.5°  | 1015.7 | 1006.3 | 987.5  | 976.7  | 971.3  |
| 45°    | 959.2  | 953.8  | 936.3  | 920.2  | 913.5  |
| 47.5°  | 904.1  | 896.0  | 879.8  | 863.7  | 858.3  |
| 50°    | 847.6  | 840.8  | 823.3  | 808.5  | 800.5  |
| 52.5°  | 788.4  | 784.3  | 765.5  | 753.4  | 745.3  |
| 55°    | 727.8  | 726.5  | 709.0  | 694.2  | 687.5  |
| 57.5°  | 671.3  | 665.9  | 652.5  | 639.0  | 631.0  |
| 60°    | 609.4  | 608.1  | 591.9  | 579.8  | 573.1  |
| 62.5°  | 554.3  | 550.2  | 534.1  | 522.0  | 518.0  |
| 65°    | 496.4  | 489.7  | 476.2  | 465.5  | 461.4  |
| 67.5°  | 434.5  | 429.2  | 418.4  | 409.0  | 403.6  |
| 70°    | 379.4  | 371.3  | 363.2  | 353.8  | 347.1  |
| 72.5°  | 321.5  | 316.2  | 306.7  | 298.7  | 296.0  |
| 75°    | 262.3  | 257.0  | 252.9  | 246.2  | 242.2  |
| 77.5°  | 209.9  | 207.2  | 201.8  | 196.4  | 196.4  |
| 80°    | 158.7  | 154.7  | 152.0  | 150.7  | 150.7  |
| 82.5°  | 109.0  | 109.0  | 109.0  | 106.3  | 104.9  |
| 85°    | 70.0   | 67.3   | 67.3   | 64.6   | 64.6   |
| 87.5°  | 35.0   | 30.9   | 29.6   | 28.3   | 28.3   |
| 90°    | 1.2    | 12.7   | 27.7   | 32.3   | 34.6   |
| 92.5°  | 26.6   | 19.6   | 30.0   | 38.1   | 39.2   |
| 95°    | 70.4   | 23.1   | 35.8   | 43.9   | 43.9   |
| 97.5°  | 128.1  | 95.8   | 36.9   | 46.2   | 47.3   |
| 100°   | 195.1  | 218.2  | 38.1   | 47.3   | 48.5   |
| 102.5° | 271.3  | 286.3  | 85.4   | 47.3   | 49.6   |
| 105°   | 344.0  | 356.7  | 252.8  | 48.5   | 50.8   |
| 107.5° | 421.4  | 431.7  | 449.1  | 271.3  | 120.1  |
| 110°   | 498.7  | 507.9  | 520.6  | 482.5  | 317.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 572.6  | 580.7  | 593.4  | 603.7  | 601.4  |
| 115°   | 645.3  | 652.2  | 662.6  | 674.2  | 678.8  |
| 117.5° | 716.9  | 725.0  | 730.7  | 740.0  | 741.1  |
| 120°   | 782.7  | 793.1  | 796.5  | 805.8  | 805.8  |
| 122.5° | 849.6  | 857.7  | 862.3  | 868.1  | 869.3  |
| 125°   | 909.7  | 918.9  | 923.5  | 925.8  | 928.1  |
| 127.5° | 969.7  | 978.9  | 984.7  | 988.2  | 985.8  |
| 130°   | 1025.1 | 1034.3 | 1038.9 | 1043.6 | 1041.3 |
| 132.5° | 1078.2 | 1087.4 | 1090.9 | 1095.5 | 1092.0 |
| 135°   | 1132.5 | 1139.4 | 1144.0 | 1147.5 | 1144.0 |
| 137.5° | 1178.6 | 1187.9 | 1190.2 | 1195.9 | 1193.6 |
| 140°   | 1224.8 | 1231.7 | 1235.2 | 1239.8 | 1237.5 |
| 142.5° | 1267.5 | 1274.4 | 1277.9 | 1281.4 | 1277.9 |
| 145°   | 1306.8 | 1314.8 | 1317.2 | 1319.5 | 1319.5 |
| 147.5° | 1344.9 | 1350.6 | 1352.9 | 1355.2 | 1349.5 |
| 150°   | 1379.5 | 1383.0 | 1385.3 | 1387.6 | 1384.1 |
| 152.5° | 1410.7 | 1411.8 | 1413.0 | 1417.6 | 1411.8 |
| 155°   | 1439.5 | 1437.2 | 1438.4 | 1444.1 | 1437.2 |
| 157.5° | 1462.6 | 1462.6 | 1461.5 | 1468.4 | 1459.1 |
| 160°   | 1483.4 | 1482.2 | 1481.1 | 1488.0 | 1479.9 |
| 162.5° | 1503.0 | 1499.5 | 1498.4 | 1506.5 | 1499.5 |
| 165°   | 1518.0 | 1514.6 | 1513.4 | 1522.6 | 1514.6 |
| 167.5° | 1530.7 | 1526.1 | 1526.1 | 1535.3 | 1526.1 |
| 170°   | 1541.1 | 1536.5 | 1536.5 | 1545.7 | 1536.5 |
| 172.5° | 1548.0 | 1542.3 | 1543.4 | 1552.6 | 1542.3 |
| 175°   | 1553.8 | 1548.0 | 1549.2 | 1557.3 | 1548.0 |
| 177.5° | 1556.1 | 1550.3 | 1551.5 | 1560.7 | 1549.2 |
| 180°   | 1553.8 | 1553.8 | 1553.8 | 1553.8 | 1553.8 |

(END OF REPORT)