

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: P1010714

Luminaire Tested: S123DIP-B775D1195UB2750-4F0-XX-W2A-D\_2700K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010714  
REPORT IS A COMBINATION OF REPORTS P990293 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B775D1195UB2750-4F0-XX-W2A-D\_2700K  
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

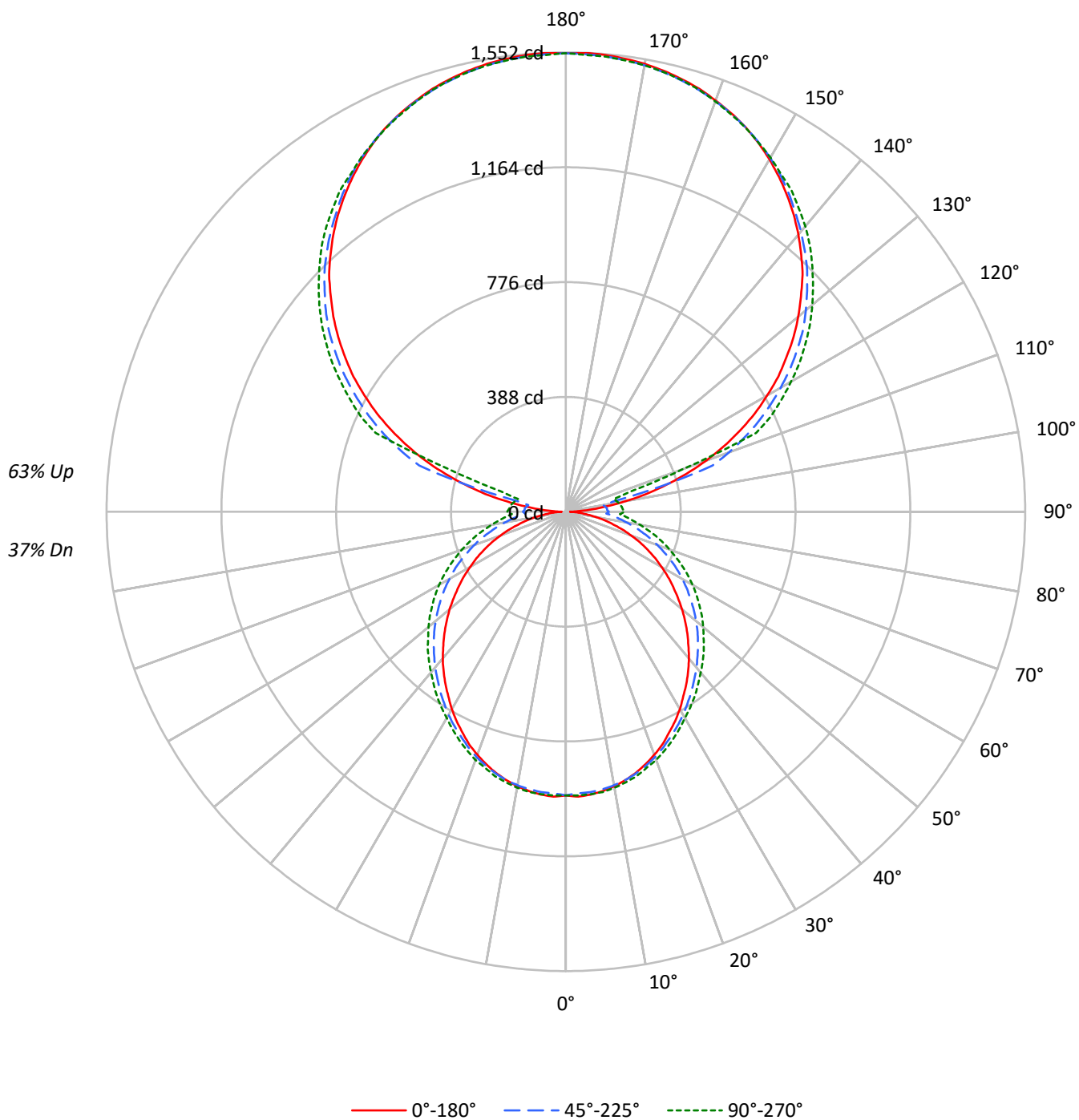
Lumens per Lamp: N/A  
Luminaire Lumens: 7946.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 70.9  
Input Voltage (V): 120  
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 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 60 | 60 | 60 | 44 | 44 | 44 |    |    | 37 |
| 1   | 94  | 90  | 85  | 82  | 85 | 81 | 78 | 75 | 66 | 63 | 61 | 51 | 49 | 48 | 38 | 37 | 36 |    |    | 30 |
| 2   | 85  | 78  | 71  | 66  | 77 | 71 | 65 | 60 | 57 | 53 | 50 | 44 | 42 | 39 | 33 | 31 | 30 |    |    | 24 |
| 3   | 78  | 68  | 61  | 55  | 70 | 62 | 55 | 50 | 50 | 45 | 41 | 39 | 36 | 33 | 29 | 27 | 25 |    |    | 20 |
| 4   | 71  | 60  | 52  | 46  | 64 | 55 | 48 | 42 | 44 | 39 | 35 | 35 | 31 | 28 | 26 | 23 | 21 |    |    | 17 |
| 5   | 65  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 34 | 30 | 31 | 27 | 24 | 23 | 20 | 18 |    |    | 15 |
| 6   | 60  | 48  | 39  | 34  | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 |    |    | 13 |
| 7   | 55  | 43  | 35  | 29  | 50 | 39 | 32 | 27 | 32 | 27 | 23 | 25 | 21 | 18 | 19 | 16 | 14 |    |    | 11 |
| 8   | 51  | 39  | 31  | 26  | 46 | 35 | 29 | 24 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 15 | 13 |    |    | 10 |
| 9   | 47  | 35  | 28  | 23  | 43 | 32 | 26 | 21 | 27 | 21 | 18 | 21 | 17 | 15 | 16 | 13 | 11 |    |    | 9  |
| 10  | 44  | 32  | 25  | 20  | 40 | 30 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 | 15 | 12 | 10 |    |    | 8  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10313 | 10313 | 10313 |
| 5°  | 10342 | 10010 | 10002 |
| 10° | 10244 | 9739  | 9665  |
| 15° | 10109 | 9440  | 9307  |
| 20° | 9917  | 9106  | 8923  |
| 25° | 9679  | 8730  | 8525  |
| 30° | 9437  | 8391  | 8125  |
| 35° | 9165  | 8033  | 7800  |
| 40° | 8906  | 7706  | 7456  |
| 45° | 8618  | 7390  | 7172  |
| 50° | 8334  | 7077  | 6864  |
| 55° | 8018  | 6756  | 6582  |
| 60° | 7709  | 6428  | 6291  |
| 65° | 7392  | 6078  | 5953  |
| 70° | 6915  | 5685  | 5602  |
| 75° | 6311  | 5238  | 5242  |
| 80° | 5608  | 4784  | 4830  |
| 85° | 4908  | 4417  | 4535  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8618 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.9   | 1.1       |
| 10°-20°   | 259.1  | 3.3       |
| 20°-30°   | 387.5  | 4.9       |
| 30°-40°   | 462.6  | 5.8       |
| 40°-50°   | 484.0  | 6.1       |
| 50°-60°   | 454.2  | 5.7       |
| 60°-70°   | 379.4  | 4.8       |
| 70°-80°   | 271.3  | 3.4       |
| 80°-90°   | 164.5  | 2.1       |
| 90°-100°  | 156.1  | 2.0       |
| 100°-110° | 338.7  | 4.3       |
| 110°-120° | 697.1  | 8.8       |
| 120°-130° | 850.1  | 10.7      |
| 130°-140° | 890.5  | 11.2      |
| 140°-150° | 823.5  | 10.4      |
| 150°-160° | 662.1  | 8.3       |
| 160°-170° | 427.3  | 5.4       |
| 170°-180° | 147.2  | 1.9       |
| 0°-30°    | 737.5  | 9.3       |
| 0°-40°    | 1200.1 | 15.1      |
| 0°-60°    | 2138.3 | 26.9      |
| 0°-90°    | 2953.5 | 37.2      |
| 90°-120°  | 1191.8 | 15.0      |
| 90°-150°  | 3755.9 | 47.3      |
| 90°-180°  | 4993.0 | 62.8      |
| 0°-180°   | 7946.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 958  | 958   | 958  | 958   | 958  |      |
| 5°   | 959  | 957   | 951  | 959   | 958  | 91   |
| 15°  | 913  | 916   | 915  | 926   | 925  | 257  |
| 25°  | 824  | 835   | 838  | 852   | 852  | 380  |
| 35°  | 710  | 726   | 740  | 756   | 760  | 444  |
| 45°  | 580  | 605   | 631  | 651   | 660  | 447  |
| 55°  | 442  | 477   | 514  | 543   | 551  | 396  |
| 65°  | 306  | 346   | 392  | 424   | 434  | 302  |
| 75°  | 166  | 215   | 267  | 302   | 314  | 177  |
| 85°  | 51   | 103   | 159  | 194   | 205  | 53   |
| 90°  | 15   | 77    | 146  | 186   | 198  | 14   |
| 95°  | 82   | 75    | 139  | 179   | 190  | 93   |
| 105° | 351  | 389   | 330  | 156   | 168  | 372  |
| 115° | 649  | 668   | 716  | 753   | 766  | 641  |
| 125° | 910  | 919   | 954  | 978   | 988  | 814  |
| 135° | 1131 | 1137  | 1153 | 1175  | 1177 | 871  |
| 145° | 1304 | 1311  | 1313 | 1324  | 1328 | 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°     | 958.1 | 958.1 | 958.1 | 958.1 | 958.1 |
| 2.5°   | 963.3 | 960.2 | 951.8 | 960.2 | 959.2 |
| 5°     | 959.2 | 957.1 | 950.8 | 959.2 | 958.1 |
| 7.5°   | 951.8 | 951.8 | 945.6 | 956.0 | 955.0 |
| 10°    | 941.4 | 943.5 | 938.3 | 948.7 | 946.6 |
| 12.5°  | 928.9 | 932.0 | 928.9 | 938.3 | 936.2 |
| 15°    | 913.2 | 916.4 | 915.3 | 925.8 | 924.7 |
| 17.5°  | 894.4 | 900.7 | 899.7 | 909.1 | 907.0 |
| 20°    | 873.6 | 879.8 | 881.9 | 891.3 | 892.4 |
| 22.5°  | 851.7 | 857.9 | 861.0 | 873.6 | 872.5 |
| 25°    | 824.5 | 835.0 | 838.1 | 851.7 | 851.7 |
| 27.5°  | 798.4 | 809.9 | 816.2 | 827.6 | 828.7 |
| 30°    | 770.2 | 783.8 | 792.2 | 804.7 | 804.7 |
| 32.5°  | 738.9 | 754.6 | 766.1 | 779.6 | 782.8 |
| 35°    | 709.7 | 726.4 | 740.0 | 755.6 | 759.8 |
| 37.5°  | 678.4 | 697.2 | 712.8 | 730.6 | 733.7 |
| 40°    | 647.1 | 665.9 | 686.7 | 704.5 | 708.7 |
| 42.5°  | 612.6 | 636.7 | 658.6 | 678.4 | 684.7 |
| 45°    | 580.3 | 605.3 | 631.4 | 651.3 | 659.6 |
| 47.5°  | 545.9 | 574.0 | 603.3 | 625.2 | 631.4 |
| 50°    | 512.5 | 541.7 | 574.0 | 598.0 | 605.3 |
| 52.5°  | 477.0 | 508.3 | 544.8 | 569.9 | 579.2 |
| 55°    | 442.5 | 477.0 | 514.5 | 542.7 | 551.1 |
| 57.5°  | 409.1 | 444.6 | 485.3 | 513.5 | 522.9 |
| 60°    | 373.6 | 411.2 | 454.0 | 483.2 | 494.7 |
| 62.5°  | 340.2 | 378.9 | 424.8 | 454.0 | 464.4 |
| 65°    | 305.8 | 346.5 | 392.4 | 423.7 | 434.2 |
| 67.5°  | 271.4 | 314.2 | 360.1 | 394.5 | 402.9 |
| 70°    | 234.8 | 279.7 | 329.8 | 363.2 | 373.6 |
| 72.5°  | 201.4 | 246.3 | 298.5 | 332.9 | 343.4 |
| 75°    | 165.9 | 215.0 | 267.2 | 301.6 | 314.2 |
| 77.5°  | 135.7 | 184.7 | 236.9 | 273.4 | 282.8 |
| 80°    | 103.3 | 154.5 | 208.7 | 244.2 | 254.7 |
| 82.5°  | 75.1  | 127.3 | 182.6 | 218.1 | 228.6 |
| 85°    | 51.1  | 103.3 | 158.6 | 194.1 | 204.6 |
| 87.5°  | 31.3  | 83.5  | 136.7 | 172.2 | 182.6 |
| 90°    | 14.8  | 77.4  | 145.5 | 185.6 | 198.4 |
| 92.5°  | 39.0  | 77.0  | 139.5 | 182.0 | 192.5 |
| 95°    | 81.7  | 75.2  | 139.0 | 179.4 | 189.8 |
| 97.5°  | 138.2 | 143.5 | 133.9 | 174.4 | 186.0 |
| 100°   | 203.9 | 260.3 | 128.8 | 168.3 | 179.8 |
| 102.5° | 278.8 | 323.0 | 169.7 | 161.0 | 173.7 |
| 105°   | 351.3 | 389.1 | 330.4 | 155.8 | 167.5 |
| 107.5° | 427.4 | 459.7 | 519.7 | 370.7 | 229.3 |
| 110°   | 503.5 | 531.4 | 585.9 | 575.0 | 418.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 577.2  | 599.8  | 652.1  | 688.6  | 695.7  |
| 115°   | 648.6  | 668.0  | 716.0  | 752.6  | 765.5  |
| 117.5° | 720.0  | 736.4  | 777.7  | 811.9  | 821.4  |
| 120°   | 784.6  | 800.1  | 838.0  | 871.2  | 878.5  |
| 122.5° | 851.3  | 861.5  | 898.4  | 927.1  | 935.6  |
| 125°   | 910.1  | 919.3  | 954.2  | 978.4  | 988.0  |
| 127.5° | 969.9  | 978.1  | 1010.0 | 1034.3 | 1039.3 |
| 130°   | 1025.2 | 1033.4 | 1058.9 | 1083.3 | 1087.3 |
| 132.5° | 1077.1 | 1086.3 | 1105.4 | 1128.8 | 1132.6 |
| 135°   | 1131.2 | 1137.0 | 1153.1 | 1175.4 | 1177.1 |
| 137.5° | 1177.2 | 1185.4 | 1195.0 | 1217.4 | 1220.4 |
| 140°   | 1222.2 | 1229.1 | 1235.7 | 1255.9 | 1258.8 |
| 142.5° | 1264.8 | 1270.7 | 1274.1 | 1291.2 | 1292.9 |
| 145°   | 1303.9 | 1311.0 | 1313.3 | 1323.9 | 1328.1 |
| 147.5° | 1340.9 | 1346.6 | 1348.9 | 1354.3 | 1352.8 |
| 150°   | 1375.4 | 1378.9 | 1381.2 | 1383.5 | 1382.1 |
| 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)