

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: P1011946

Luminaire Tested: S123DIP-B775D1195UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1011946  
REPORT IS A COMBINATION OF REPORTS P990285 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B775D1195UB27-4F0-XX-W2A-F  
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

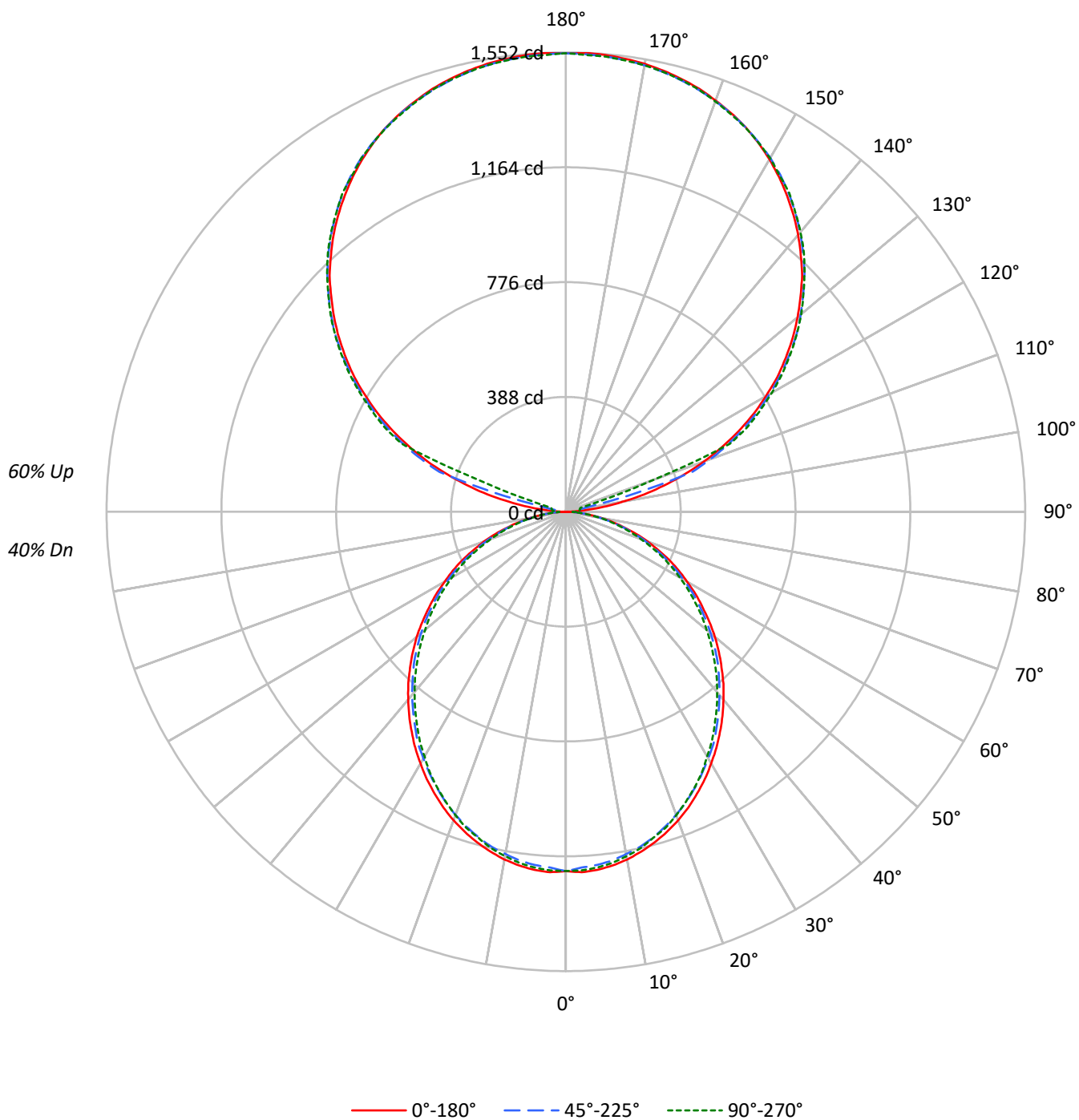
Lumens per Lamp: N/A  
Luminaire Lumens: 7885.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 70.9  
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 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 47 | 47 | 40 |
| 1   | 96  | 91  | 87  | 84  | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 54 | 53 | 51 | 41 | 40 | 40 | 40 | 40 | 34 |
| 2   | 87  | 80  | 74  | 68  | 79 | 73 | 67 | 63 | 60 | 56 | 53 | 48 | 45 | 43 | 36 | 35 | 33 | 33 | 33 | 28 |
| 3   | 79  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 48 | 44 | 42 | 39 | 36 | 32 | 30 | 28 | 28 | 28 | 24 |
| 4   | 72  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 37 | 34 | 31 | 29 | 26 | 24 | 24 | 24 | 20 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 42 | 36 | 32 | 34 | 30 | 27 | 26 | 23 | 21 | 21 | 21 | 18 |
| 6   | 61  | 49  | 41  | 36  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 24 | 21 | 19 | 19 | 19 | 16 |
| 7   | 56  | 44  | 37  | 31  | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 27 | 24 | 21 | 21 | 19 | 17 | 17 | 17 | 14 |
| 8   | 52  | 40  | 33  | 27  | 48 | 37 | 30 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 20 | 17 | 15 | 15 | 15 | 12 |
| 9   | 49  | 37  | 29  | 24  | 44 | 34 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 16 | 18 | 15 | 13 | 13 | 13 | 11 |
| 10  | 45  | 34  | 26  | 22  | 41 | 31 | 25 | 20 | 26 | 21 | 18 | 21 | 17 | 15 | 17 | 14 | 12 | 12 | 12 | 10 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13065 | 13065 | 13065 |
| 5°  | 13097 | 12615 | 12595 |
| 10° | 12981 | 12187 | 12063 |
| 15° | 12801 | 11744 | 11481 |
| 20° | 12593 | 11250 | 10906 |
| 25° | 12326 | 10730 | 10290 |
| 30° | 12033 | 10192 | 9643  |
| 35° | 11726 | 9642  | 9000  |
| 40° | 11405 | 9065  | 8367  |
| 45° | 11051 | 8502  | 7706  |
| 50° | 10692 | 7875  | 7042  |
| 55° | 10230 | 7222  | 6369  |
| 60° | 9756  | 6501  | 5654  |
| 65° | 9309  | 5723  | 4908  |
| 70° | 8667  | 4858  | 4038  |
| 75° | 7741  | 3846  | 3135  |
| 80° | 6688  | 2702  | 2217  |
| 85° | 5216  | 1454  | 1110  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11051 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 114.4  | 1.5       |
| 10°-20°   | 323.1  | 4.1       |
| 20°-30°   | 477.2  | 6.1       |
| 30°-40°   | 557.3  | 7.1       |
| 40°-50°   | 560.3  | 7.1       |
| 50°-60°   | 492.2  | 6.2       |
| 60°-70°   | 366.6  | 4.6       |
| 70°-80°   | 208.6  | 2.6       |
| 80°-90°   | 62.4   | 0.8       |
| 90°-100°  | 54.6   | 0.7       |
| 100°-110° | 264.1  | 3.3       |
| 110°-120° | 647.3  | 8.2       |
| 120°-130° | 821.7  | 10.4      |
| 130°-140° | 877.8  | 11.1      |
| 140°-150° | 820.8  | 10.4      |
| 150°-160° | 662.1  | 8.4       |
| 160°-170° | 427.3  | 5.4       |
| 170°-180° | 147.2  | 1.9       |
| 0°-30°    | 914.7  | 11.6      |
| 0°-40°    | 1472.1 | 18.7      |
| 0°-60°    | 2524.5 | 32.0      |
| 0°-90°    | 3162.1 | 40.1      |
| 90°-120°  | 966.0  | 12.3      |
| 90°-150°  | 3486.3 | 44.2      |
| 90°-180°  | 4723.0 | 59.9      |
| 0°-180°   | 7885.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1214 | 1214  | 1214 | 1214  | 1214 |      |
| 5°   | 1215 | 1210  | 1198 | 1209  | 1206 | 115  |
| 15°  | 1156 | 1152  | 1139 | 1147  | 1141 | 326  |
| 25°  | 1050 | 1044  | 1030 | 1031  | 1028 | 484  |
| 35°  | 908  | 902   | 888  | 882   | 877  | 568  |
| 45°  | 744  | 740   | 726  | 714   | 709  | 574  |
| 55°  | 565  | 564   | 550  | 538   | 533  | 506  |
| 65°  | 385  | 380   | 370  | 361   | 358  | 380  |
| 75°  | 204  | 199   | 196  | 191   | 188  | 217  |
| 85°  | 54   | 52    | 52   | 50    | 50   | 58   |
| 90°  | 1    | 13    | 28   | 32    | 34   | 8    |
| 95°  | 70   | 23    | 36   | 44    | 44   | 84   |
| 105° | 343  | 356   | 252  | 48    | 51   | 364  |
| 115° | 643  | 650   | 661  | 672   | 677  | 635  |
| 125° | 907  | 916   | 921  | 923   | 925  | 810  |
| 135° | 1129 | 1136  | 1141 | 1144  | 1141 | 869  |
| 145° | 1303 | 1311  | 1313 | 1316  | 1316 | 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°     | 1213.8 | 1213.8 | 1213.8 | 1213.8 | 1213.8 |
| 2.5°   | 1219.0 | 1214.8 | 1203.4 | 1213.8 | 1212.8 |
| 5°     | 1214.8 | 1209.6 | 1198.2 | 1208.6 | 1206.5 |
| 7.5°   | 1205.5 | 1200.2 | 1188.8 | 1198.2 | 1197.1 |
| 10°    | 1192.9 | 1187.7 | 1174.1 | 1183.5 | 1181.5 |
| 12.5°  | 1176.2 | 1172.1 | 1159.5 | 1165.8 | 1164.8 |
| 15°    | 1156.4 | 1152.2 | 1138.7 | 1147.0 | 1140.7 |
| 17.5°  | 1134.5 | 1129.3 | 1115.7 | 1122.0 | 1119.9 |
| 20°    | 1109.4 | 1103.2 | 1089.6 | 1093.8 | 1090.7 |
| 22.5°  | 1081.3 | 1075.0 | 1061.4 | 1064.6 | 1060.4 |
| 25°    | 1049.9 | 1043.7 | 1030.1 | 1031.2 | 1028.0 |
| 27.5°  | 1017.6 | 1011.3 | 996.7  | 997.8  | 994.6  |
| 30°    | 982.1  | 976.9  | 962.3  | 962.3  | 955.0  |
| 32.5°  | 946.6  | 939.3  | 928.9  | 921.6  | 918.4  |
| 35°    | 908.0  | 901.7  | 888.2  | 881.9  | 876.7  |
| 37.5°  | 869.4  | 861.0  | 847.5  | 840.2  | 837.0  |
| 40°    | 828.7  | 822.4  | 807.8  | 799.5  | 795.3  |
| 42.5°  | 788.0  | 780.7  | 766.1  | 757.7  | 753.5  |
| 45°    | 744.1  | 740.0  | 726.4  | 713.9  | 708.7  |
| 47.5°  | 701.4  | 695.1  | 682.6  | 670.0  | 665.9  |
| 50°    | 657.5  | 652.3  | 638.7  | 627.3  | 621.0  |
| 52.5°  | 611.6  | 608.5  | 593.9  | 584.5  | 578.2  |
| 55°    | 564.6  | 563.6  | 550.0  | 538.5  | 533.3  |
| 57.5°  | 520.8  | 516.6  | 506.2  | 495.8  | 489.5  |
| 60°    | 472.8  | 471.7  | 459.2  | 449.8  | 444.6  |
| 62.5°  | 430.0  | 426.9  | 414.3  | 404.9  | 401.8  |
| 65°    | 385.1  | 379.9  | 369.5  | 361.1  | 358.0  |
| 67.5°  | 337.1  | 332.9  | 324.6  | 317.3  | 313.1  |
| 70°    | 294.3  | 288.1  | 281.8  | 274.5  | 269.3  |
| 72.5°  | 249.4  | 245.3  | 238.0  | 231.7  | 229.6  |
| 75°    | 203.5  | 199.3  | 196.2  | 191.0  | 187.9  |
| 77.5°  | 162.8  | 160.7  | 156.6  | 152.4  | 152.4  |
| 80°    | 123.2  | 120.0  | 117.9  | 116.9  | 116.9  |
| 82.5°  | 84.5   | 84.5   | 84.5   | 82.5   | 81.4   |
| 85°    | 54.3   | 52.2   | 52.2   | 50.1   | 50.1   |
| 87.5°  | 27.1   | 24.0   | 23.0   | 21.9   | 21.9   |
| 90°    | 1.2    | 12.7   | 27.6   | 32.2   | 34.5   |
| 92.5°  | 26.5   | 19.6   | 29.9   | 38.0   | 39.1   |
| 95°    | 70.2   | 23.0   | 35.7   | 43.7   | 43.7   |
| 97.5°  | 127.8  | 95.5   | 36.8   | 46.0   | 47.2   |
| 100°   | 194.5  | 217.5  | 38.0   | 47.2   | 48.3   |
| 102.5° | 270.5  | 285.4  | 85.2   | 47.2   | 49.5   |
| 105°   | 343.0  | 355.7  | 252.1  | 48.3   | 50.6   |
| 107.5° | 420.1  | 430.5  | 447.7  | 270.5  | 119.7  |
| 110°   | 497.2  | 506.4  | 519.1  | 481.1  | 316.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 570.9  | 578.9  | 591.6  | 602.0  | 599.7  |
| 115°   | 643.4  | 650.3  | 660.7  | 672.2  | 676.8  |
| 117.5° | 714.8  | 722.8  | 728.6  | 737.8  | 738.9  |
| 120°   | 780.4  | 790.7  | 794.2  | 803.4  | 803.4  |
| 122.5° | 847.1  | 855.2  | 859.8  | 865.5  | 866.7  |
| 125°   | 907.0  | 916.2  | 920.8  | 923.1  | 925.4  |
| 127.5° | 966.8  | 976.0  | 981.8  | 985.2  | 982.9  |
| 130°   | 1022.1 | 1031.3 | 1035.9 | 1040.5 | 1038.2 |
| 132.5° | 1075.0 | 1084.2 | 1087.7 | 1092.3 | 1088.8 |
| 135°   | 1129.1 | 1136.0 | 1140.6 | 1144.1 | 1140.6 |
| 137.5° | 1175.1 | 1184.4 | 1186.7 | 1192.4 | 1190.1 |
| 140°   | 1221.2 | 1228.1 | 1231.5 | 1236.1 | 1233.8 |
| 142.5° | 1263.8 | 1270.7 | 1274.1 | 1277.6 | 1274.1 |
| 145°   | 1302.9 | 1311.0 | 1313.3 | 1315.6 | 1315.6 |
| 147.5° | 1340.9 | 1346.6 | 1348.9 | 1351.2 | 1345.5 |
| 150°   | 1375.4 | 1378.9 | 1381.2 | 1383.5 | 1380.0 |
| 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)