

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: P1013160

Luminaire Tested: S124DIP-B795D1205UB2750-4F0-XX-W2A-F\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013160  
REPORT IS A COMBINATION OF REPORTS P996401 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B795D1205UB2750-4F0-XX-W2A-F\_4000K  
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

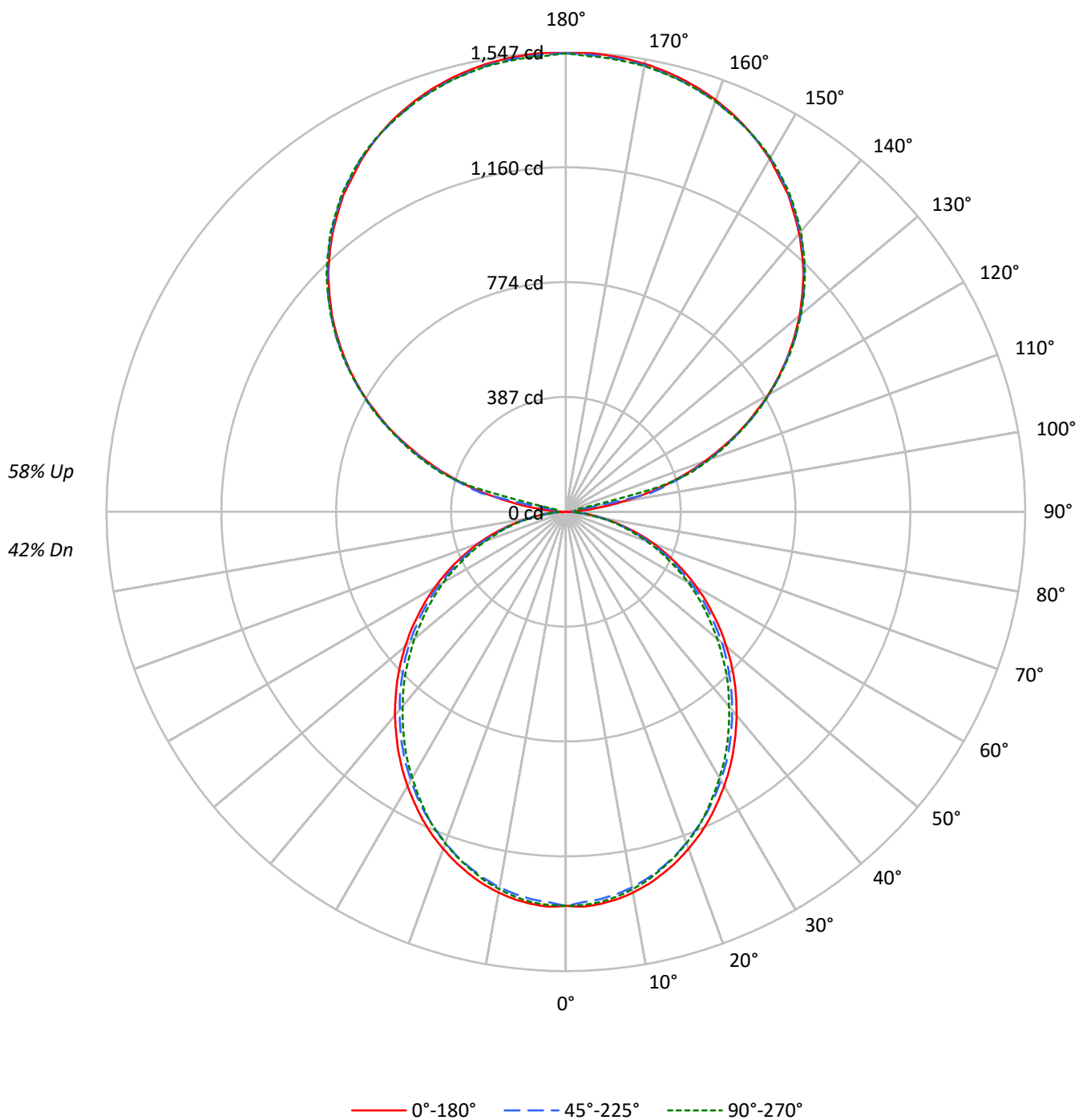
Lumens per Lamp: N/A  
Luminaire Lumens: 8186.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 |    |    |    | 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 | 63 | 63 | 63 | 48 | 48 | 48 |
| 1   | 96  | 92  | 88  | 84  | 87 | 84 | 80 | 77 | 69 | 67 | 64 | 55 | 54 | 52 | 43 | 42 | 41 |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 64 | 60 | 57 | 53 | 49 | 46 | 44 | 38 | 36 | 34 |
| 3   | 80  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 49 | 45 | 43 | 40 | 37 | 33 | 31 | 29 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 35 | 32 | 30 | 27 | 25 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 38 | 42 | 37 | 33 | 34 | 30 | 27 | 27 | 24 | 22 |
| 6   | 61  | 50  | 42  | 36  | 56 | 46 | 38 | 33 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 |
| 8   | 53  | 40  | 33  | 28  | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 20 | 17 | 15 |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 27 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 26 | 21 | 18 | 22 | 18 | 15 | 17 | 15 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10821 | 10821 | 10821 |
| 5°  | 10830 | 10510 | 10523 |
| 10° | 10738 | 10218 | 10146 |
| 15° | 10584 | 9871  | 9722  |
| 20° | 10387 | 9495  | 9283  |
| 25° | 10166 | 9099  | 8810  |
| 30° | 9899  | 8671  | 8291  |
| 35° | 9623  | 8232  | 7789  |
| 40° | 9335  | 7759  | 7255  |
| 45° | 9032  | 7286  | 6756  |
| 50° | 8697  | 6827  | 6204  |
| 55° | 8334  | 6291  | 5655  |
| 60° | 7961  | 5703  | 5084  |
| 65° | 7536  | 5096  | 4439  |
| 70° | 7045  | 4367  | 3750  |
| 75° | 6311  | 3519  | 3003  |
| 80° | 5380  | 2545  | 2113  |
| 85° | 4177  | 1417  | 1136  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9032 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.1  | 1.5       |
| 10°-20°   | 352.4  | 4.3       |
| 20°-30°   | 518.6  | 6.3       |
| 30°-40°   | 602.8  | 7.4       |
| 40°-50°   | 602.8  | 7.4       |
| 50°-60°   | 527.2  | 6.4       |
| 60°-70°   | 391.4  | 4.8       |
| 70°-80°   | 222.1  | 2.7       |
| 80°-90°   | 66.8   | 0.8       |
| 90°-100°  | 51.2   | 0.6       |
| 100°-110° | 337.5  | 4.1       |
| 110°-120° | 644.4  | 7.9       |
| 120°-130° | 818.1  | 10.0      |
| 130°-140° | 875.1  | 10.7      |
| 140°-150° | 818.3  | 10.0      |
| 150°-160° | 659.9  | 8.1       |
| 160°-170° | 425.6  | 5.2       |
| 170°-180° | 146.7  | 1.8       |
| 0°-30°    | 996.1  | 12.2      |
| 0°-40°    | 1598.9 | 19.5      |
| 0°-60°    | 2728.9 | 33.3      |
| 0°-90°    | 3409.2 | 41.6      |
| 90°-120°  | 1033.1 | 12.6      |
| 90°-150°  | 3544.6 | 43.3      |
| 90°-180°  | 4777.0 | 58.4      |
| 0°-180°   | 8186.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1327 | 1327  | 1327 | 1327  | 1327 |      |
| 5°   | 1326 | 1322  | 1310 | 1322  | 1320 | 126  |
| 15°  | 1262 | 1258  | 1242 | 1248  | 1245 | 356  |
| 25°  | 1143 | 1136  | 1121 | 1122  | 1118 | 526  |
| 35°  | 984  | 976   | 961  | 954   | 948  | 615  |
| 45°  | 803  | 795   | 778  | 767   | 763  | 619  |
| 55°  | 607  | 604   | 589  | 576   | 570  | 544  |
| 65°  | 412  | 406   | 396  | 385   | 380  | 407  |
| 75°  | 219  | 214   | 208  | 204   | 203  | 232  |
| 85°  | 57   | 57    | 55   | 55    | 54   | 62   |
| 90°  | 4    | 16    | 25   | 32    | 35   | 7    |
| 95°  | 64   | 24    | 25   | 32    | 34   | 78   |
| 105° | 348  | 354   | 360  | 371   | 329  | 364  |
| 115° | 649  | 652   | 651  | 654   | 654  | 639  |
| 125° | 912  | 917   | 914  | 918   | 919  | 815  |
| 135° | 1132 | 1130  | 1135 | 1137  | 1140 | 872  |
| 145° | 1305 | 1308  | 1308 | 1309  | 1312 | 815  |
| 155° | 1431 | 1432  | 1428 | 1433  | 1429 | 660  |
| 165° | 1509 | 1503  | 1503 | 1512  | 1502 | 426  |
| 175° | 1544 | 1537  | 1538 | 1548  | 1534 | 147  |
| 180° | 1544 | 1544  | 1544 | 1544  | 1544 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |
| 2.5°   | 1331.3 | 1328.1 | 1316.4 | 1327.0 | 1325.9 |
| 5°     | 1325.9 | 1321.7 | 1310.0 | 1321.7 | 1319.6 |
| 7.5°   | 1316.4 | 1312.1 | 1299.4 | 1308.9 | 1307.9 |
| 10°    | 1302.5 | 1298.3 | 1284.5 | 1293.0 | 1290.8 |
| 12.5°  | 1284.5 | 1280.2 | 1265.3 | 1274.9 | 1271.7 |
| 15°    | 1262.1 | 1257.9 | 1241.9 | 1248.3 | 1245.1 |
| 17.5°  | 1236.6 | 1231.3 | 1216.4 | 1220.7 | 1218.5 |
| 20°    | 1207.9 | 1202.6 | 1186.6 | 1189.8 | 1187.7 |
| 22.5°  | 1177.1 | 1169.6 | 1153.7 | 1160.1 | 1155.8 |
| 25°    | 1143.0 | 1135.6 | 1120.7 | 1121.8 | 1117.5 |
| 27.5°  | 1104.8 | 1097.3 | 1083.5 | 1081.4 | 1076.1 |
| 30°    | 1066.5 | 1058.0 | 1044.2 | 1039.9 | 1034.6 |
| 32.5°  | 1026.1 | 1018.6 | 1003.8 | 998.4  | 993.1  |
| 35°    | 983.6  | 976.1  | 961.2  | 953.8  | 948.5  |
| 37.5°  | 938.9  | 932.5  | 916.6  | 909.1  | 901.7  |
| 40°    | 895.3  | 886.8  | 870.8  | 860.2  | 854.9  |
| 42.5°  | 848.5  | 844.3  | 826.2  | 813.4  | 810.2  |
| 45°    | 802.8  | 795.3  | 778.3  | 766.6  | 763.4  |
| 47.5°  | 754.9  | 749.6  | 733.7  | 720.9  | 712.4  |
| 50°    | 706.0  | 701.8  | 686.9  | 672.0  | 665.6  |
| 52.5°  | 658.2  | 652.9  | 636.9  | 624.2  | 615.7  |
| 55°    | 607.1  | 604.0  | 589.1  | 576.3  | 569.9  |
| 57.5°  | 559.3  | 556.1  | 541.2  | 528.5  | 522.1  |
| 60°    | 509.3  | 504.0  | 490.2  | 480.6  | 475.3  |
| 62.5°  | 460.4  | 456.2  | 441.3  | 432.8  | 427.4  |
| 65°    | 411.5  | 406.2  | 395.5  | 384.9  | 379.6  |
| 67.5°  | 361.5  | 357.3  | 346.6  | 336.0  | 334.9  |
| 70°    | 315.8  | 308.4  | 299.9  | 291.3  | 288.2  |
| 72.5°  | 266.9  | 259.4  | 253.1  | 246.7  | 243.5  |
| 75°    | 219.0  | 213.7  | 208.4  | 204.2  | 203.1  |
| 77.5°  | 172.3  | 170.1  | 164.8  | 163.7  | 160.6  |
| 80°    | 130.8  | 127.6  | 125.5  | 123.3  | 122.3  |
| 82.5°  | 90.4   | 89.3   | 89.3   | 88.3   | 87.2   |
| 85°    | 57.4   | 57.4   | 55.3   | 55.3   | 54.2   |
| 87.5°  | 27.6   | 26.6   | 25.5   | 25.5   | 25.5   |
| 90°    | 3.5    | 16.2   | 25.4   | 32.3   | 34.6   |
| 92.5°  | 17.3   | 15.0   | 24.2   | 31.2   | 31.2   |
| 95°    | 63.5   | 24.2   | 25.4   | 32.3   | 33.5   |
| 97.5°  | 121.2  | 146.6  | 25.4   | 31.2   | 32.3   |
| 100°   | 189.4  | 210.1  | 50.8   | 31.2   | 32.3   |
| 102.5° | 265.6  | 279.4  | 293.3  | 33.5   | 33.5   |
| 105°   | 347.5  | 354.5  | 360.2  | 370.6  | 329.1  |
| 107.5° | 422.6  | 426.1  | 434.1  | 439.9  | 444.5  |
| 110°   | 498.8  | 502.3  | 509.2  | 511.5  | 515.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 572.7  | 579.6  | 581.9  | 580.8  | 585.4  |
| 115°   | 648.9  | 652.4  | 651.2  | 653.5  | 653.5  |
| 117.5° | 717.0  | 721.6  | 725.1  | 723.9  | 723.9  |
| 120°   | 786.3  | 790.9  | 789.8  | 792.1  | 789.8  |
| 122.5° | 851.0  | 853.3  | 855.6  | 856.7  | 854.4  |
| 125°   | 912.1  | 916.8  | 914.5  | 917.9  | 919.1  |
| 127.5° | 971.0  | 972.2  | 978.0  | 976.8  | 975.6  |
| 130°   | 1027.6 | 1028.8 | 1032.2 | 1033.4 | 1033.4 |
| 132.5° | 1079.6 | 1081.9 | 1086.5 | 1087.6 | 1086.5 |
| 135°   | 1131.5 | 1130.4 | 1135.0 | 1137.3 | 1139.6 |
| 137.5° | 1177.7 | 1177.7 | 1183.5 | 1185.8 | 1184.6 |
| 140°   | 1222.7 | 1225.0 | 1227.4 | 1230.8 | 1232.0 |
| 142.5° | 1263.1 | 1267.8 | 1268.9 | 1271.2 | 1271.2 |
| 145°   | 1304.7 | 1308.2 | 1308.2 | 1309.3 | 1311.6 |
| 147.5° | 1337.0 | 1344.0 | 1342.8 | 1344.0 | 1345.1 |
| 150°   | 1372.8 | 1377.5 | 1376.3 | 1376.3 | 1377.5 |
| 152.5° | 1402.9 | 1406.3 | 1404.0 | 1406.3 | 1405.2 |
| 155°   | 1430.6 | 1431.7 | 1428.3 | 1432.9 | 1429.4 |
| 157.5° | 1454.8 | 1454.8 | 1450.2 | 1456.0 | 1450.2 |
| 160°   | 1475.6 | 1472.1 | 1471.0 | 1477.9 | 1471.0 |
| 162.5° | 1494.1 | 1489.5 | 1488.3 | 1495.2 | 1487.1 |
| 165°   | 1509.1 | 1503.3 | 1503.3 | 1512.5 | 1502.2 |
| 167.5° | 1521.8 | 1516.0 | 1514.9 | 1525.2 | 1513.7 |
| 170°   | 1532.2 | 1525.2 | 1526.4 | 1535.6 | 1524.1 |
| 172.5° | 1539.1 | 1532.2 | 1533.3 | 1542.6 | 1529.9 |
| 175°   | 1543.7 | 1536.8 | 1537.9 | 1548.3 | 1534.5 |
| 177.5° | 1547.2 | 1539.1 | 1541.4 | 1550.6 | 1536.8 |
| 180°   | 1543.7 | 1543.7 | 1543.7 | 1543.7 | 1543.7 |

(END OF REPORT)