

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: P1025738

Luminaire Tested: S124DIP-B795D1035UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1025738  
REPORT IS A COMBINATION OF REPORTS P996368 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B795D1035UB40-4F0-XX-W2A-F1  
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

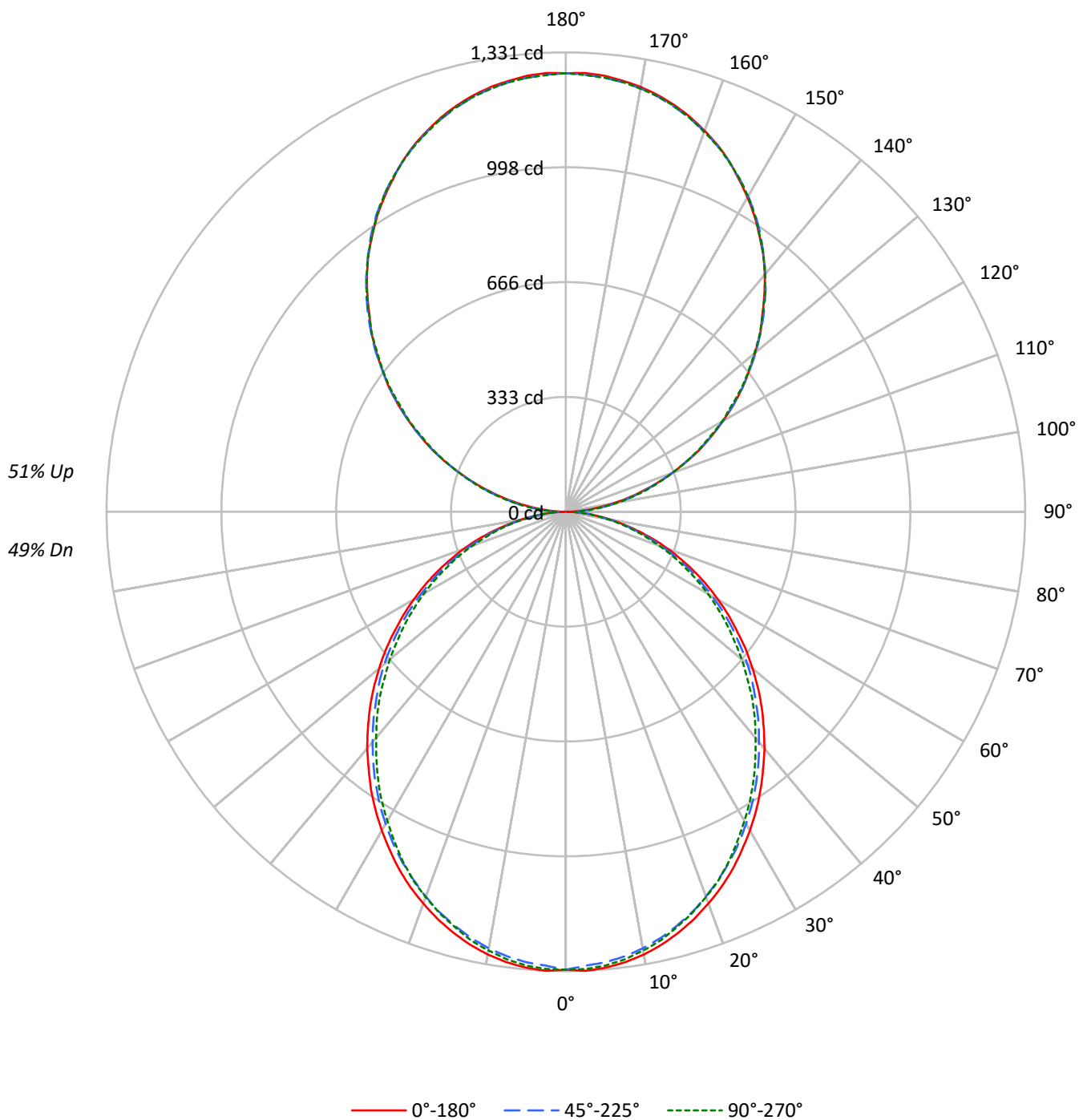
Lumens per Lamp: N/A  
Luminaire Lumens: 6934.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 64.4  
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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 55 | 55 | 55 |
| 1   | 98  | 93  | 89  | 86  | 90 | 86 | 83 | 80 | 73 | 70 | 68 | 60 | 59 | 57 | 49 | 48 | 47 |
| 2   | 89  | 81  | 75  | 70  | 82 | 75 | 70 | 65 | 64 | 60 | 56 | 53 | 50 | 48 | 43 | 41 | 39 |
| 3   | 81  | 72  | 64  | 58  | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 36 | 33 |
| 4   | 74  | 63  | 55  | 49  | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 34 | 34 | 31 | 29 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 31 | 28 | 25 |
| 6   | 63  | 51  | 42  | 37  | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 29 | 26 | 28 | 25 | 22 |
| 7   | 58  | 46  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 |
| 8   | 54  | 41  | 34  | 28  | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 18 | 16 |
| 10  | 47  | 35  | 27  | 23  | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 |

**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  | 1.8       |
| 10°-20°   | 352.4  | 5.1       |
| 20°-30°   | 518.6  | 7.5       |
| 30°-40°   | 602.8  | 8.7       |
| 40°-50°   | 602.8  | 8.7       |
| 50°-60°   | 527.2  | 7.6       |
| 60°-70°   | 391.4  | 5.6       |
| 70°-80°   | 222.1  | 3.2       |
| 80°-90°   | 66.3   | 1.0       |
| 90°-100°  | 82.8   | 1.2       |
| 100°-110° | 248.1  | 3.6       |
| 110°-120° | 421.4  | 6.1       |
| 120°-130° | 555.8  | 8.0       |
| 130°-140° | 624.2  | 9.0       |
| 140°-150° | 613.5  | 8.8       |
| 150°-160° | 516.0  | 7.4       |
| 160°-170° | 343.3  | 5.0       |
| 170°-180° | 120.2  | 1.7       |
| 0°-30°    | 996.1  | 14.4      |
| 0°-40°    | 1598.9 | 23.1      |
| 0°-60°    | 2728.9 | 39.4      |
| 0°-90°    | 3408.7 | 49.2      |
| 90°-120°  | 752.3  | 10.8      |
| 90°-150°  | 2545.8 | 36.7      |
| 90°-180°  | 3525.0 | 50.8      |
| 0°-180°   | 6934.0 | 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°  | 3    | 14    | 22   | 28    | 30   | 8    |
| 95°  | 59   | 68    | 75   | 78    | 78   | 64   |
| 105° | 229  | 230   | 234  | 237   | 240  | 243  |
| 115° | 428  | 428   | 426  | 426   | 424  | 423  |
| 125° | 624  | 624   | 623  | 621   | 619  | 556  |
| 135° | 805  | 811   | 811  | 809   | 806  | 623  |
| 145° | 978  | 982   | 983  | 982   | 979  | 612  |
| 155° | 1120 | 1120  | 1119 | 1123  | 1119 | 516  |
| 165° | 1219 | 1216  | 1214 | 1220  | 1216 | 344  |
| 175° | 1269 | 1264  | 1263 | 1270  | 1263 | 120  |
| 180° | 1270 | 1270  | 1270 | 1270  | 1270 |      |

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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°    | 2.9    | 13.8   | 21.6   | 27.5   | 29.5   |
| 92.5°  | 25.5   | 38.3   | 43.2   | 46.2   | 47.2   |
| 95°    | 59.0   | 67.8   | 74.7   | 77.6   | 77.6   |
| 97.5°  | 94.3   | 102.2  | 110.1  | 114.0  | 114.0  |
| 100°   | 137.6  | 141.5  | 150.3  | 152.3  | 152.3  |
| 102.5° | 182.8  | 183.8  | 191.6  | 194.6  | 195.5  |
| 105°   | 229.0  | 229.9  | 233.9  | 236.8  | 239.8  |
| 107.5° | 277.1  | 278.1  | 279.1  | 283.0  | 282.0  |
| 110°   | 326.2  | 328.2  | 327.2  | 325.3  | 328.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 377.3  | 377.3  | 375.4  | 375.4  | 375.4  |
| 115°   | 428.4  | 428.4  | 426.5  | 425.5  | 424.5  |
| 117.5° | 476.6  | 476.6  | 475.6  | 472.6  | 469.7  |
| 120°   | 524.7  | 528.7  | 525.7  | 520.8  | 522.8  |
| 122.5° | 574.8  | 575.8  | 574.8  | 571.9  | 567.0  |
| 125°   | 624.0  | 624.0  | 623.0  | 621.0  | 619.1  |
| 127.5° | 668.2  | 671.1  | 669.2  | 667.2  | 666.2  |
| 130°   | 715.4  | 718.3  | 718.3  | 716.3  | 712.4  |
| 132.5° | 763.5  | 765.5  | 764.5  | 762.5  | 761.5  |
| 135°   | 804.8  | 810.7  | 810.7  | 808.7  | 805.8  |
| 137.5° | 851.0  | 853.9  | 855.9  | 852.9  | 853.9  |
| 140°   | 897.1  | 899.1  | 899.1  | 898.1  | 897.1  |
| 142.5° | 939.4  | 941.4  | 940.4  | 940.4  | 940.4  |
| 145°   | 977.7  | 981.6  | 982.6  | 981.6  | 978.7  |
| 147.5° | 1017.0 | 1021.9 | 1021.0 | 1020.0 | 1019.0 |
| 150°   | 1052.4 | 1056.3 | 1056.3 | 1056.3 | 1055.3 |
| 152.5° | 1085.8 | 1087.8 | 1088.8 | 1091.7 | 1088.8 |
| 155°   | 1120.2 | 1120.2 | 1119.2 | 1123.1 | 1119.2 |
| 157.5° | 1149.7 | 1147.7 | 1147.7 | 1150.7 | 1147.7 |
| 160°   | 1175.2 | 1174.2 | 1173.3 | 1176.2 | 1171.3 |
| 162.5° | 1198.8 | 1195.9 | 1194.9 | 1200.8 | 1195.9 |
| 165°   | 1219.4 | 1216.5 | 1214.5 | 1220.4 | 1216.5 |
| 167.5° | 1236.1 | 1232.2 | 1232.2 | 1238.1 | 1232.2 |
| 170°   | 1249.9 | 1245.0 | 1246.0 | 1251.9 | 1245.0 |
| 172.5° | 1259.7 | 1255.8 | 1255.8 | 1262.7 | 1255.8 |
| 175°   | 1268.6 | 1263.7 | 1262.7 | 1269.6 | 1262.7 |
| 177.5° | 1272.5 | 1267.6 | 1267.6 | 1274.5 | 1266.6 |
| 180°   | 1270.5 | 1270.5 | 1270.5 | 1270.5 | 1270.5 |

(END OF REPORT)