

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: P1013143

Luminaire Tested: S124DIP-B795D1035UB2750-4F0-XX-W2A-F\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1013143  
REPORT IS A COMBINATION OF REPORTS P996339 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DIP-B795D1035UB2750-4F0-XX-W2A-F\_3000K  
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

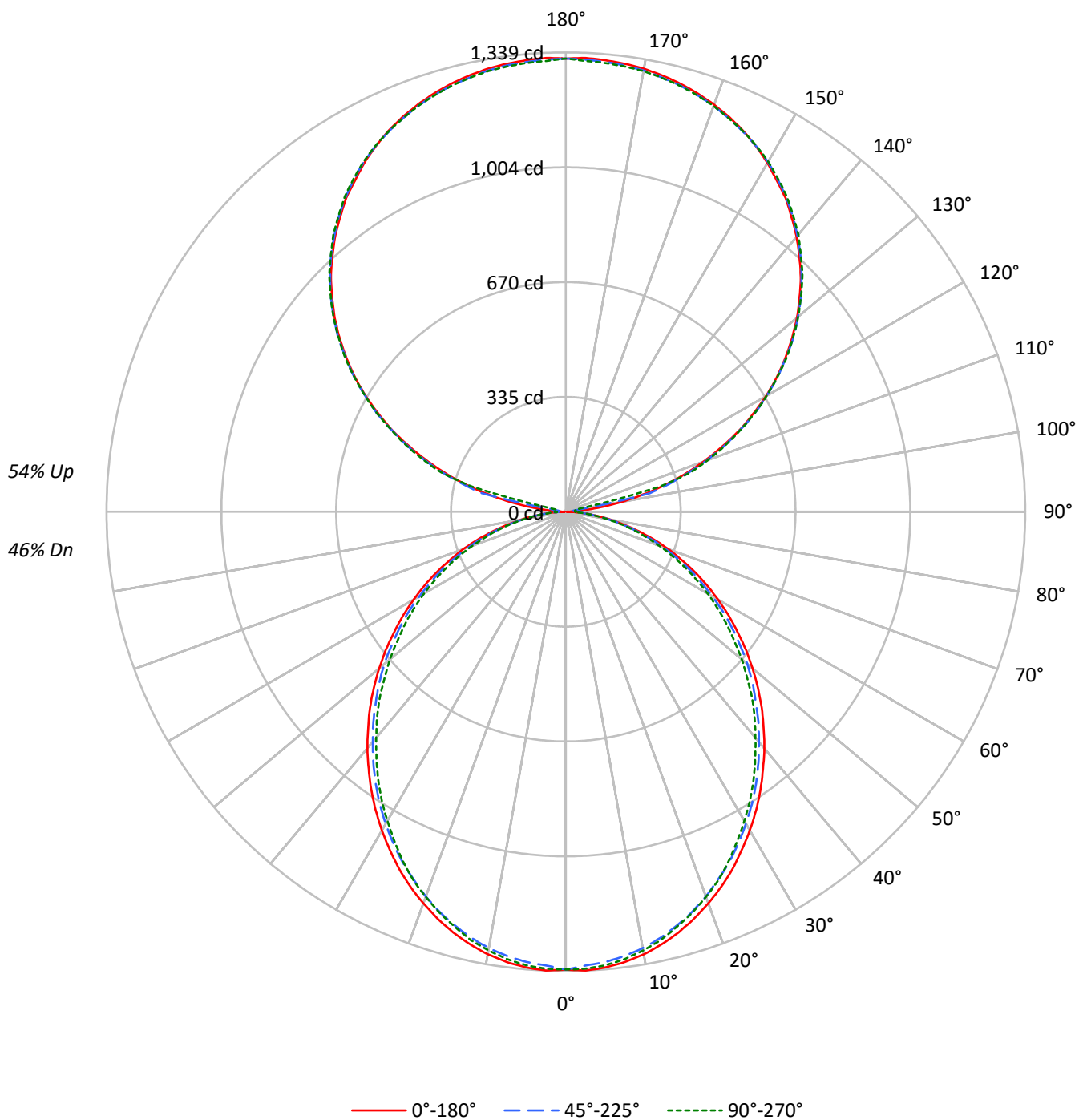
Lumens per Lamp: N/A  
Luminaire Lumens: 7516.0 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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

TEST NUMBER: P1013143

CATALOG NUMBER: S124DIP-B795D1035UB2750-4F0-XX-W2A-F\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1013143

CATALOG NUMBER: S124DIP-B795D1035UB2750-4F0-XX-W2A-F\_3000K

**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 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 |
| 1   | 97  | 92  | 89  | 85  | 89 | 85 | 82 | 79 | 71 | 68 | 66 | 58 | 56 | 55 | 46 | 45 | 44 |
| 2   | 88  | 81  | 75  | 69  | 81 | 74 | 69 | 64 | 62 | 58 | 55 | 51 | 48 | 46 | 40 | 39 | 37 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 42 | 39 | 36 | 33 | 31 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 49 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 |
| 5   | 67  | 56  | 48  | 42  | 62 | 52 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 34 | 29 | 32 | 28 | 25 | 26 | 23 | 21 |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 18 |
| 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  | 42 | 32 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10881 | 10881 | 10881 |
| 5°  | 10890 | 10568 | 10581 |
| 10° | 10798 | 10275 | 10203 |
| 15° | 10643 | 9926  | 9777  |
| 20° | 10445 | 9549  | 9334  |
| 25° | 10223 | 9150  | 8859  |
| 30° | 9954  | 8719  | 8338  |
| 35° | 9676  | 8278  | 7833  |
| 40° | 9387  | 7803  | 7296  |
| 45° | 9083  | 7327  | 6794  |
| 50° | 8747  | 6865  | 6238  |
| 55° | 8380  | 6326  | 5687  |
| 60° | 8007  | 5735  | 5111  |
| 65° | 7578  | 5126  | 4464  |
| 70° | 7086  | 4390  | 3770  |
| 75° | 6349  | 3540  | 3019  |
| 80° | 5408  | 2559  | 2125  |
| 85° | 4199  | 1425  | 1142  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9083 cd/sqm

TEST NUMBER: P1013143

CATALOG NUMBER: S124DIP-B795D1035UB2750-4F0-XX-W2A-F\_3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.8  | 1.7       |
| 10°-20°   | 354.3  | 4.7       |
| 20°-30°   | 521.5  | 6.9       |
| 30°-40°   | 606.2  | 8.1       |
| 40°-50°   | 606.2  | 8.1       |
| 50°-60°   | 530.2  | 7.1       |
| 60°-70°   | 393.6  | 5.2       |
| 70°-80°   | 223.3  | 3.0       |
| 80°-90°   | 66.7   | 0.9       |
| 90°-100°  | 43.9   | 0.6       |
| 100°-110° | 288.8  | 3.8       |
| 110°-120° | 551.5  | 7.3       |
| 120°-130° | 700.1  | 9.3       |
| 130°-140° | 749.0  | 10.0      |
| 140°-150° | 700.4  | 9.3       |
| 150°-160° | 564.8  | 7.5       |
| 160°-170° | 364.2  | 4.8       |
| 170°-180° | 125.5  | 1.7       |
| 0°-30°    | 1001.6 | 13.3      |
| 0°-40°    | 1607.8 | 21.4      |
| 0°-60°    | 2744.1 | 36.5      |
| 0°-90°    | 3427.7 | 45.6      |
| 90°-120°  | 884.2  | 11.8      |
| 90°-150°  | 3033.7 | 40.4      |
| 90°-180°  | 4088.0 | 54.4      |
| 0°-180°   | 7516.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1334 | 1334  | 1334 | 1334  | 1334 |      |
| 5°   | 1333 | 1329  | 1317 | 1329  | 1327 | 127  |
| 15°  | 1269 | 1265  | 1249 | 1255  | 1252 | 358  |
| 25°  | 1149 | 1142  | 1127 | 1128  | 1124 | 529  |
| 35°  | 989  | 982   | 967  | 959   | 954  | 618  |
| 45°  | 807  | 800   | 783  | 771   | 768  | 622  |
| 55°  | 610  | 607   | 592  | 580   | 573  | 547  |
| 65°  | 414  | 408   | 398  | 387   | 382  | 410  |
| 75°  | 220  | 215   | 210  | 205   | 204  | 234  |
| 85°  | 58   | 58    | 56   | 56    | 54   | 62   |
| 90°  | 3    | 14    | 22   | 28    | 30   | 7    |
| 95°  | 54   | 21    | 22   | 28    | 29   | 67   |
| 105° | 297  | 303   | 308  | 317   | 282  | 311  |
| 115° | 555  | 558   | 557  | 559   | 559  | 547  |
| 125° | 781  | 785   | 783  | 786   | 787  | 697  |
| 135° | 968  | 967   | 971  | 973   | 975  | 746  |
| 145° | 1117 | 1120  | 1120 | 1121  | 1123 | 698  |
| 155° | 1224 | 1225  | 1222 | 1226  | 1223 | 565  |
| 165° | 1292 | 1287  | 1287 | 1294  | 1286 | 365  |
| 175° | 1321 | 1315  | 1316 | 1325  | 1313 | 126  |
| 180° | 1321 | 1321  | 1321 | 1321  | 1321 |      |

TEST NUMBER: P1013143

CATALOG NUMBER: S124DIP-B795D1035UB2750-4F0-XX-W2A-F\_3000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1334.4 | 1334.4 | 1334.4 | 1334.4 | 1334.4 |
| 2.5°   | 1338.7 | 1335.5 | 1323.7 | 1334.4 | 1333.3 |
| 5°     | 1333.3 | 1329.1 | 1317.3 | 1329.1 | 1326.9 |
| 7.5°   | 1323.7 | 1319.4 | 1306.6 | 1316.2 | 1315.2 |
| 10°    | 1309.8 | 1305.5 | 1291.6 | 1300.2 | 1298.0 |
| 12.5°  | 1291.6 | 1287.4 | 1272.4 | 1282.0 | 1278.8 |
| 15°    | 1269.2 | 1264.9 | 1248.9 | 1255.3 | 1252.1 |
| 17.5°  | 1243.5 | 1238.2 | 1223.2 | 1227.5 | 1225.3 |
| 20°    | 1214.6 | 1209.3 | 1193.3 | 1196.5 | 1194.3 |
| 22.5°  | 1183.6 | 1176.2 | 1160.1 | 1166.5 | 1162.3 |
| 25°    | 1149.4 | 1141.9 | 1127.0 | 1128.0 | 1123.8 |
| 27.5°  | 1110.9 | 1103.4 | 1089.5 | 1087.4 | 1082.1 |
| 30°    | 1072.4 | 1063.9 | 1050.0 | 1045.7 | 1040.4 |
| 32.5°  | 1031.8 | 1024.3 | 1009.4 | 1004.0 | 998.7  |
| 35°    | 989.0  | 981.6  | 966.6  | 959.1  | 953.8  |
| 37.5°  | 944.1  | 937.7  | 921.7  | 914.2  | 906.7  |
| 40°    | 900.3  | 891.7  | 875.7  | 865.0  | 859.7  |
| 42.5°  | 853.2  | 849.0  | 830.8  | 818.0  | 814.8  |
| 45°    | 807.3  | 799.8  | 782.7  | 770.9  | 767.7  |
| 47.5°  | 759.2  | 753.8  | 737.8  | 724.9  | 716.4  |
| 50°    | 710.0  | 705.7  | 690.7  | 675.8  | 669.3  |
| 52.5°  | 661.9  | 656.5  | 640.5  | 627.6  | 619.1  |
| 55°    | 610.5  | 607.3  | 592.4  | 579.5  | 573.1  |
| 57.5°  | 562.4  | 559.2  | 544.2  | 531.4  | 525.0  |
| 60°    | 512.2  | 506.8  | 492.9  | 483.3  | 477.9  |
| 62.5°  | 463.0  | 458.7  | 443.7  | 435.2  | 429.8  |
| 65°    | 413.8  | 408.4  | 397.8  | 387.1  | 381.7  |
| 67.5°  | 363.5  | 359.3  | 348.6  | 337.9  | 336.8  |
| 70°    | 317.6  | 310.1  | 301.5  | 293.0  | 289.8  |
| 72.5°  | 268.4  | 260.9  | 254.5  | 248.1  | 244.9  |
| 75°    | 220.3  | 214.9  | 209.6  | 205.3  | 204.2  |
| 77.5°  | 173.2  | 171.1  | 165.7  | 164.7  | 161.5  |
| 80°    | 131.5  | 128.3  | 126.2  | 124.0  | 123.0  |
| 82.5°  | 90.9   | 89.8   | 89.8   | 88.7   | 87.7   |
| 85°    | 57.7   | 57.7   | 55.6   | 55.6   | 54.5   |
| 87.5°  | 27.8   | 26.7   | 25.7   | 25.7   | 25.7   |
| 90°    | 3.0    | 13.8   | 21.7   | 27.7   | 29.6   |
| 92.5°  | 14.8   | 12.8   | 20.8   | 26.7   | 26.7   |
| 95°    | 54.4   | 20.8   | 21.7   | 27.7   | 28.7   |
| 97.5°  | 103.8  | 125.5  | 21.7   | 26.7   | 27.7   |
| 100°   | 162.1  | 179.8  | 43.5   | 26.7   | 27.7   |
| 102.5° | 227.3  | 239.1  | 251.0  | 28.7   | 28.7   |
| 105°   | 297.4  | 303.4  | 308.3  | 317.2  | 281.6  |
| 107.5° | 361.7  | 364.6  | 371.6  | 376.5  | 380.5  |
| 110°   | 426.9  | 429.9  | 435.8  | 437.8  | 440.7  |

TEST NUMBER: P1013143

CATALOG NUMBER: S124DIP-B795D1035UB2750-4F0-XX-W2A-F\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 490.1  | 496.1  | 498.0  | 497.1  | 501.0  |
| 115°   | 555.4  | 558.3  | 557.3  | 559.3  | 559.3  |
| 117.5° | 613.7  | 617.6  | 620.6  | 619.6  | 619.6  |
| 120°   | 673.0  | 676.9  | 675.9  | 677.9  | 675.9  |
| 122.5° | 728.3  | 730.3  | 732.2  | 733.2  | 731.3  |
| 125°   | 780.7  | 784.6  | 782.6  | 785.6  | 786.6  |
| 127.5° | 831.1  | 832.1  | 837.0  | 836.0  | 835.0  |
| 130°   | 879.5  | 880.5  | 883.4  | 884.4  | 884.4  |
| 132.5° | 924.0  | 925.9  | 929.9  | 930.9  | 929.9  |
| 135°   | 968.4  | 967.4  | 971.4  | 973.4  | 975.3  |
| 137.5° | 1007.9 | 1007.9 | 1012.9 | 1014.9 | 1013.9 |
| 140°   | 1046.5 | 1048.5 | 1050.4 | 1053.4 | 1054.4 |
| 142.5° | 1081.1 | 1085.0 | 1086.0 | 1088.0 | 1088.0 |
| 145°   | 1116.6 | 1119.6 | 1119.6 | 1120.6 | 1122.6 |
| 147.5° | 1144.3 | 1150.2 | 1149.3 | 1150.2 | 1151.2 |
| 150°   | 1175.0 | 1178.9 | 1177.9 | 1177.9 | 1178.9 |
| 152.5° | 1200.6 | 1203.6 | 1201.6 | 1203.6 | 1202.6 |
| 155°   | 1224.4 | 1225.4 | 1222.4 | 1226.3 | 1223.4 |
| 157.5° | 1245.1 | 1245.1 | 1241.2 | 1246.1 | 1241.2 |
| 160°   | 1262.9 | 1259.9 | 1258.9 | 1264.9 | 1258.9 |
| 162.5° | 1278.7 | 1274.8 | 1273.8 | 1279.7 | 1272.8 |
| 165°   | 1291.6 | 1286.6 | 1286.6 | 1294.5 | 1285.6 |
| 167.5° | 1302.4 | 1297.5 | 1296.5 | 1305.4 | 1295.5 |
| 170°   | 1311.3 | 1305.4 | 1306.4 | 1314.3 | 1304.4 |
| 172.5° | 1317.3 | 1311.3 | 1312.3 | 1320.2 | 1309.3 |
| 175°   | 1321.2 | 1315.3 | 1316.3 | 1325.2 | 1313.3 |
| 177.5° | 1324.2 | 1317.3 | 1319.2 | 1327.1 | 1315.3 |
| 180°   | 1321.2 | 1321.2 | 1321.2 | 1321.2 | 1321.2 |

(END OF REPORT)