

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: P1027317

Luminaire Tested: S125DIP-B1090D1090UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027317  
REPORT IS A COMBINATION OF REPORTS P1001247 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1090D1090UB30-4F0-XX-W2A-D1  
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

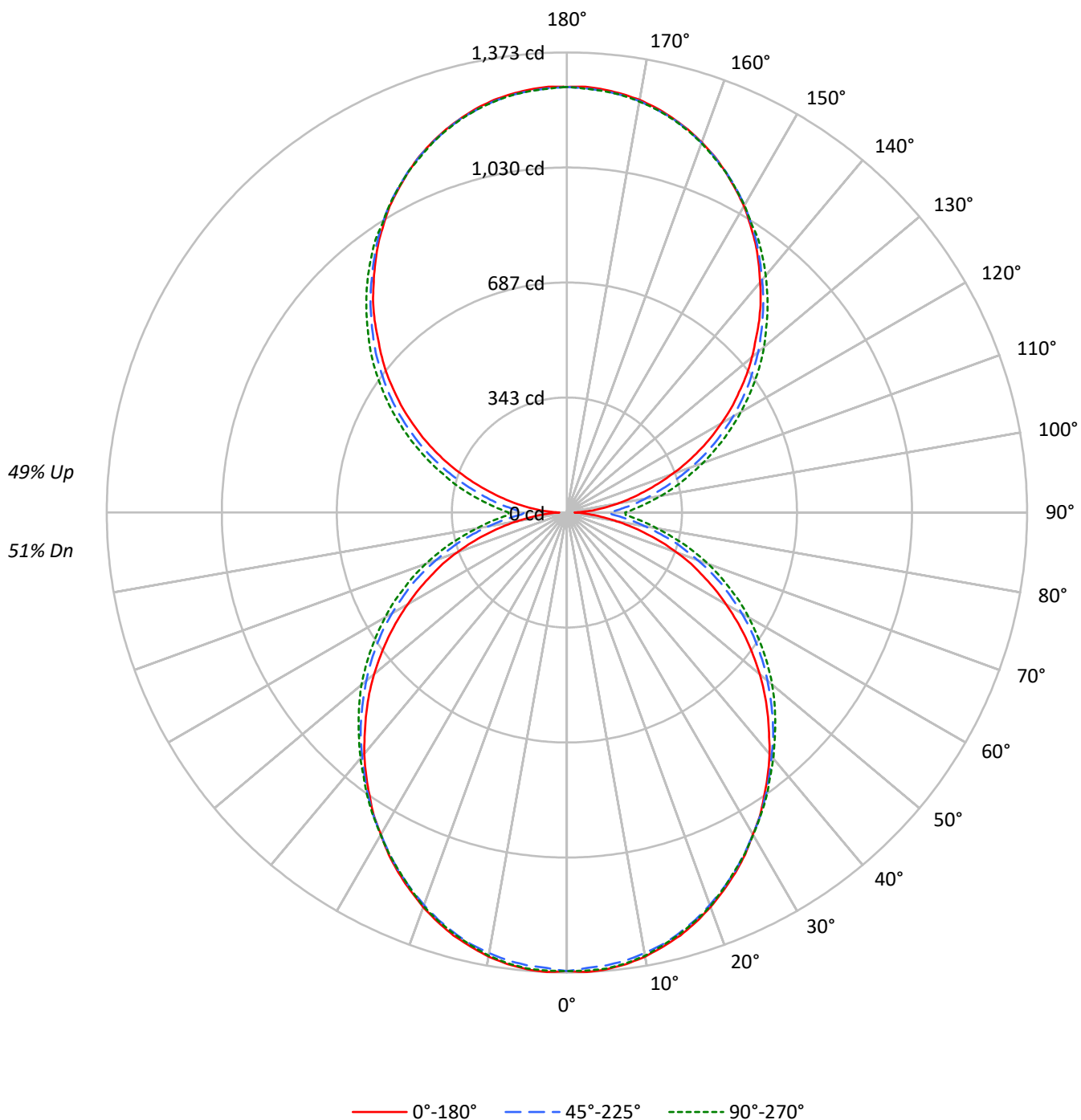
Lumens per Lamp: N/A  
Luminaire Lumens: 7787.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |  |    |    |    |  |    |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 |  | 70 | 70 | 70 |  | 57 |
| 1   | 97  | 93  | 88  | 85  | 90 | 86 | 82 | 79 | 72 | 70 | 67 |  | 60 | 59 | 57 |  | 49 |
| 2   | 88  | 80  | 74  | 69  | 81 | 74 | 69 | 64 | 63 | 59 | 55 |  | 53 | 50 | 47 |  | 43 |
| 3   | 80  | 70  | 63  | 57  | 74 | 65 | 59 | 53 | 55 | 50 | 46 |  | 46 | 42 | 39 |  | 38 |
| 4   | 73  | 62  | 54  | 48  | 67 | 58 | 50 | 45 | 49 | 43 | 39 |  | 41 | 37 | 33 |  | 34 |
| 5   | 67  | 55  | 47  | 41  | 62 | 51 | 44 | 38 | 44 | 38 | 34 |  | 37 | 32 | 29 |  | 30 |
| 6   | 62  | 50  | 41  | 35  | 57 | 46 | 39 | 33 | 39 | 34 | 29 |  | 33 | 29 | 25 |  | 27 |
| 7   | 57  | 45  | 37  | 31  | 53 | 42 | 34 | 29 | 36 | 30 | 26 |  | 30 | 26 | 22 |  | 25 |
| 8   | 53  | 41  | 33  | 27  | 49 | 38 | 31 | 26 | 33 | 27 | 23 |  | 28 | 23 | 20 |  | 23 |
| 9   | 49  | 37  | 29  | 24  | 46 | 35 | 28 | 23 | 30 | 24 | 20 |  | 25 | 21 | 18 |  | 21 |
| 10  | 46  | 34  | 27  | 22  | 43 | 32 | 25 | 21 | 27 | 22 | 18 |  | 23 | 19 | 16 |  | 20 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8769 | 8769 | 8769 |
| 5°  | 8784 | 8585 | 8606 |
| 10° | 8718 | 8411 | 8387 |
| 15° | 8612 | 8207 | 8116 |
| 20° | 8468 | 7961 | 7847 |
| 25° | 8299 | 7699 | 7522 |
| 30° | 8093 | 7414 | 7227 |
| 35° | 7902 | 7150 | 6954 |
| 40° | 7705 | 6873 | 6679 |
| 45° | 7485 | 6633 | 6432 |
| 50° | 7273 | 6372 | 6210 |
| 55° | 7019 | 6122 | 5951 |
| 60° | 6741 | 5839 | 5686 |
| 65° | 6449 | 5541 | 5386 |
| 70° | 6116 | 5140 | 5076 |
| 75° | 5590 | 4744 | 4697 |
| 80° | 4899 | 4264 | 4276 |
| 85° | 4220 | 3880 | 4055 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 129.5  | 1.7       |
| 10°-20°   | 367.7  | 4.7       |
| 20°-30°   | 546.7  | 7.0       |
| 30°-40°   | 647.5  | 8.3       |
| 40°-50°   | 669.4  | 8.6       |
| 50°-60°   | 616.7  | 7.9       |
| 60°-70°   | 498.5  | 6.4       |
| 70°-80°   | 333.6  | 4.3       |
| 80°-90°   | 174.4  | 2.2       |
| 90°-100°  | 181.6  | 2.3       |
| 100°-110° | 322.5  | 4.1       |
| 110°-120° | 473.5  | 6.1       |
| 120°-130° | 587.4  | 7.5       |
| 130°-140° | 639.7  | 8.2       |
| 140°-150° | 617.7  | 7.9       |
| 150°-160° | 516.9  | 6.6       |
| 160°-170° | 343.6  | 4.4       |
| 170°-180° | 120.2  | 1.5       |
| 0°-30°    | 1043.9 | 13.4      |
| 0°-40°    | 1691.5 | 21.7      |
| 0°-60°    | 2977.5 | 38.2      |
| 0°-90°    | 3984.0 | 51.2      |
| 90°-120°  | 977.6  | 12.6      |
| 90°-150°  | 2822.3 | 36.2      |
| 90°-180°  | 3803.0 | 48.8      |
| 0°-180°   | 7787.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1369 | 1369  | 1369 | 1369  | 1369 |      |
| 5°   | 1369 | 1366  | 1357 | 1367  | 1366 | 130  |
| 15°  | 1307 | 1308  | 1299 | 1307  | 1302 | 368  |
| 25°  | 1188 | 1192  | 1184 | 1189  | 1182 | 547  |
| 35°  | 1028 | 1037  | 1033 | 1037  | 1037 | 643  |
| 45°  | 847  | 862   | 868  | 878   | 879  | 653  |
| 55°  | 651  | 672   | 694  | 708   | 714  | 582  |
| 65°  | 448  | 479   | 511  | 531   | 537  | 445  |
| 75°  | 247  | 282   | 325  | 352   | 358  | 262  |
| 85°  | 74   | 118   | 165  | 195   | 205  | 77   |
| 90°  | 22   | 73    | 126  | 162   | 174  | 19   |
| 95°  | 82   | 118   | 174  | 210   | 222  | 81   |
| 105° | 238  | 264   | 310  | 343   | 355  | 253  |
| 115° | 434  | 447   | 484  | 508   | 514  | 429  |
| 125° | 627  | 632   | 660  | 679   | 685  | 562  |
| 135° | 811  | 816   | 826  | 844   | 846  | 625  |
| 145° | 981  | 984   | 986  | 993   | 996  | 613  |
| 155° | 1121 | 1121  | 1122 | 1126  | 1121 | 516  |
| 165° | 1219 | 1217  | 1218 | 1222  | 1216 | 344  |
| 175° | 1267 | 1263  | 1263 | 1269  | 1262 | 120  |
| 180° | 1270 | 1270  | 1270 | 1270  | 1270 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1368.7 | 1368.7 | 1368.7 | 1368.7 | 1368.7 |
| 2.5°   | 1372.7 | 1370.0 | 1360.7 | 1370.0 | 1368.7 |
| 5°     | 1368.7 | 1366.0 | 1356.6 | 1367.4 | 1366.0 |
| 7.5°   | 1359.3 | 1358.0 | 1348.6 | 1358.0 | 1356.6 |
| 10°    | 1345.9 | 1345.9 | 1335.2 | 1344.5 | 1343.2 |
| 12.5°  | 1327.1 | 1328.4 | 1320.4 | 1327.1 | 1323.1 |
| 15°    | 1307.0 | 1308.3 | 1298.9 | 1307.0 | 1301.6 |
| 17.5°  | 1281.5 | 1284.2 | 1274.8 | 1281.5 | 1277.5 |
| 20°    | 1253.3 | 1256.0 | 1246.6 | 1250.6 | 1250.6 |
| 22.5°  | 1221.1 | 1226.5 | 1215.7 | 1221.1 | 1217.1 |
| 25°    | 1187.6 | 1191.6 | 1183.5 | 1188.9 | 1182.2 |
| 27.5°  | 1151.3 | 1156.7 | 1147.3 | 1151.3 | 1148.6 |
| 30°    | 1109.7 | 1117.8 | 1109.7 | 1112.4 | 1111.1 |
| 32.5°  | 1072.2 | 1078.9 | 1073.5 | 1076.2 | 1074.8 |
| 35°    | 1027.9 | 1037.3 | 1033.2 | 1037.3 | 1037.3 |
| 37.5°  | 984.9  | 993.0  | 991.6  | 997.0  | 995.7  |
| 40°    | 940.6  | 951.4  | 950.0  | 955.4  | 958.1  |
| 42.5°  | 892.3  | 907.1  | 911.1  | 917.8  | 917.8  |
| 45°    | 846.7  | 861.5  | 868.2  | 877.6  | 878.9  |
| 47.5°  | 799.8  | 813.2  | 823.9  | 837.3  | 840.0  |
| 50°    | 751.4  | 766.2  | 781.0  | 795.7  | 799.8  |
| 52.5°  | 700.5  | 719.2  | 738.0  | 754.1  | 756.8  |
| 55°    | 650.8  | 672.3  | 693.7  | 708.5  | 713.9  |
| 57.5°  | 599.8  | 625.3  | 649.5  | 665.6  | 669.6  |
| 60°    | 548.8  | 575.7  | 602.5  | 622.6  | 626.7  |
| 62.5°  | 499.2  | 526.0  | 555.5  | 578.3  | 583.7  |
| 65°    | 448.2  | 479.0  | 511.3  | 531.4  | 536.7  |
| 67.5°  | 401.2  | 430.7  | 462.9  | 487.1  | 493.8  |
| 70°    | 348.9  | 379.7  | 414.6  | 440.1  | 448.2  |
| 72.5°  | 297.9  | 330.1  | 369.0  | 397.2  | 402.6  |
| 75°    | 246.9  | 281.8  | 324.7  | 351.6  | 358.3  |
| 77.5°  | 197.3  | 237.5  | 277.8  | 307.3  | 312.7  |
| 80°    | 151.6  | 191.9  | 237.5  | 267.0  | 272.4  |
| 82.5°  | 110.0  | 153.0  | 199.9  | 228.1  | 238.9  |
| 85°    | 73.8   | 118.1  | 165.0  | 194.6  | 205.3  |
| 87.5°  | 47.0   | 89.9   | 135.5  | 166.4  | 175.8  |
| 90°    | 22.5   | 73.3   | 125.8  | 161.7  | 174.0  |
| 92.5°  | 48.5   | 92.3   | 148.2  | 184.6  | 196.0  |
| 95°    | 81.7   | 118.5  | 174.1  | 210.5  | 221.9  |
| 97.5°  | 114.9  | 148.1  | 206.3  | 240.4  | 250.8  |
| 100°   | 153.2  | 181.3  | 237.1  | 274.2  | 284.2  |
| 102.5° | 194.3  | 224.7  | 271.3  | 308.0  | 319.0  |
| 105°   | 237.5  | 263.8  | 310.0  | 342.8  | 355.1  |
| 107.5° | 284.5  | 308.3  | 352.1  | 382.0  | 390.0  |
| 110°   | 333.6  | 354.7  | 395.2  | 423.7  | 432.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 385.0  | 399.1  | 439.3  | 464.4  | 471.8  |
| 115°   | 434.1  | 447.4  | 484.3  | 507.5  | 514.5  |
| 117.5° | 484.1  | 491.8  | 527.4  | 551.2  | 556.6  |
| 120°   | 531.6  | 540.5  | 572.4  | 595.2  | 599.4  |
| 122.5° | 581.7  | 584.0  | 616.4  | 637.0  | 642.1  |
| 125°   | 627.2  | 631.7  | 659.6  | 679.0  | 684.7  |
| 127.5° | 676.2  | 677.8  | 701.6  | 720.7  | 726.9  |
| 130°   | 720.6  | 724.3  | 745.1  | 762.9  | 767.6  |
| 132.5° | 763.8  | 772.7  | 785.1  | 803.0  | 805.4  |
| 135°   | 811.3  | 815.8  | 826.2  | 843.7  | 846.4  |
| 137.5° | 855.8  | 860.3  | 867.7  | 884.8  | 885.2  |
| 140°   | 896.9  | 901.8  | 906.2  | 922.8  | 923.3  |
| 142.5° | 939.4  | 942.0  | 946.0  | 959.1  | 959.4  |
| 145°   | 980.9  | 983.5  | 986.5  | 993.2  | 995.6  |
| 147.5° | 1018.1 | 1021.1 | 1023.1 | 1028.7 | 1023.5 |
| 150°   | 1056.7 | 1055.7 | 1059.7 | 1059.7 | 1059.0 |
| 152.5° | 1088.3 | 1090.3 | 1091.3 | 1094.2 | 1090.3 |
| 155°   | 1120.9 | 1120.9 | 1121.9 | 1125.9 | 1120.9 |
| 157.5° | 1150.6 | 1148.6 | 1149.6 | 1153.6 | 1146.6 |
| 160°   | 1176.3 | 1173.3 | 1174.3 | 1178.3 | 1173.3 |
| 162.5° | 1199.0 | 1197.1 | 1197.1 | 1202.0 | 1196.1 |
| 165°   | 1218.8 | 1216.8 | 1217.8 | 1221.8 | 1215.8 |
| 167.5° | 1236.6 | 1232.6 | 1232.6 | 1238.6 | 1232.6 |
| 170°   | 1250.4 | 1246.5 | 1246.5 | 1252.4 | 1245.5 |
| 172.5° | 1260.3 | 1256.4 | 1256.4 | 1262.3 | 1256.4 |
| 175°   | 1267.2 | 1263.3 | 1263.3 | 1269.2 | 1262.3 |
| 177.5° | 1272.2 | 1268.2 | 1267.2 | 1273.2 | 1266.2 |
| 180°   | 1270.2 | 1270.2 | 1270.2 | 1270.2 | 1270.2 |

(END OF REPORT)