

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: P1027542

Luminaire Tested: S125DIP-B1270D1090UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027542  
REPORT IS A COMBINATION OF REPORTS P1001550 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1270D1090UB30-4F0-XX-W2A-F1  
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

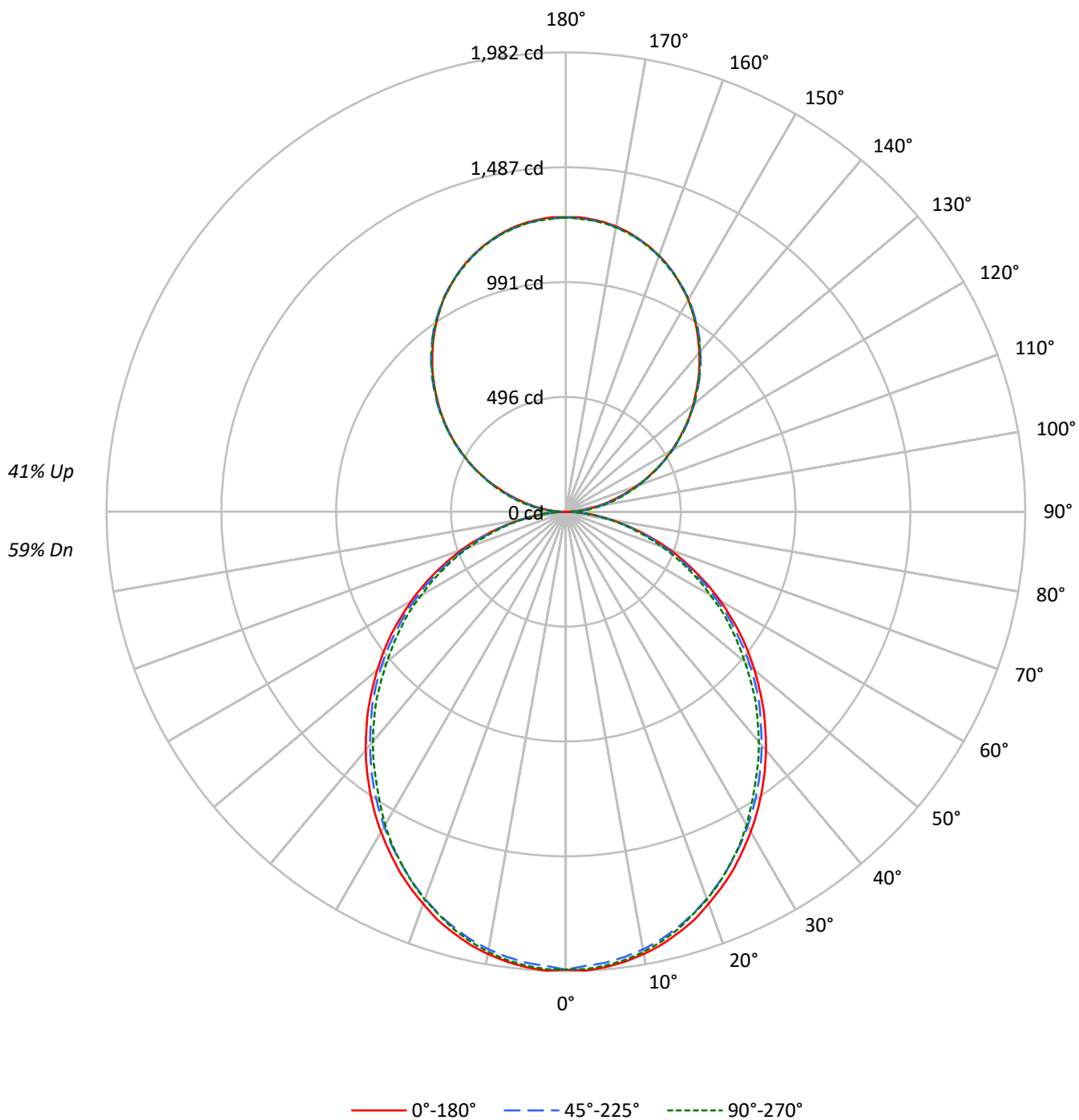
Lumens per Lamp: N/A  
Luminaire Lumens: 8688.0 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 89.8  
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   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 65 | 65 | 65 |
| 1   | 100 | 95  | 91  | 88  | 93  | 89  | 86  | 83  | 78 | 75 | 73 | 67 | 65 | 63 | 57 | 56 | 54 |
| 2   | 91  | 83  | 77  | 72  | 84  | 78  | 72  | 68  | 68 | 64 | 60 | 59 | 56 | 53 | 50 | 48 | 46 |
| 3   | 83  | 73  | 66  | 60  | 77  | 69  | 62  | 57  | 60 | 55 | 50 | 52 | 48 | 45 | 44 | 41 | 39 |
| 4   | 76  | 65  | 57  | 51  | 70  | 61  | 54  | 48  | 53 | 48 | 43 | 46 | 42 | 38 | 40 | 36 | 34 |
| 5   | 70  | 58  | 49  | 43  | 65  | 54  | 47  | 41  | 48 | 42 | 37 | 41 | 37 | 33 | 36 | 32 | 29 |
| 6   | 64  | 52  | 44  | 38  | 60  | 49  | 41  | 36  | 43 | 37 | 32 | 38 | 33 | 29 | 32 | 29 | 26 |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 32  | 39 | 33 | 29 | 34 | 29 | 26 | 30 | 26 | 23 |
| 8   | 55  | 43  | 35  | 29  | 51  | 40  | 33  | 28  | 36 | 30 | 25 | 31 | 26 | 23 | 27 | 23 | 21 |
| 9   | 51  | 39  | 31  | 26  | 48  | 37  | 30  | 25  | 33 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 19 |
| 10  | 48  | 36  | 28  | 24  | 45  | 34  | 27  | 23  | 30 | 25 | 21 | 27 | 22 | 19 | 23 | 20 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12655 | 12655 | 12655 |
| 5°  | 12656 | 12362 | 12385 |
| 10° | 12551 | 12078 | 12040 |
| 15° | 12387 | 11739 | 11634 |
| 20° | 12164 | 11346 | 11168 |
| 25° | 11924 | 10918 | 10669 |
| 30° | 11636 | 10471 | 10143 |
| 35° | 11328 | 10003 | 9554  |
| 40° | 11009 | 9508  | 9031  |
| 45° | 10665 | 9026  | 8474  |
| 50° | 10285 | 8479  | 7826  |
| 55° | 9911  | 7875  | 7230  |
| 60° | 9462  | 7239  | 6536  |
| 65° | 8927  | 6503  | 5819  |
| 70° | 8382  | 5657  | 4991  |
| 75° | 7465  | 4658  | 4035  |
| 80° | 6363  | 3480  | 2969  |
| 85° | 4911  | 2057  | 1636  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10665 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 186.4  | 2.1       |
| 10°-20°   | 526.5  | 6.1       |
| 20°-30°   | 777.2  | 8.9       |
| 30°-40°   | 906.8  | 10.4      |
| 40°-50°   | 910.8  | 10.5      |
| 50°-60°   | 799.5  | 9.2       |
| 60°-70°   | 595.5  | 6.9       |
| 70°-80°   | 340.1  | 3.9       |
| 80°-90°   | 100.2  | 1.2       |
| 90°-100°  | 84.5   | 1.0       |
| 100°-110° | 250.9  | 2.9       |
| 110°-120° | 425.6  | 4.9       |
| 120°-130° | 560.2  | 6.4       |
| 130°-140° | 627.8  | 7.2       |
| 140°-150° | 615.3  | 7.1       |
| 150°-160° | 516.9  | 5.9       |
| 160°-170° | 343.6  | 4.0       |
| 170°-180° | 120.2  | 1.4       |
| 0°-30°    | 1490.1 | 17.2      |
| 0°-40°    | 2396.9 | 27.6      |
| 0°-60°    | 4107.2 | 47.3      |
| 0°-90°    | 5143.0 | 59.2      |
| 90°-120°  | 761.0  | 8.8       |
| 90°-150°  | 2564.3 | 29.5      |
| 90°-180°  | 3545.0 | 40.8      |
| 0°-180°   | 8688.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1975 | 1975  | 1975 | 1975  | 1975 |      |
| 5°   | 1972 | 1969  | 1953 | 1967  | 1966 | 187  |
| 15°  | 1880 | 1875  | 1858 | 1866  | 1866 | 530  |
| 25°  | 1706 | 1699  | 1678 | 1681  | 1677 | 785  |
| 35°  | 1474 | 1467  | 1446 | 1438  | 1425 | 922  |
| 45°  | 1206 | 1200  | 1181 | 1163  | 1158 | 929  |
| 55°  | 919  | 914   | 892  | 878   | 867  | 820  |
| 65°  | 620  | 617   | 600  | 586   | 580  | 615  |
| 75°  | 330  | 327   | 319  | 314   | 308  | 351  |
| 85°  | 86   | 88    | 88   | 86    | 83   | 94   |
| 90°  | 1    | 9     | 16   | 21    | 24   | 10   |
| 95°  | 64   | 66    | 76   | 83    | 85   | 67   |
| 105° | 225  | 230   | 236  | 242   | 245  | 240  |
| 115° | 426  | 430   | 432  | 431   | 430  | 421  |
| 125° | 622  | 628   | 629  | 627   | 626  | 557  |
| 135° | 809  | 814   | 816  | 816   | 812  | 623  |
| 145° | 980  | 984   | 986  | 986   | 984  | 612  |
| 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°     | 1975.2 | 1975.2 | 1975.2 | 1975.2 | 1975.2 |
| 2.5°   | 1981.5 | 1976.8 | 1961.2 | 1976.8 | 1975.2 |
| 5°     | 1972.1 | 1969.0 | 1953.3 | 1967.4 | 1965.8 |
| 7.5°   | 1958.0 | 1954.9 | 1937.7 | 1951.8 | 1950.2 |
| 10°    | 1937.7 | 1934.6 | 1917.4 | 1929.9 | 1928.3 |
| 12.5°  | 1912.7 | 1906.5 | 1890.8 | 1900.2 | 1900.2 |
| 15°    | 1879.9 | 1875.2 | 1858.0 | 1865.8 | 1865.8 |
| 17.5°  | 1845.5 | 1837.7 | 1820.5 | 1829.9 | 1822.1 |
| 20°    | 1800.2 | 1797.1 | 1776.8 | 1787.7 | 1779.9 |
| 22.5°  | 1754.9 | 1748.6 | 1729.9 | 1736.1 | 1731.4 |
| 25°    | 1706.4 | 1698.6 | 1678.3 | 1681.4 | 1676.7 |
| 27.5°  | 1650.2 | 1645.5 | 1625.2 | 1626.7 | 1622.1 |
| 30°    | 1595.5 | 1590.8 | 1567.4 | 1564.2 | 1559.5 |
| 32.5°  | 1536.1 | 1528.3 | 1508.0 | 1501.7 | 1492.4 |
| 35°    | 1473.6 | 1467.3 | 1445.5 | 1437.7 | 1425.2 |
| 37.5°  | 1409.5 | 1401.7 | 1381.4 | 1370.5 | 1362.6 |
| 40°    | 1343.9 | 1336.1 | 1314.2 | 1300.1 | 1295.5 |
| 42.5°  | 1273.6 | 1267.3 | 1245.4 | 1232.9 | 1225.1 |
| 45°    | 1206.4 | 1200.1 | 1181.4 | 1162.6 | 1157.9 |
| 47.5°  | 1132.9 | 1134.5 | 1111.1 | 1092.3 | 1081.4 |
| 50°    | 1062.6 | 1057.9 | 1039.2 | 1018.9 | 1007.9 |
| 52.5°  | 990.7  | 987.6  | 967.3  | 950.1  | 937.6  |
| 55°    | 918.9  | 914.2  | 892.3  | 878.2  | 867.3  |
| 57.5°  | 842.3  | 840.7  | 822.0  | 803.2  | 798.5  |
| 60°    | 770.4  | 764.1  | 747.0  | 731.3  | 720.4  |
| 62.5°  | 695.4  | 690.7  | 676.6  | 659.4  | 651.6  |
| 65°    | 620.4  | 617.3  | 600.1  | 586.0  | 579.8  |
| 67.5°  | 546.9  | 540.7  | 528.2  | 515.7  | 512.6  |
| 70°    | 478.2  | 470.4  | 456.3  | 446.9  | 440.7  |
| 72.5°  | 403.2  | 398.5  | 390.7  | 379.7  | 373.5  |
| 75°    | 329.7  | 326.6  | 318.8  | 314.1  | 307.8  |
| 77.5°  | 261.0  | 259.4  | 254.7  | 251.6  | 246.9  |
| 80°    | 196.9  | 196.9  | 193.8  | 192.2  | 189.1  |
| 82.5°  | 140.6  | 137.5  | 137.5  | 134.4  | 134.4  |
| 85°    | 85.9   | 87.5   | 87.5   | 85.9   | 82.8   |
| 87.5°  | 42.2   | 42.2   | 40.6   | 40.6   | 37.5   |
| 90°    | 1.0    | 8.9    | 15.8   | 20.8   | 23.7   |
| 92.5°  | 29.7   | 34.6   | 43.5   | 50.4   | 52.4   |
| 95°    | 64.3   | 66.2   | 76.1   | 83.0   | 85.0   |
| 97.5°  | 98.8   | 99.8   | 113.7  | 119.6  | 120.6  |
| 100°   | 138.4  | 138.4  | 151.2  | 160.1  | 162.1  |
| 102.5° | 180.9  | 185.8  | 190.8  | 200.7  | 203.6  |
| 105°   | 225.4  | 230.3  | 236.2  | 242.2  | 245.1  |
| 107.5° | 273.8  | 278.8  | 283.7  | 286.7  | 286.7  |
| 110°   | 324.2  | 329.2  | 332.1  | 335.1  | 334.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 375.6  | 377.6  | 381.6  | 382.5  | 380.6  |
| 115°   | 426.0  | 430.0  | 432.0  | 431.0  | 430.0  |
| 117.5° | 477.4  | 478.4  | 480.4  | 481.4  | 477.4  |
| 120°   | 524.9  | 529.8  | 530.8  | 530.8  | 526.9  |
| 122.5° | 576.3  | 577.3  | 580.2  | 579.3  | 576.3  |
| 125°   | 621.8  | 627.7  | 628.7  | 626.7  | 625.7  |
| 127.5° | 672.2  | 675.1  | 676.1  | 675.1  | 673.2  |
| 130°   | 716.6  | 721.6  | 723.6  | 722.6  | 720.6  |
| 132.5° | 761.1  | 770.0  | 769.0  | 768.1  | 765.1  |
| 135°   | 808.6  | 814.5  | 815.5  | 815.5  | 811.5  |
| 137.5° | 853.1  | 859.0  | 861.0  | 862.0  | 857.0  |
| 140°   | 895.6  | 900.5  | 903.5  | 905.4  | 900.5  |
| 142.5° | 938.1  | 942.0  | 946.0  | 947.0  | 942.0  |
| 145°   | 979.6  | 983.5  | 986.5  | 986.5  | 983.5  |
| 147.5° | 1018.1 | 1021.1 | 1023.1 | 1026.0 | 1018.1 |
| 150°   | 1056.7 | 1055.7 | 1059.7 | 1059.7 | 1057.7 |
| 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)