

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: P1026782

Luminaire Tested: S125DIP-B1270D1270UB2750-4F0-XX-W2A-F\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026782  
REPORT IS A COMBINATION OF REPORTS P1001601 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1270D1270UB2750-4F0-XX-W2A-F\_4000K  
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

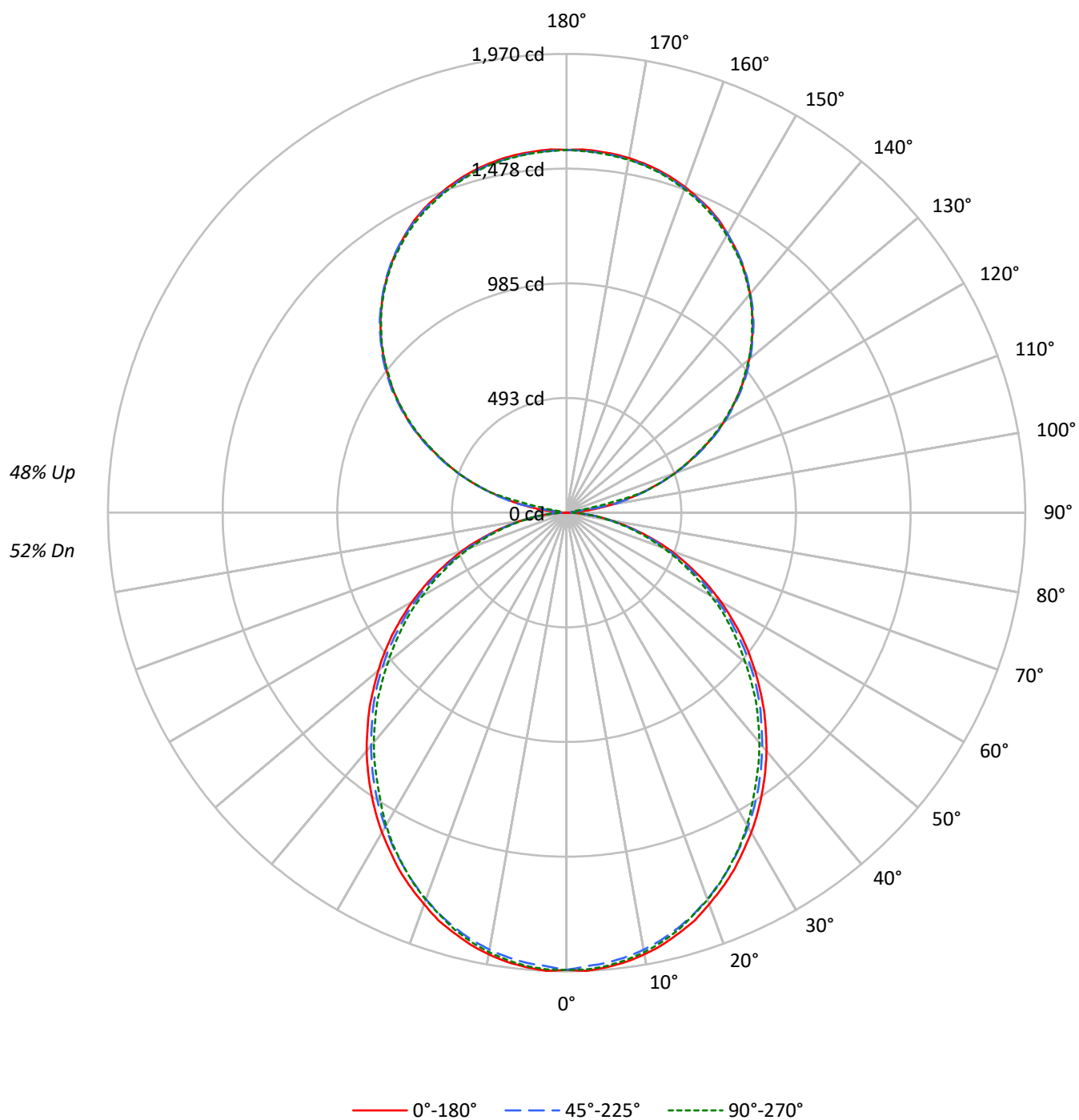
Lumens per Lamp: N/A  
Luminaire Lumens: 9899.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 96.3  
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 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 58 | 58 | 58 |
| 1   | 98  | 94  | 90  | 86  | 91 | 87 | 83 | 80 | 74 | 71 | 69 | 62 | 60 | 59 | 51 | 50 | 49 |
| 2   | 89  | 82  | 76  | 70  | 82 | 76 | 70 | 66 | 65 | 61 | 57 | 54 | 51 | 49 | 45 | 43 | 41 |
| 3   | 81  | 72  | 65  | 59  | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 40 | 37 | 35 |
| 4   | 74  | 64  | 56  | 50  | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 43 | 39 | 35 | 35 | 32 | 30 |
| 5   | 68  | 57  | 48  | 42  | 63 | 53 | 45 | 40 | 45 | 40 | 35 | 38 | 34 | 31 | 32 | 29 | 26 |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 26 | 23 |
| 7   | 58  | 46  | 38  | 32  | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 32 | 27 | 24 | 26 | 23 | 20 |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 |
| 9   | 50  | 38  | 31  | 25  | 47 | 36 | 29 | 24 | 31 | 25 | 22 | 27 | 22 | 19 | 22 | 19 | 16 |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 25 | 20 | 17 | 21 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12582 | 12582 | 12582 |
| 5°  | 12582 | 12289 | 12313 |
| 10° | 12478 | 12008 | 11970 |
| 15° | 12314 | 11671 | 11566 |
| 20° | 12093 | 11280 | 11103 |
| 25° | 11855 | 10854 | 10607 |
| 30° | 11568 | 10410 | 10084 |
| 35° | 11262 | 9944  | 9498  |
| 40° | 10945 | 9452  | 8978  |
| 45° | 10602 | 8973  | 8425  |
| 50° | 10225 | 8429  | 7780  |
| 55° | 9852  | 7829  | 7187  |
| 60° | 9407  | 7197  | 6498  |
| 65° | 8875  | 6465  | 5785  |
| 70° | 8333  | 5623  | 4961  |
| 75° | 7422  | 4630  | 4011  |
| 80° | 6324  | 3458  | 2951  |
| 85° | 4883  | 2046  | 1626  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10602 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 185.3  | 1.9       |
| 10°-20°   | 523.4  | 5.3       |
| 20°-30°   | 772.7  | 7.8       |
| 30°-40°   | 901.5  | 9.1       |
| 40°-50°   | 905.5  | 9.1       |
| 50°-60°   | 794.8  | 8.0       |
| 60°-70°   | 592.0  | 6.0       |
| 70°-80°   | 338.1  | 3.4       |
| 80°-90°   | 99.9   | 1.0       |
| 90°-100°  | 52.9   | 0.5       |
| 100°-110° | 351.6  | 3.6       |
| 110°-120° | 633.2  | 6.4       |
| 120°-130° | 812.7  | 8.2       |
| 130°-140° | 874.1  | 8.8       |
| 140°-150° | 820.4  | 8.3       |
| 150°-160° | 663.6  | 6.7       |
| 160°-170° | 429.2  | 4.3       |
| 170°-180° | 148.0  | 1.5       |
| 0°-30°    | 1481.4 | 15.0      |
| 0°-40°    | 2383.0 | 24.1      |
| 0°-60°    | 4083.2 | 41.2      |
| 0°-90°    | 5113.3 | 51.7      |
| 90°-120°  | 1037.7 | 10.5      |
| 90°-150°  | 3544.9 | 35.8      |
| 90°-180°  | 4786.0 | 48.3      |
| 0°-180°   | 9899.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1964 | 1964  | 1964 | 1964  | 1964 |      |
| 5°   | 1961 | 1958  | 1942 | 1956  | 1954 | 186  |
| 15°  | 1869 | 1864  | 1847 | 1855  | 1855 | 527  |
| 25°  | 1696 | 1689  | 1668 | 1672  | 1667 | 781  |
| 35°  | 1465 | 1459  | 1437 | 1429  | 1417 | 916  |
| 45°  | 1199 | 1193  | 1174 | 1156  | 1151 | 924  |
| 55°  | 914  | 909   | 887  | 873   | 862  | 815  |
| 65°  | 617  | 614   | 597  | 583   | 576  | 612  |
| 75°  | 328  | 325   | 317  | 312   | 306  | 349  |
| 85°  | 85   | 87    | 87   | 85    | 82   | 94   |
| 90°  | 1    | 10    | 18   | 24    | 28   | 9    |
| 95°  | 66   | 62    | 18   | 24    | 24   | 81   |
| 105° | 340  | 344   | 344  | 344   | 343  | 360  |
| 115° | 638  | 643   | 644  | 640   | 633  | 632  |
| 125° | 907  | 915   | 915  | 910   | 907  | 810  |
| 135° | 1131 | 1138  | 1135 | 1133  | 1126 | 872  |
| 145° | 1311 | 1313  | 1313 | 1314  | 1307 | 820  |
| 155° | 1444 | 1437  | 1439 | 1442  | 1433 | 665  |
| 165° | 1523 | 1516  | 1518 | 1524  | 1515 | 430  |
| 175° | 1558 | 1551  | 1552 | 1561  | 1551 | 148  |
| 180° | 1558 | 1558  | 1558 | 1558  | 1558 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1963.7 | 1963.7 | 1963.7 | 1963.7 | 1963.7 |
| 2.5°   | 1969.9 | 1965.2 | 1949.7 | 1965.2 | 1963.7 |
| 5°     | 1960.6 | 1957.5 | 1941.9 | 1955.9 | 1954.4 |
| 7.5°   | 1946.6 | 1943.5 | 1926.4 | 1940.4 | 1938.8 |
| 10°    | 1926.4 | 1923.3 | 1906.2 | 1918.6 | 1917.1 |
| 12.5°  | 1901.5 | 1895.3 | 1879.8 | 1889.1 | 1889.1 |
| 15°    | 1868.9 | 1864.3 | 1847.2 | 1854.9 | 1854.9 |
| 17.5°  | 1834.7 | 1827.0 | 1809.9 | 1819.2 | 1811.4 |
| 20°    | 1789.7 | 1786.6 | 1766.4 | 1777.3 | 1769.5 |
| 22.5°  | 1744.6 | 1738.4 | 1719.8 | 1726.0 | 1721.3 |
| 25°    | 1696.5 | 1688.7 | 1668.5 | 1671.6 | 1667.0 |
| 27.5°  | 1640.6 | 1635.9 | 1615.7 | 1617.2 | 1612.6 |
| 30°    | 1586.2 | 1581.5 | 1558.2 | 1555.1 | 1550.4 |
| 32.5°  | 1527.1 | 1519.4 | 1499.2 | 1493.0 | 1483.6 |
| 35°    | 1465.0 | 1458.8 | 1437.0 | 1429.3 | 1416.8 |
| 37.5°  | 1401.3 | 1393.5 | 1373.3 | 1362.5 | 1354.7 |
| 40°    | 1336.1 | 1328.3 | 1306.5 | 1292.6 | 1287.9 |
| 42.5°  | 1266.1 | 1259.9 | 1238.2 | 1225.8 | 1218.0 |
| 45°    | 1199.3 | 1193.1 | 1174.5 | 1155.8 | 1151.2 |
| 47.5°  | 1126.3 | 1127.9 | 1104.6 | 1085.9 | 1075.1 |
| 50°    | 1056.4 | 1051.8 | 1033.1 | 1012.9 | 1002.0 |
| 52.5°  | 985.0  | 981.8  | 961.6  | 944.6  | 932.1  |
| 55°    | 913.5  | 908.8  | 887.1  | 873.1  | 862.2  |
| 57.5°  | 837.4  | 835.8  | 817.2  | 798.5  | 793.9  |
| 60°    | 765.9  | 759.7  | 742.6  | 727.1  | 716.2  |
| 62.5°  | 691.3  | 686.7  | 672.7  | 655.6  | 647.8  |
| 65°    | 616.8  | 613.7  | 596.6  | 582.6  | 576.4  |
| 67.5°  | 543.7  | 537.5  | 525.1  | 512.7  | 509.6  |
| 70°    | 475.4  | 467.6  | 453.6  | 444.3  | 438.1  |
| 72.5°  | 400.8  | 396.2  | 388.4  | 377.5  | 371.3  |
| 75°    | 327.8  | 324.7  | 316.9  | 312.3  | 306.0  |
| 77.5°  | 259.4  | 257.9  | 253.2  | 250.1  | 245.5  |
| 80°    | 195.7  | 195.7  | 192.6  | 191.1  | 188.0  |
| 82.5°  | 139.8  | 136.7  | 136.7  | 133.6  | 133.6  |
| 85°    | 85.4   | 87.0   | 87.0   | 85.4   | 82.3   |
| 87.5°  | 41.9   | 41.9   | 40.4   | 40.4   | 37.3   |
| 90°    | 1.2    | 10.4   | 18.5   | 24.3   | 27.7   |
| 92.5°  | 21.9   | 11.5   | 18.5   | 24.3   | 25.4   |
| 95°    | 65.8   | 62.4   | 18.5   | 24.3   | 24.3   |
| 97.5°  | 123.6  | 130.5  | 20.8   | 23.1   | 24.3   |
| 100°   | 192.9  | 196.3  | 201.0  | 28.9   | 24.3   |
| 102.5° | 263.3  | 267.9  | 270.2  | 272.6  | 175.5  |
| 105°   | 339.5  | 344.2  | 344.2  | 344.2  | 343.0  |
| 107.5° | 418.1  | 418.1  | 420.4  | 421.5  | 416.9  |
| 110°   | 494.3  | 494.3  | 496.6  | 493.1  | 494.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 565.9  | 569.4  | 570.5  | 565.9  | 563.6  |
| 115°   | 637.5  | 643.3  | 644.4  | 639.8  | 632.9  |
| 117.5° | 712.6  | 712.6  | 717.2  | 710.3  | 707.9  |
| 120°   | 781.9  | 780.7  | 784.2  | 781.9  | 776.1  |
| 122.5° | 843.1  | 848.8  | 850.0  | 847.7  | 840.8  |
| 125°   | 906.6  | 914.7  | 914.7  | 910.1  | 906.6  |
| 127.5° | 967.8  | 973.6  | 972.4  | 970.1  | 960.9  |
| 130°   | 1023.2 | 1029.0 | 1030.2 | 1026.7 | 1020.9 |
| 132.5° | 1078.7 | 1085.6 | 1082.1 | 1082.1 | 1076.4 |
| 135°   | 1130.6 | 1137.6 | 1135.3 | 1132.9 | 1126.0 |
| 137.5° | 1179.1 | 1186.1 | 1183.8 | 1183.8 | 1178.0 |
| 140°   | 1226.5 | 1228.8 | 1227.6 | 1230.0 | 1223.0 |
| 142.5° | 1269.2 | 1270.4 | 1272.7 | 1272.7 | 1265.8 |
| 145°   | 1310.8 | 1313.1 | 1313.1 | 1314.3 | 1307.3 |
| 147.5° | 1347.8 | 1347.8 | 1348.9 | 1350.1 | 1342.0 |
| 150°   | 1382.4 | 1380.1 | 1382.4 | 1384.7 | 1375.5 |
| 152.5° | 1415.9 | 1410.1 | 1412.4 | 1414.7 | 1406.7 |
| 155°   | 1443.6 | 1436.7 | 1439.0 | 1442.5 | 1433.2 |
| 157.5° | 1465.6 | 1462.1 | 1462.1 | 1465.6 | 1456.3 |
| 160°   | 1488.7 | 1481.7 | 1482.9 | 1487.5 | 1478.3 |
| 162.5° | 1507.1 | 1500.2 | 1501.4 | 1508.3 | 1497.9 |
| 165°   | 1523.3 | 1516.4 | 1517.5 | 1524.5 | 1515.2 |
| 167.5° | 1536.0 | 1529.1 | 1530.2 | 1538.3 | 1527.9 |
| 170°   | 1546.4 | 1538.3 | 1539.5 | 1548.7 | 1538.3 |
| 172.5° | 1553.3 | 1545.2 | 1547.6 | 1555.6 | 1545.2 |
| 175°   | 1557.9 | 1551.0 | 1552.2 | 1561.4 | 1551.0 |
| 177.5° | 1561.4 | 1554.5 | 1555.6 | 1563.7 | 1554.5 |
| 180°   | 1557.9 | 1557.9 | 1557.9 | 1557.9 | 1557.9 |

(END OF REPORT)