

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: P1035812

Luminaire Tested: S125RDIW-B1270D1560UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035812  
REPORT IS A COMBINATION OF REPORTS P1006230 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIW-B1270D1560UB27-4F0-XX-W2A-F  
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}  
{m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

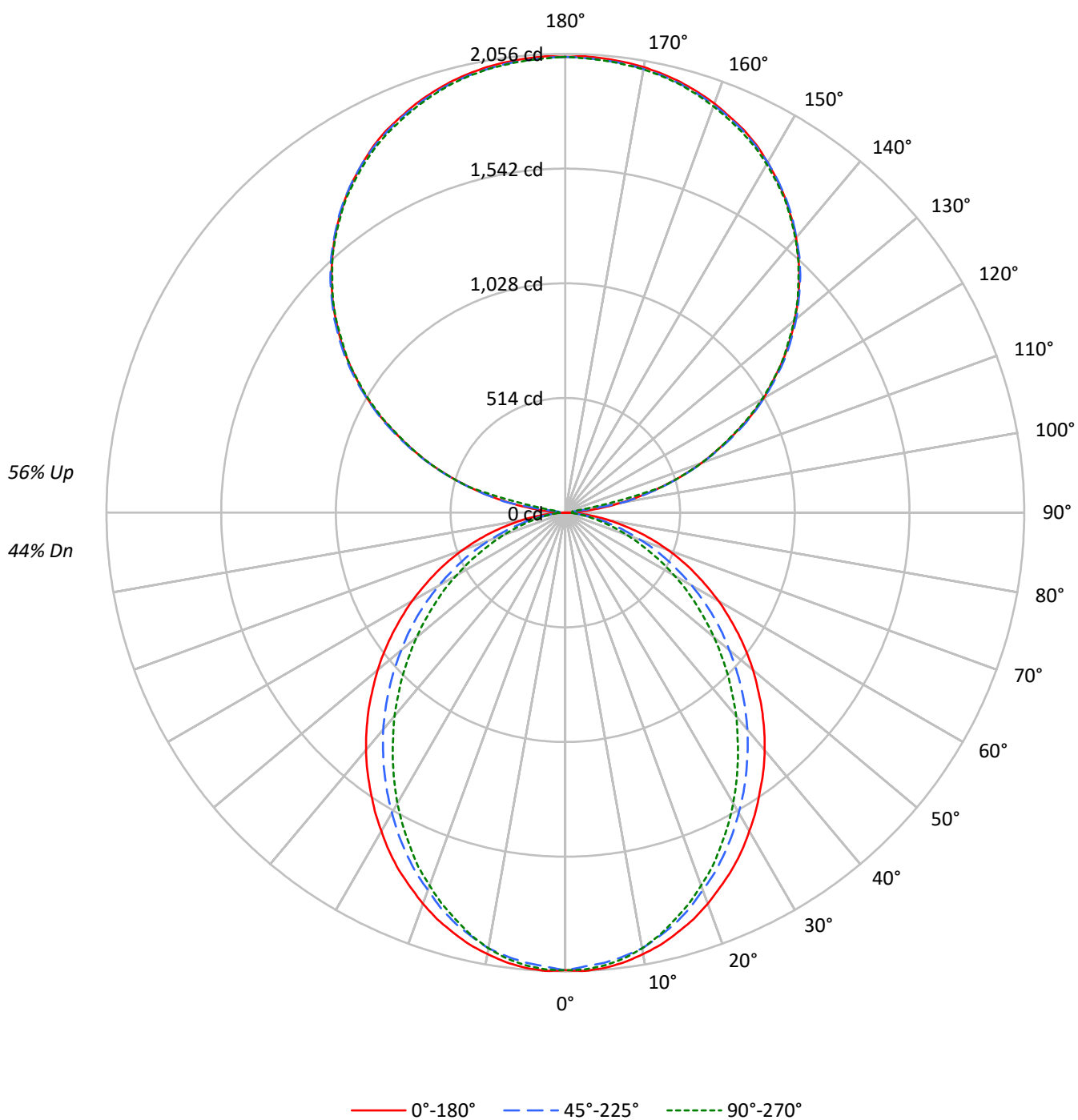
Lumens per Lamp: N/A  
Luminaire Lumens: 11124.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 113.5  
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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 |
| 1   | 97  | 92  | 89  | 85  | 88 | 85 | 81 | 79 | 70 | 68 | 66 | 57 | 55 | 54 | 45 | 44 | 43 |
| 2   | 88  | 81  | 75  | 70  | 80 | 74 | 69 | 65 | 62 | 58 | 55 | 50 | 48 | 45 | 40 | 38 | 36 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 41 | 39 | 35 | 33 | 31 |
| 4   | 74  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 49 | 44 | 40 | 40 | 36 | 33 | 32 | 29 | 27 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 43 | 38 | 34 | 36 | 32 | 29 | 28 | 26 | 24 |
| 6   | 62  | 50  | 42  | 37  | 57 | 47 | 40 | 34 | 39 | 34 | 30 | 32 | 28 | 25 | 26 | 23 | 21 |
| 7   | 58  | 46  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 19 |
| 8   | 53  | 41  | 34  | 29  | 49 | 38 | 31 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 15 |
| 10  | 46  | 35  | 27  | 23  | 43 | 32 | 26 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13142 | 13142 | 13142 |
| 5°  | 13143 | 12814 | 12834 |
| 10° | 13015 | 12491 | 12381 |
| 15° | 12831 | 12039 | 11785 |
| 20° | 12603 | 11495 | 11159 |
| 25° | 12341 | 10964 | 10488 |
| 30° | 12021 | 10380 | 9784  |
| 35° | 11694 | 9788  | 9036  |
| 40° | 11384 | 9179  | 8305  |
| 45° | 11010 | 8521  | 7540  |
| 50° | 10632 | 7823  | 6760  |
| 55° | 10192 | 7137  | 5954  |
| 60° | 9742  | 6351  | 5116  |
| 65° | 9206  | 5473  | 4213  |
| 70° | 8580  | 4455  | 3316  |
| 75° | 7717  | 3350  | 2417  |
| 80° | 6508  | 2169  | 1630  |
| 85° | 4871  | 1166  | 919   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11010 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 193.0   | 1.7       |
| 10°-20°   | 539.5   | 4.8       |
| 20°-30°   | 782.2   | 7.0       |
| 30°-40°   | 891.2   | 8.0       |
| 40°-50°   | 868.6   | 7.8       |
| 50°-60°   | 731.0   | 6.6       |
| 60°-70°   | 512.3   | 4.6       |
| 70°-80°   | 262.6   | 2.4       |
| 80°-90°   | 68.5    | 0.6       |
| 90°-100°  | 69.3    | 0.6       |
| 100°-110° | 461.0   | 4.1       |
| 110°-120° | 830.2   | 7.5       |
| 120°-130° | 1065.6  | 9.6       |
| 130°-140° | 1146.1  | 10.3      |
| 140°-150° | 1075.7  | 9.7       |
| 150°-160° | 870.1   | 7.8       |
| 160°-170° | 562.7   | 5.1       |
| 170°-180° | 194.1   | 1.7       |
| 0°-30°    | 1514.8  | 13.6      |
| 0°-40°    | 2405.9  | 21.6      |
| 0°-60°    | 4005.6  | 36.0      |
| 0°-90°    | 4849.0  | 43.6      |
| 90°-120°  | 1360.6  | 12.2      |
| 90°-150°  | 4648.1  | 41.8      |
| 90°-180°  | 6275.0  | 56.4      |
| 0°-180°   | 11124.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2051 | 2051  | 2051 | 2051  | 2051 |      |
| 5°   | 2048 | 2042  | 2025 | 2040  | 2037 | 194  |
| 15°  | 1947 | 1938  | 1906 | 1904  | 1890 | 549  |
| 25°  | 1766 | 1743  | 1686 | 1665  | 1648 | 813  |
| 35°  | 1521 | 1484  | 1414 | 1370  | 1348 | 953  |
| 45°  | 1246 | 1201  | 1115 | 1053  | 1030 | 961  |
| 55°  | 945  | 895   | 809  | 739   | 714  | 845  |
| 65°  | 640  | 587   | 505  | 443   | 420  | 634  |
| 75°  | 341  | 294   | 229  | 195   | 184  | 360  |
| 85°  | 85   | 57    | 50   | 48    | 46   | 93   |
| 90°  | 2    | 14    | 24   | 32    | 36   | 9    |
| 95°  | 86   | 82    | 24   | 32    | 32   | 106  |
| 105° | 445  | 451   | 451  | 451   | 450  | 472  |
| 115° | 836  | 844   | 845  | 839   | 830  | 829  |
| 125° | 1189 | 1199  | 1199 | 1193  | 1189 | 1062 |
| 135° | 1482 | 1492  | 1488 | 1486  | 1476 | 1143 |
| 145° | 1719 | 1722  | 1722 | 1723  | 1714 | 1075 |
| 155° | 1893 | 1884  | 1887 | 1891  | 1879 | 872  |
| 165° | 1997 | 1988  | 1990 | 1999  | 1987 | 564  |
| 175° | 2043 | 2034  | 2035 | 2047  | 2034 | 195  |
| 180° | 2043 | 2043  | 2043 | 2043  | 2043 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2051.1 | 2051.1 | 2051.1 | 2051.1 | 2051.1 |
| 2.5°   | 2055.7 | 2051.1 | 2035.6 | 2051.1 | 2049.5 |
| 5°     | 2048.0 | 2041.8 | 2024.8 | 2040.2 | 2037.1 |
| 7.5°   | 2032.5 | 2026.3 | 2006.2 | 2018.6 | 2015.5 |
| 10°    | 2009.3 | 2004.6 | 1982.9 | 1987.6 | 1982.9 |
| 12.5°  | 1982.9 | 1976.7 | 1945.7 | 1948.8 | 1941.1 |
| 15°    | 1947.3 | 1938.0 | 1905.5 | 1903.9 | 1890.0 |
| 17.5°  | 1910.1 | 1896.2 | 1857.4 | 1849.7 | 1838.9 |
| 20°    | 1865.2 | 1849.7 | 1800.1 | 1792.4 | 1778.4 |
| 22.5°  | 1815.6 | 1800.1 | 1747.5 | 1730.4 | 1719.6 |
| 25°    | 1766.0 | 1742.8 | 1685.5 | 1665.4 | 1648.3 |
| 27.5°  | 1710.3 | 1682.4 | 1622.0 | 1595.6 | 1578.6 |
| 30°    | 1648.3 | 1618.9 | 1553.8 | 1518.2 | 1504.2 |
| 32.5°  | 1587.9 | 1552.3 | 1485.6 | 1445.4 | 1426.8 |
| 35°    | 1521.3 | 1484.1 | 1414.4 | 1369.5 | 1347.8 |
| 37.5°  | 1457.8 | 1412.8 | 1341.6 | 1288.9 | 1267.2 |
| 40°    | 1389.6 | 1343.1 | 1268.8 | 1209.9 | 1191.3 |
| 42.5°  | 1318.3 | 1270.3 | 1192.9 | 1137.1 | 1107.7 |
| 45°    | 1245.5 | 1200.6 | 1115.4 | 1053.4 | 1030.2 |
| 47.5°  | 1169.6 | 1123.1 | 1037.9 | 974.4  | 948.1  |
| 50°    | 1098.4 | 1047.2 | 958.9  | 893.9  | 870.6  |
| 52.5°  | 1020.9 | 968.2  | 886.1  | 814.9  | 791.6  |
| 55°    | 945.0  | 895.4  | 808.7  | 739.0  | 714.2  |
| 57.5°  | 867.5  | 814.9  | 731.2  | 663.0  | 641.4  |
| 60°    | 793.2  | 739.0  | 655.3  | 587.1  | 563.9  |
| 62.5°  | 714.2  | 663.0  | 577.8  | 515.9  | 492.6  |
| 65°    | 639.8  | 587.1  | 505.0  | 443.1  | 419.8  |
| 67.5°  | 565.4  | 512.8  | 433.8  | 374.9  | 356.3  |
| 70°    | 489.5  | 436.9  | 359.4  | 311.4  | 292.8  |
| 72.5°  | 415.2  | 364.1  | 292.8  | 249.4  | 238.6  |
| 75°    | 340.8  | 294.3  | 229.3  | 195.2  | 184.4  |
| 77.5°  | 264.9  | 227.7  | 173.5  | 147.2  | 137.9  |
| 80°    | 201.4  | 164.2  | 120.8  | 106.9  | 103.8  |
| 82.5°  | 139.4  | 106.9  | 80.6   | 75.9   | 74.4   |
| 85°    | 85.2   | 57.3   | 49.6   | 48.0   | 46.5   |
| 87.5°  | 35.6   | 24.8   | 23.2   | 23.2   | 21.7   |
| 90°    | 1.5    | 13.6   | 24.2   | 31.8   | 36.3   |
| 92.5°  | 28.8   | 15.1   | 24.2   | 31.8   | 33.3   |
| 95°    | 86.3   | 81.8   | 24.2   | 31.8   | 31.8   |
| 97.5°  | 162.0  | 171.1  | 27.3   | 30.3   | 31.8   |
| 100°   | 252.9  | 257.4  | 263.5  | 37.9   | 31.8   |
| 102.5° | 345.3  | 351.3  | 354.3  | 357.4  | 230.2  |
| 105°   | 445.2  | 451.3  | 451.3  | 451.3  | 449.7  |
| 107.5° | 548.2  | 548.2  | 551.2  | 552.7  | 546.7  |
| 110°   | 648.1  | 648.1  | 651.1  | 646.6  | 648.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 742.0  | 746.5  | 748.1  | 742.0  | 739.0  |
| 115°   | 835.9  | 843.5  | 845.0  | 838.9  | 829.8  |
| 117.5° | 934.3  | 934.3  | 940.4  | 931.3  | 928.3  |
| 120°   | 1025.2 | 1023.7 | 1028.2 | 1025.2 | 1017.6 |
| 122.5° | 1105.4 | 1113.0 | 1114.5 | 1111.5 | 1102.4 |
| 125°   | 1188.7 | 1199.3 | 1199.3 | 1193.3 | 1188.7 |
| 127.5° | 1269.0 | 1276.5 | 1275.0 | 1272.0 | 1259.9 |
| 130°   | 1341.7 | 1349.2 | 1350.7 | 1346.2 | 1338.6 |
| 132.5° | 1414.3 | 1423.4 | 1418.9 | 1418.9 | 1411.3 |
| 135°   | 1482.5 | 1491.6 | 1488.5 | 1485.5 | 1476.4 |
| 137.5° | 1546.1 | 1555.2 | 1552.1 | 1552.1 | 1544.6 |
| 140°   | 1608.2 | 1611.2 | 1609.7 | 1612.7 | 1603.6 |
| 142.5° | 1664.2 | 1665.7 | 1668.7 | 1668.7 | 1659.7 |
| 145°   | 1718.7 | 1721.7 | 1721.7 | 1723.3 | 1714.2 |
| 147.5° | 1767.2 | 1767.2 | 1768.7 | 1770.2 | 1759.6 |
| 150°   | 1812.6 | 1809.6 | 1812.6 | 1815.6 | 1803.5 |
| 152.5° | 1856.5 | 1848.9 | 1852.0 | 1855.0 | 1844.4 |
| 155°   | 1892.9 | 1883.8 | 1886.8 | 1891.3 | 1879.2 |
| 157.5° | 1921.6 | 1917.1 | 1917.1 | 1921.6 | 1909.5 |
| 160°   | 1951.9 | 1942.8 | 1944.3 | 1950.4 | 1938.3 |
| 162.5° | 1976.1 | 1967.1 | 1968.6 | 1977.7 | 1964.0 |
| 165°   | 1997.3 | 1988.3 | 1989.8 | 1998.9 | 1986.7 |
| 167.5° | 2014.0 | 2004.9 | 2006.4 | 2017.0 | 2003.4 |
| 170°   | 2027.6 | 2017.0 | 2018.5 | 2030.7 | 2017.0 |
| 172.5° | 2036.7 | 2026.1 | 2029.1 | 2039.7 | 2026.1 |
| 175°   | 2042.8 | 2033.7 | 2035.2 | 2047.3 | 2033.7 |
| 177.5° | 2047.3 | 2038.2 | 2039.7 | 2050.3 | 2038.2 |
| 180°   | 2042.8 | 2042.8 | 2042.8 | 2042.8 | 2042.8 |

(END OF REPORT)