

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: P1028627

Luminaire Tested: S125RDIP-B1270D375UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1028627  
REPORT IS A COMBINATION OF REPORTS P1005204 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIP-B1270D375UB27-4F0-XX-W2A-F4  
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}  
{m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

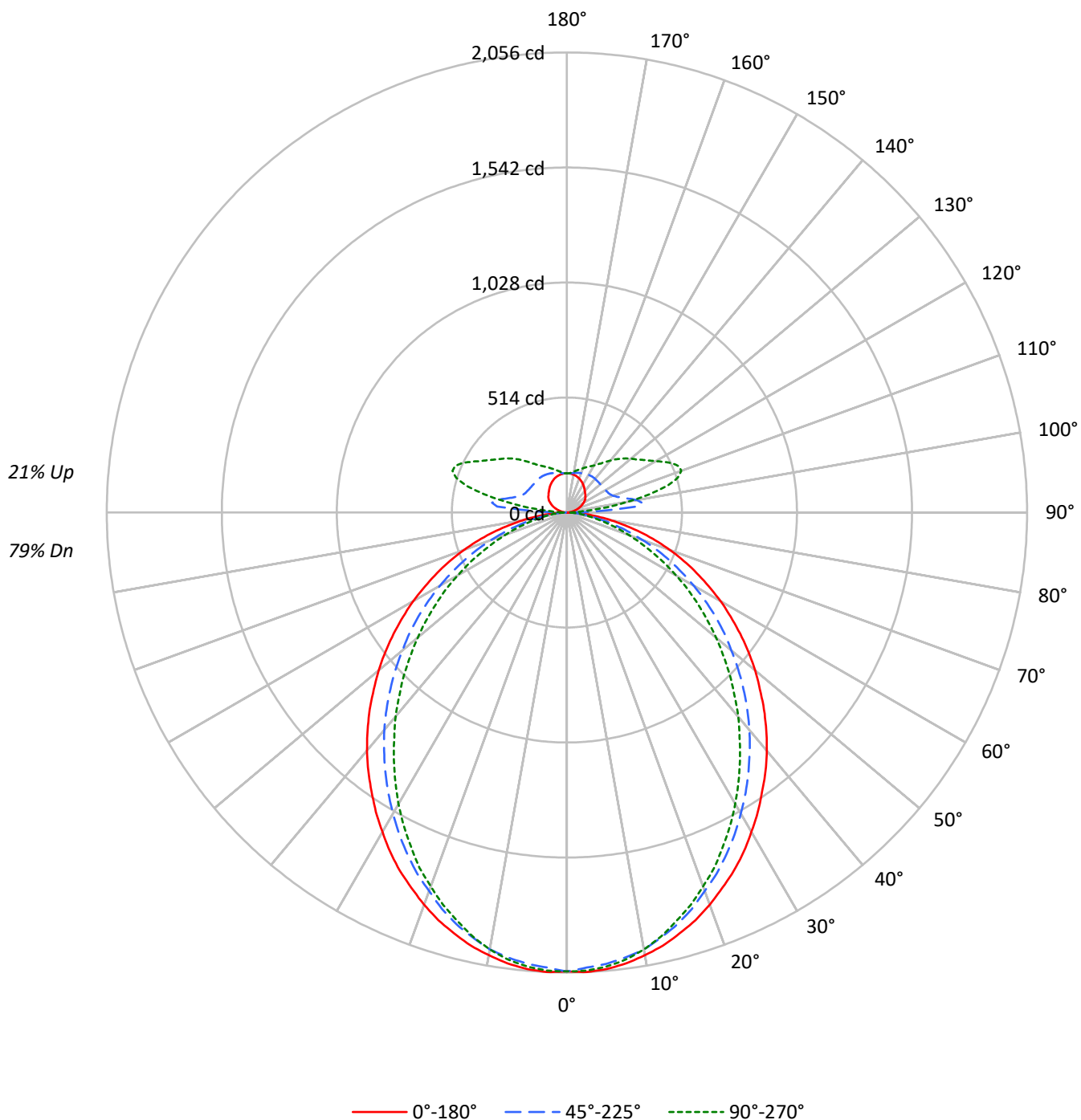
Lumens per Lamp: N/A  
Luminaire Lumens: 6162.7 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 70.6  
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   | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 99 | 99 | 99 |  | 90 | 90 | 90 |  | 82 |
| 1   | 105 | 100 | 96  | 93  | 100 | 96  | 92  | 89  | 88 | 85 | 83 |  | 80 | 78 | 76 |  | 74 |
| 2   | 96  | 88  | 82  | 76  | 91  | 84  | 79  | 74  | 77 | 73 | 69 |  | 71 | 67 | 64 |  | 65 |
| 3   | 87  | 78  | 70  | 64  | 83  | 75  | 68  | 62  | 69 | 63 | 58 |  | 63 | 59 | 55 |  | 58 |
| 4   | 80  | 69  | 61  | 55  | 76  | 66  | 59  | 53  | 61 | 55 | 50 |  | 56 | 51 | 47 |  | 52 |
| 5   | 74  | 62  | 53  | 47  | 70  | 60  | 52  | 46  | 55 | 49 | 44 |  | 51 | 46 | 41 |  | 47 |
| 6   | 68  | 56  | 47  | 41  | 65  | 54  | 46  | 40  | 50 | 43 | 38 |  | 46 | 41 | 36 |  | 43 |
| 7   | 63  | 51  | 42  | 37  | 60  | 49  | 41  | 36  | 45 | 39 | 34 |  | 42 | 37 | 32 |  | 39 |
| 8   | 59  | 46  | 38  | 33  | 56  | 45  | 37  | 32  | 42 | 35 | 31 |  | 39 | 33 | 29 |  | 36 |
| 9   | 55  | 42  | 35  | 29  | 53  | 41  | 34  | 29  | 38 | 32 | 28 |  | 36 | 30 | 26 |  | 33 |
| 10  | 52  | 39  | 32  | 27  | 49  | 38  | 31  | 26  | 35 | 29 | 25 |  | 33 | 28 | 24 |  | 31 |

**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  | 3.1       |
| 10°-20°   | 539.5  | 8.8       |
| 20°-30°   | 782.2  | 12.7      |
| 30°-40°   | 891.2  | 14.5      |
| 40°-50°   | 868.6  | 14.1      |
| 50°-60°   | 731.0  | 11.9      |
| 60°-70°   | 512.3  | 8.3       |
| 70°-80°   | 262.6  | 4.3       |
| 80°-90°   | 66.2   | 1.1       |
| 90°-100°  | 131.7  | 2.1       |
| 100°-110° | 273.5  | 4.4       |
| 110°-120° | 255.5  | 4.1       |
| 120°-130° | 206.7  | 3.4       |
| 130°-140° | 166.1  | 2.7       |
| 140°-150° | 125.4  | 2.0       |
| 150°-160° | 88.3   | 1.4       |
| 160°-170° | 52.0   | 0.8       |
| 170°-180° | 16.9   | 0.3       |
| 0°-30°    | 1514.8 | 24.6      |
| 0°-40°    | 2405.9 | 39.0      |
| 0°-60°    | 4005.6 | 65.0      |
| 0°-90°    | 4846.7 | 78.6      |
| 90°-120°  | 660.6  | 10.7      |
| 90°-150°  | 1158.8 | 18.8      |
| 90°-180°  | 1316.0 | 21.4      |
| 0°-180°   | 6162.7 | 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°  | 0    | 3     | 6    | 7     | 8    | 6    |
| 95°  | 12   | 34    | 312  | 142   | 83   | 12   |
| 105° | 40   | 56    | 256  | 503   | 467  | 42   |
| 115° | 71   | 86    | 205  | 442   | 520  | 70   |
| 125° | 99   | 116   | 197  | 352   | 410  | 88   |
| 135° | 116  | 139   | 195  | 295   | 340  | 90   |
| 145° | 135  | 154   | 196  | 244   | 269  | 84   |
| 155° | 154  | 165   | 191  | 216   | 225  | 71   |
| 165° | 168  | 172   | 183  | 194   | 197  | 47   |
| 175° | 174  | 174   | 176  | 178   | 177  | 17   |
| 180° | 175  | 175   | 175  | 175   | 175  |      |

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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°    | 0.4    | 3.2    | 5.6    | 7.4    | 8.1    |
| 92.5°  | 5.3    | 29.0   | 140.7  | 37.6   | 26.1   |
| 95°    | 11.6   | 34.3   | 312.3  | 141.7  | 82.8   |
| 97.5°  | 18.0   | 37.2   | 337.4  | 256.0  | 181.5  |
| 100°   | 24.7   | 42.6   | 318.3  | 361.7  | 275.0  |
| 102.5° | 32.1   | 48.8   | 284.8  | 451.2  | 379.3  |
| 105°   | 39.8   | 55.7   | 255.6  | 503.2  | 467.1  |
| 107.5° | 47.2   | 62.9   | 233.7  | 517.8  | 520.0  |
| 110°   | 55.3   | 70.5   | 219.3  | 503.9  | 543.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 63.5  | 78.1  | 210.8 | 474.8 | 541.1 |
| 115°   | 71.2  | 85.8  | 205.2 | 442.2 | 520.3 |
| 117.5° | 78.3  | 93.8  | 202.0 | 412.6 | 488.9 |
| 120°   | 85.3  | 101.4 | 199.9 | 387.8 | 458.6 |
| 122.5° | 92.7  | 108.8 | 198.1 | 367.8 | 431.8 |
| 125°   | 98.7  | 115.6 | 196.7 | 351.8 | 410.0 |
| 127.5° | 103.6 | 122.3 | 196.0 | 338.1 | 389.9 |
| 130°   | 108.2 | 128.7 | 195.3 | 324.2 | 374.0 |
| 132.5° | 111.7 | 134.3 | 195.3 | 309.2 | 358.2 |
| 135°   | 115.6 | 139.0 | 195.3 | 294.8 | 340.5 |
| 137.5° | 120.6 | 143.4 | 195.7 | 279.9 | 322.2 |
| 140°   | 124.8 | 147.2 | 196.0 | 266.2 | 302.8 |
| 142.5° | 129.7 | 150.7 | 196.4 | 254.4 | 284.8 |
| 145°   | 134.7 | 154.2 | 196.0 | 244.2 | 268.6 |
| 147.5° | 140.0 | 157.4 | 195.3 | 235.3 | 254.2 |
| 150°   | 144.5 | 160.2 | 194.2 | 228.1 | 242.5 |
| 152.5° | 149.5 | 163.0 | 192.8 | 221.9 | 233.4 |
| 155°   | 153.7 | 165.4 | 191.1 | 216.0 | 225.3 |
| 157.5° | 157.6 | 167.6 | 189.3 | 210.3 | 217.9 |
| 160°   | 161.5 | 169.4 | 187.5 | 204.6 | 210.5 |
| 162.5° | 164.6 | 171.2 | 185.4 | 199.6 | 203.8 |
| 165°   | 167.8 | 172.4 | 183.3 | 194.4 | 197.4 |
| 167.5° | 169.9 | 173.1 | 181.2 | 189.7 | 191.4 |
| 170°   | 172.0 | 174.0 | 179.4 | 185.0 | 186.1 |
| 172.5° | 173.4 | 174.3 | 177.3 | 181.4 | 181.2 |
| 175°   | 174.5 | 174.5 | 175.9 | 178.0 | 177.3 |
| 177.5° | 175.2 | 174.5 | 174.9 | 175.9 | 174.9 |
| 180°   | 174.9 | 174.9 | 174.9 | 174.9 | 174.9 |

(END OF REPORT)