

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: P1027433

Luminaire Tested: S125DIP-B1090D375UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027433  
REPORT IS A COMBINATION OF REPORTS P1001393 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B1090D375UB50-4F0-XX-W2A-D  
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

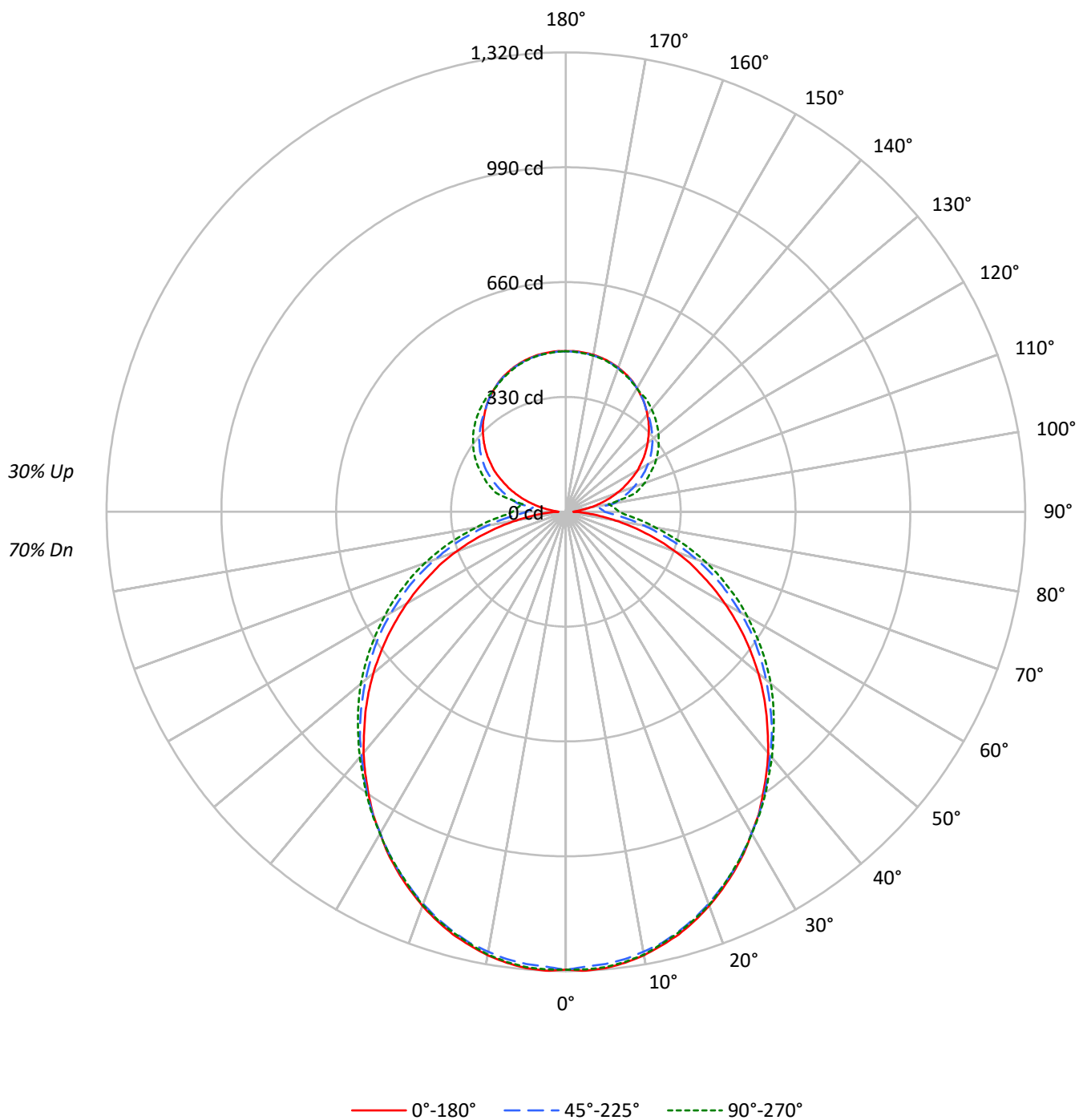
Lumens per Lamp: N/A  
Luminaire Lumens: 5495.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 56.1  
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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 84 | 84 | 84 | 74 | 74 | 74 |
| 1   | 101 | 96  | 92  | 88  | 95  | 91  | 87  | 84  | 81 | 78 | 75 | 72 | 70 | 68 | 64 | 62 | 61 |
| 2   | 92  | 84  | 77  | 71  | 86  | 79  | 73  | 68  | 71 | 66 | 62 | 63 | 59 | 56 | 56 | 53 | 50 |
| 3   | 83  | 73  | 65  | 59  | 78  | 69  | 62  | 56  | 62 | 56 | 51 | 55 | 51 | 47 | 49 | 45 | 42 |
| 4   | 76  | 65  | 56  | 50  | 72  | 61  | 54  | 48  | 55 | 49 | 44 | 49 | 44 | 40 | 44 | 40 | 36 |
| 5   | 70  | 58  | 49  | 42  | 66  | 55  | 47  | 41  | 49 | 43 | 38 | 44 | 39 | 34 | 39 | 35 | 31 |
| 6   | 65  | 52  | 43  | 37  | 61  | 49  | 41  | 35  | 44 | 38 | 33 | 40 | 34 | 30 | 36 | 31 | 28 |
| 7   | 60  | 47  | 38  | 32  | 56  | 44  | 37  | 31  | 40 | 34 | 29 | 36 | 31 | 27 | 32 | 28 | 24 |
| 8   | 55  | 42  | 34  | 29  | 52  | 40  | 33  | 28  | 37 | 30 | 26 | 33 | 28 | 24 | 30 | 25 | 22 |
| 9   | 52  | 39  | 31  | 26  | 49  | 37  | 30  | 25  | 34 | 27 | 23 | 31 | 25 | 21 | 28 | 23 | 20 |
| 10  | 48  | 36  | 28  | 23  | 46  | 34  | 27  | 22  | 31 | 25 | 21 | 28 | 23 | 19 | 26 | 21 | 18 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8432 | 8432 | 8432 |
| 5°  | 8446 | 8256 | 8275 |
| 10° | 8382 | 8087 | 8064 |
| 15° | 8280 | 7891 | 7804 |
| 20° | 8143 | 7655 | 7545 |
| 25° | 7980 | 7403 | 7233 |
| 30° | 7782 | 7129 | 6949 |
| 35° | 7598 | 6875 | 6687 |
| 40° | 7410 | 6609 | 6423 |
| 45° | 7198 | 6378 | 6185 |
| 50° | 6994 | 6126 | 5971 |
| 55° | 6749 | 5888 | 5722 |
| 60° | 6481 | 5614 | 5467 |
| 65° | 6202 | 5327 | 5180 |
| 70° | 5881 | 4943 | 4881 |
| 75° | 5375 | 4562 | 4516 |
| 80° | 4712 | 4101 | 4112 |
| 85° | 4059 | 3732 | 3899 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.5  | 2.3       |
| 10°-20°   | 353.5  | 6.4       |
| 20°-30°   | 525.7  | 9.6       |
| 30°-40°   | 622.6  | 11.3      |
| 40°-50°   | 643.7  | 11.7      |
| 50°-60°   | 593.0  | 10.8      |
| 60°-70°   | 479.3  | 8.7       |
| 70°-80°   | 320.7  | 5.8       |
| 80°-90°   | 166.5  | 3.0       |
| 90°-100°  | 109.0  | 2.0       |
| 100°-110° | 173.0  | 3.1       |
| 110°-120° | 233.6  | 4.3       |
| 120°-130° | 266.8  | 4.9       |
| 130°-140° | 270.3  | 4.9       |
| 140°-150° | 245.2  | 4.5       |
| 150°-160° | 196.5  | 3.6       |
| 160°-170° | 127.1  | 2.3       |
| 170°-180° | 43.8   | 0.8       |
| 0°-30°    | 1003.8 | 18.3      |
| 0°-40°    | 1626.4 | 29.6      |
| 0°-60°    | 2863.1 | 52.1      |
| 0°-90°    | 3829.6 | 69.7      |
| 90°-120°  | 515.6  | 9.4       |
| 90°-150°  | 1297.9 | 23.6      |
| 90°-180°  | 1665.0 | 30.3      |
| 0°-180°   | 5495.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1316 | 1316  | 1316 | 1316  | 1316 |      |
| 5°   | 1316 | 1314  | 1304 | 1315  | 1314 | 125  |
| 15°  | 1257 | 1258  | 1249 | 1257  | 1252 | 354  |
| 25°  | 1142 | 1146  | 1138 | 1143  | 1137 | 526  |
| 35°  | 988  | 997   | 994  | 997   | 997  | 619  |
| 45°  | 814  | 828   | 835  | 844   | 845  | 628  |
| 55°  | 626  | 646   | 667  | 681   | 686  | 559  |
| 65°  | 431  | 461   | 492  | 511   | 516  | 428  |
| 75°  | 237  | 271   | 312  | 338   | 344  | 252  |
| 85°  | 71   | 114   | 159  | 187   | 197  | 74   |
| 90°  | 21   | 65    | 111  | 143   | 153  | 15   |
| 95°  | 36   | 69    | 100  | 130   | 139  | 37   |
| 105° | 112  | 134   | 173  | 199   | 207  | 119  |
| 115° | 196  | 207   | 241  | 263   | 269  | 195  |
| 125° | 274  | 275   | 301  | 320   | 325  | 244  |
| 135° | 337  | 338   | 346  | 363   | 367  | 260  |
| 145° | 390  | 389   | 389  | 396   | 399  | 243  |
| 155° | 428  | 426   | 426  | 427   | 424  | 197  |
| 165° | 451  | 449   | 449  | 452   | 449  | 127  |
| 175° | 461  | 459   | 460  | 462   | 459  | 44   |
| 180° | 461  | 461   | 461  | 461   | 461  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1316.1 | 1316.1 | 1316.1 | 1316.1 | 1316.1 |
| 2.5°   | 1320.0 | 1317.4 | 1308.3 | 1317.4 | 1316.1 |
| 5°     | 1316.1 | 1313.5 | 1304.5 | 1314.8 | 1313.5 |
| 7.5°   | 1307.1 | 1305.8 | 1296.7 | 1305.8 | 1304.5 |
| 10°    | 1294.1 | 1294.1 | 1283.8 | 1292.9 | 1291.6 |
| 12.5°  | 1276.1 | 1277.4 | 1269.6 | 1276.1 | 1272.2 |
| 15°    | 1256.7 | 1258.0 | 1249.0 | 1256.7 | 1251.6 |
| 17.5°  | 1232.2 | 1234.8 | 1225.8 | 1232.2 | 1228.3 |
| 20°    | 1205.1 | 1207.7 | 1198.7 | 1202.5 | 1202.5 |
| 22.5°  | 1174.2 | 1179.3 | 1169.0 | 1174.2 | 1170.3 |
| 25°    | 1141.9 | 1145.8 | 1138.0 | 1143.2 | 1136.7 |
| 27.5°  | 1107.1 | 1112.2 | 1103.2 | 1107.1 | 1104.5 |
| 30°    | 1067.1 | 1074.8 | 1067.1 | 1069.6 | 1068.4 |
| 32.5°  | 1030.9 | 1037.4 | 1032.2 | 1034.8 | 1033.5 |
| 35°    | 988.4  | 997.4  | 993.5  | 997.4  | 997.4  |
| 37.5°  | 947.1  | 954.8  | 953.5  | 958.7  | 957.4  |
| 40°    | 904.5  | 914.8  | 913.5  | 918.7  | 921.3  |
| 42.5°  | 858.0  | 872.2  | 876.1  | 882.6  | 882.6  |
| 45°    | 814.2  | 828.4  | 834.8  | 843.8  | 845.1  |
| 47.5°  | 769.0  | 781.9  | 792.2  | 805.1  | 807.7  |
| 50°    | 722.6  | 736.7  | 750.9  | 765.1  | 769.0  |
| 52.5°  | 673.5  | 691.6  | 709.7  | 725.1  | 727.7  |
| 55°    | 625.8  | 646.4  | 667.1  | 681.3  | 686.4  |
| 57.5°  | 576.8  | 601.3  | 624.5  | 640.0  | 643.8  |
| 60°    | 527.7  | 553.5  | 579.3  | 598.7  | 602.6  |
| 62.5°  | 480.0  | 505.8  | 534.2  | 556.1  | 561.3  |
| 65°    | 431.0  | 460.6  | 491.6  | 511.0  | 516.1  |
| 67.5°  | 385.8  | 414.2  | 445.1  | 468.4  | 474.8  |
| 70°    | 335.5  | 365.1  | 398.7  | 423.2  | 431.0  |
| 72.5°  | 286.4  | 317.4  | 354.8  | 381.9  | 387.1  |
| 75°    | 237.4  | 271.0  | 312.2  | 338.1  | 344.5  |
| 77.5°  | 189.7  | 228.4  | 267.1  | 295.5  | 300.6  |
| 80°    | 145.8  | 184.5  | 228.4  | 256.8  | 261.9  |
| 82.5°  | 105.8  | 147.1  | 192.3  | 219.3  | 229.7  |
| 85°    | 71.0   | 113.5  | 158.7  | 187.1  | 197.4  |
| 87.5°  | 45.2   | 86.4   | 130.3  | 160.0  | 169.0  |
| 90°    | 20.9   | 65.0   | 111.3  | 142.7  | 152.7  |
| 92.5°  | 24.6   | 58.9   | 106.1  | 136.2  | 145.6  |
| 95°    | 36.3   | 68.8   | 99.7   | 129.8  | 138.8  |
| 97.5°  | 52.1   | 85.1   | 95.2   | 122.9  | 132.4  |
| 100°   | 71.3   | 99.4   | 142.1  | 118.3  | 124.6  |
| 102.5° | 90.9   | 116.8  | 157.4  | 183.9  | 163.0  |
| 105°   | 112.2  | 134.2  | 172.9  | 198.7  | 207.4  |
| 107.5° | 134.1  | 152.2  | 190.3  | 216.4  | 222.9  |
| 110°   | 155.4  | 170.9  | 207.7  | 231.2  | 240.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 176.6 | 189.2 | 224.5 | 246.3 | 254.6 |
| 115°   | 196.5 | 207.3 | 241.2 | 263.0 | 268.7 |
| 117.5° | 217.5 | 223.9 | 257.6 | 277.4 | 285.8 |
| 120°   | 238.1 | 241.5 | 272.2 | 293.5 | 299.5 |
| 122.5° | 254.9 | 257.9 | 286.5 | 306.5 | 312.2 |
| 125°   | 273.7 | 274.8 | 300.6 | 319.8 | 325.3 |
| 127.5° | 290.5 | 290.9 | 312.5 | 331.2 | 336.2 |
| 130°   | 306.9 | 307.3 | 325.7 | 342.8 | 347.6 |
| 132.5° | 322.1 | 324.1 | 336.0 | 354.0 | 357.5 |
| 135°   | 337.4 | 338.2 | 346.5 | 362.6 | 367.0 |
| 137.5° | 351.8 | 352.6 | 357.1 | 372.5 | 376.0 |
| 140°   | 364.5 | 365.2 | 366.2 | 381.1 | 384.1 |
| 142.5° | 377.2 | 376.2 | 376.9 | 388.5 | 391.7 |
| 145°   | 389.5 | 388.9 | 388.9 | 395.7 | 398.8 |
| 147.5° | 399.1 | 399.1 | 399.5 | 402.4 | 402.6 |
| 150°   | 409.4 | 408.7 | 409.4 | 410.1 | 408.7 |
| 152.5° | 419.3 | 417.6 | 418.3 | 419.0 | 416.6 |
| 155°   | 427.5 | 425.5 | 426.2 | 427.2 | 424.5 |
| 157.5° | 434.0 | 433.0 | 433.0 | 434.0 | 431.3 |
| 160°   | 440.9 | 438.8 | 439.2 | 440.5 | 437.8 |
| 162.5° | 446.3 | 444.3 | 444.6 | 446.7 | 443.6 |
| 165°   | 451.1 | 449.1 | 449.4 | 451.5 | 448.7 |
| 167.5° | 454.9 | 452.8 | 453.2 | 455.6 | 452.5 |
| 170°   | 458.0 | 455.6 | 455.9 | 458.7 | 455.6 |
| 172.5° | 460.0 | 457.6 | 458.3 | 460.7 | 457.6 |
| 175°   | 461.4 | 459.3 | 459.7 | 462.4 | 459.3 |
| 177.5° | 462.4 | 460.4 | 460.7 | 463.1 | 460.4 |
| 180°   | 461.4 | 461.4 | 461.4 | 461.4 | 461.4 |

(END OF REPORT)