

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: P1011192

Luminaire Tested: S123DIP-B1000D585UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1011192  
REPORT IS A COMBINATION OF REPORTS P989255 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B1000D585UB50-4F0-XX-W2A-D4  
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

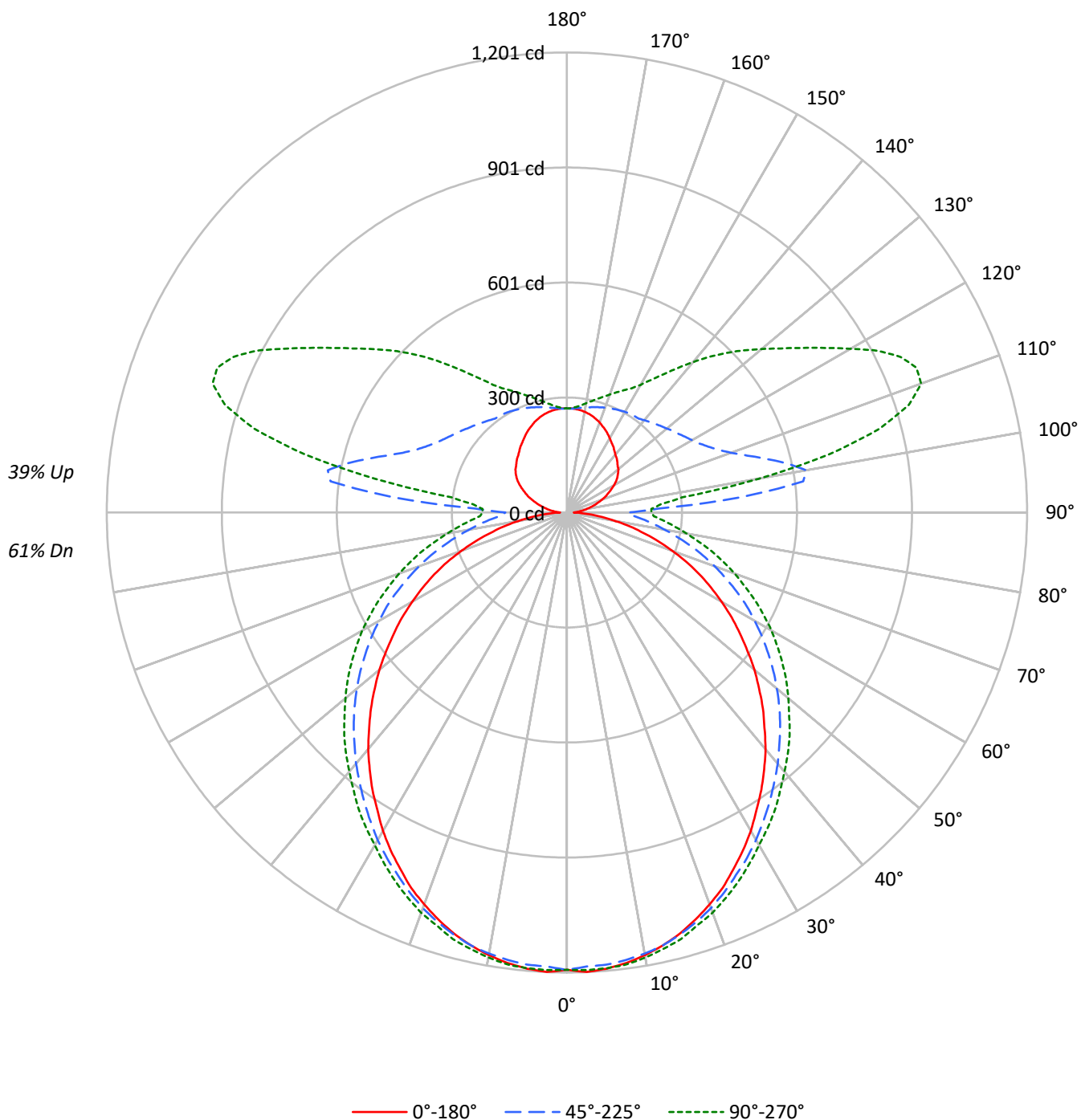
Lumens per Lamp: N/A  
Luminaire Lumens: 6061.7 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 62.2  
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   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 89 | 89 | 89 | 77 | 77 | 77 | 66 | 66 | 66 |
| 1   | 99  | 94  | 89  | 85  | 92  | 88  | 84  | 80  | 76 | 73 | 71 | 66 | 64 | 62 | 56 | 55 | 53 |
| 2   | 90  | 81  | 75  | 69  | 83  | 76  | 70  | 65  | 66 | 62 | 58 | 57 | 54 | 51 | 49 | 46 | 44 |
| 3   | 81  | 71  | 63  | 57  | 76  | 67  | 59  | 54  | 58 | 52 | 48 | 50 | 46 | 42 | 43 | 40 | 37 |
| 4   | 74  | 63  | 54  | 48  | 69  | 59  | 51  | 45  | 51 | 45 | 41 | 44 | 40 | 36 | 38 | 34 | 31 |
| 5   | 68  | 56  | 47  | 41  | 63  | 52  | 45  | 39  | 46 | 40 | 35 | 40 | 35 | 31 | 34 | 30 | 27 |
| 6   | 63  | 50  | 41  | 35  | 58  | 47  | 39  | 34  | 41 | 35 | 30 | 36 | 31 | 27 | 31 | 27 | 24 |
| 7   | 58  | 45  | 37  | 31  | 54  | 42  | 35  | 29  | 37 | 31 | 27 | 33 | 28 | 24 | 28 | 24 | 21 |
| 8   | 54  | 41  | 33  | 27  | 50  | 39  | 31  | 26  | 34 | 28 | 24 | 30 | 25 | 21 | 26 | 22 | 19 |
| 9   | 50  | 37  | 30  | 24  | 47  | 35  | 28  | 23  | 31 | 25 | 21 | 27 | 23 | 19 | 24 | 20 | 17 |
| 10  | 47  | 34  | 27  | 22  | 44  | 32  | 26  | 21  | 29 | 23 | 19 | 25 | 21 | 17 | 22 | 18 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12853 | 12853 | 12853 |
| 5°  | 12888 | 12476 | 12466 |
| 10° | 12768 | 12138 | 12046 |
| 15° | 12598 | 11764 | 11599 |
| 20° | 12358 | 11349 | 11120 |
| 25° | 12064 | 10880 | 10624 |
| 30° | 11761 | 10457 | 10127 |
| 35° | 11423 | 10011 | 9720  |
| 40° | 11100 | 9605  | 9292  |
| 45° | 10740 | 9211  | 8939  |
| 50° | 10386 | 8821  | 8555  |
| 55° | 9993  | 8421  | 8203  |
| 60° | 9609  | 8011  | 7840  |
| 65° | 9213  | 7575  | 7418  |
| 70° | 8620  | 7085  | 6983  |
| 75° | 7867  | 6528  | 6532  |
| 80° | 6993  | 5962  | 6019  |
| 85° | 6119  | 5505  | 5650  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10740 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.3  | 1.9       |
| 10°-20°   | 322.9  | 5.3       |
| 20°-30°   | 482.9  | 8.0       |
| 30°-40°   | 576.5  | 9.5       |
| 40°-50°   | 603.2  | 10.0      |
| 50°-60°   | 566.1  | 9.3       |
| 60°-70°   | 472.8  | 7.8       |
| 70°-80°   | 338.1  | 5.6       |
| 80°-90°   | 202.7  | 3.3       |
| 90°-100°  | 280.7  | 4.6       |
| 100°-110° | 524.2  | 8.6       |
| 110°-120° | 482.6  | 8.0       |
| 120°-130° | 370.3  | 6.1       |
| 130°-140° | 280.2  | 4.6       |
| 140°-150° | 200.5  | 3.3       |
| 150°-160° | 137.6  | 2.3       |
| 160°-170° | 80.8   | 1.3       |
| 170°-180° | 26.3   | 0.4       |
| 0°-30°    | 919.1  | 15.2      |
| 0°-40°    | 1495.6 | 24.7      |
| 0°-60°    | 2664.9 | 44.0      |
| 0°-90°    | 3678.5 | 60.7      |
| 90°-120°  | 1287.5 | 21.2      |
| 90°-150°  | 2138.5 | 35.3      |
| 90°-180°  | 2383.0 | 39.3      |
| 0°-180°   | 6061.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1194 | 1194  | 1194 | 1194  | 1194 |      |
| 5°   | 1195 | 1193  | 1185 | 1195  | 1194 | 113  |
| 15°  | 1138 | 1142  | 1141 | 1154  | 1152 | 321  |
| 25°  | 1028 | 1041  | 1044 | 1061  | 1061 | 474  |
| 35°  | 884  | 905   | 922  | 942   | 947  | 553  |
| 45°  | 723  | 754   | 787  | 812   | 822  | 558  |
| 55°  | 552  | 594   | 641  | 676   | 687  | 494  |
| 65°  | 381  | 432   | 489  | 528   | 541  | 377  |
| 75°  | 207  | 268   | 333  | 376   | 392  | 221  |
| 85°  | 64   | 129   | 198  | 242   | 255  | 66   |
| 90°  | 18   | 87    | 161  | 207   | 220  | 14   |
| 95°  | 33   | 126   | 455  | 264   | 246  | 31   |
| 105° | 74   | 136   | 540  | 907   | 845  | 78   |
| 115° | 119  | 162   | 407  | 841   | 961  | 118  |
| 125° | 161  | 189   | 357  | 641   | 749  | 143  |
| 135° | 186  | 220   | 327  | 510   | 589  | 144  |
| 145° | 211  | 240   | 307  | 396   | 440  | 132  |
| 155° | 238  | 257   | 297  | 338   | 352  | 109  |
| 165° | 260  | 267   | 285  | 302   | 307  | 73   |
| 175° | 271  | 271   | 273  | 277   | 276  | 26   |
| 180° | 272  | 272   | 272  | 272   | 272  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1194.1 | 1194.1 | 1194.1 | 1194.1 | 1194.1 |
| 2.5°   | 1200.6 | 1196.7 | 1186.3 | 1196.7 | 1195.4 |
| 5°     | 1195.4 | 1192.8 | 1185.0 | 1195.4 | 1194.1 |
| 7.5°   | 1186.3 | 1186.3 | 1178.5 | 1191.5 | 1190.2 |
| 10°    | 1173.3 | 1175.9 | 1169.4 | 1182.4 | 1179.8 |
| 12.5°  | 1157.6 | 1161.5 | 1157.6 | 1169.4 | 1166.8 |
| 15°    | 1138.1 | 1142.0 | 1140.7 | 1153.7 | 1152.4 |
| 17.5°  | 1114.7 | 1122.5 | 1121.2 | 1132.9 | 1130.3 |
| 20°    | 1088.7 | 1096.5 | 1099.1 | 1110.8 | 1112.1 |
| 22.5°  | 1061.4 | 1069.2 | 1073.1 | 1088.7 | 1087.4 |
| 25°    | 1027.6 | 1040.6 | 1044.5 | 1061.4 | 1061.4 |
| 27.5°  | 995.1  | 1009.4 | 1017.2 | 1031.5 | 1032.8 |
| 30°    | 959.9  | 976.8  | 987.3  | 1002.9 | 1002.9 |
| 32.5°  | 920.9  | 940.4  | 954.7  | 971.6  | 975.5  |
| 35°    | 884.5  | 905.3  | 922.2  | 941.7  | 946.9  |
| 37.5°  | 845.5  | 868.9  | 888.4  | 910.5  | 914.4  |
| 40°    | 806.5  | 829.9  | 855.9  | 878.0  | 883.2  |
| 42.5°  | 763.5  | 793.4  | 820.8  | 845.5  | 853.3  |
| 45°    | 723.2  | 754.4  | 786.9  | 811.7  | 822.1  |
| 47.5°  | 680.3  | 715.4  | 751.8  | 779.1  | 786.9  |
| 50°    | 638.7  | 675.1  | 715.4  | 745.3  | 754.4  |
| 52.5°  | 594.4  | 633.5  | 679.0  | 710.2  | 721.9  |
| 55°    | 551.5  | 594.4  | 641.3  | 676.4  | 686.8  |
| 57.5°  | 509.9  | 554.1  | 604.8  | 640.0  | 651.7  |
| 60°    | 465.7  | 512.5  | 565.8  | 602.2  | 616.5  |
| 62.5°  | 424.0  | 472.2  | 529.4  | 565.8  | 578.8  |
| 65°    | 381.1  | 431.8  | 489.1  | 528.1  | 541.1  |
| 67.5°  | 338.2  | 391.5  | 448.8  | 491.7  | 502.1  |
| 70°    | 292.7  | 348.6  | 411.0  | 452.7  | 465.7  |
| 72.5°  | 251.0  | 307.0  | 372.0  | 414.9  | 427.9  |
| 75°    | 206.8  | 267.9  | 333.0  | 375.9  | 391.5  |
| 77.5°  | 169.1  | 230.2  | 295.3  | 340.8  | 352.5  |
| 80°    | 128.8  | 192.5  | 260.1  | 304.4  | 317.4  |
| 82.5°  | 93.7   | 158.7  | 227.6  | 271.9  | 284.9  |
| 85°    | 63.7   | 128.8  | 197.7  | 241.9  | 254.9  |
| 87.5°  | 39.0   | 104.1  | 170.4  | 214.6  | 227.6  |
| 90°    | 18.0   | 87.1   | 160.7  | 206.6  | 220.1  |
| 92.5°  | 23.8   | 104.4  | 238.8  | 214.4  | 220.3  |
| 95°    | 33.0   | 125.8  | 454.7  | 264.2  | 245.9  |
| 97.5°  | 42.7   | 129.3  | 622.3  | 399.1  | 303.8  |
| 100°   | 52.4   | 130.0  | 633.7  | 651.1  | 508.5  |
| 102.5° | 62.6   | 131.7  | 590.2  | 811.6  | 700.6  |
| 105°   | 74.2   | 135.8  | 539.5  | 906.8  | 844.9  |
| 107.5° | 85.0   | 141.6  | 493.8  | 943.1  | 935.8  |
| 110°   | 96.8   | 147.7  | 455.9  | 936.6  | 983.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 108.9 | 154.4 | 427.2 | 896.5 | 987.6 |
| 115°   | 119.2 | 162.5 | 406.9 | 841.4 | 960.9 |
| 117.5° | 130.7 | 168.9 | 389.8 | 783.1 | 914.6 |
| 120°   | 141.5 | 175.2 | 377.3 | 727.4 | 855.0 |
| 122.5° | 152.0 | 182.3 | 366.9 | 681.9 | 799.8 |
| 125°   | 160.6 | 188.8 | 357.1 | 640.6 | 748.6 |
| 127.5° | 168.2 | 197.5 | 349.0 | 605.2 | 703.4 |
| 130°   | 175.4 | 206.2 | 340.8 | 572.2 | 663.5 |
| 132.5° | 179.6 | 214.2 | 333.8 | 540.8 | 626.8 |
| 135°   | 186.2 | 220.4 | 326.7 | 509.8 | 589.1 |
| 137.5° | 192.2 | 226.4 | 320.4 | 478.9 | 551.1 |
| 140°   | 197.0 | 231.9 | 314.7 | 449.8 | 512.7 |
| 142.5° | 203.6 | 235.6 | 308.4 | 421.4 | 475.2 |
| 145°   | 210.7 | 239.9 | 307.3 | 396.5 | 440.5 |
| 147.5° | 216.6 | 244.6 | 305.6 | 375.8 | 410.9 |
| 150°   | 223.7 | 248.4 | 303.4 | 359.2 | 384.6 |
| 152.5° | 230.9 | 252.6 | 300.7 | 348.2 | 365.5 |
| 155°   | 238.0 | 256.6 | 297.4 | 338.0 | 352.3 |
| 157.5° | 243.5 | 260.2 | 294.6 | 328.2 | 339.7 |
| 160°   | 250.1 | 263.2 | 291.3 | 319.1 | 327.6 |
| 162.5° | 255.0 | 265.5 | 288.0 | 310.5 | 316.6 |
| 165°   | 260.0 | 267.4 | 284.7 | 302.0 | 307.3 |
| 167.5° | 263.8 | 269.0 | 281.4 | 294.6 | 297.9 |
| 170°   | 267.1 | 269.8 | 278.1 | 288.0 | 289.7 |
| 172.5° | 269.3 | 270.7 | 275.4 | 282.2 | 282.0 |
| 175°   | 271.0 | 271.2 | 273.2 | 277.0 | 276.5 |
| 177.5° | 272.1 | 271.5 | 271.5 | 273.7 | 272.6 |
| 180°   | 271.5 | 271.5 | 271.5 | 271.5 | 271.5 |

(END OF REPORT)