

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: P1028308

Luminaire Tested: S125DIP-B850D375UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1028308  
REPORT IS A COMBINATION OF REPORTS P1002580 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B850D375UB35-4F0-XX-W2A-F4  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

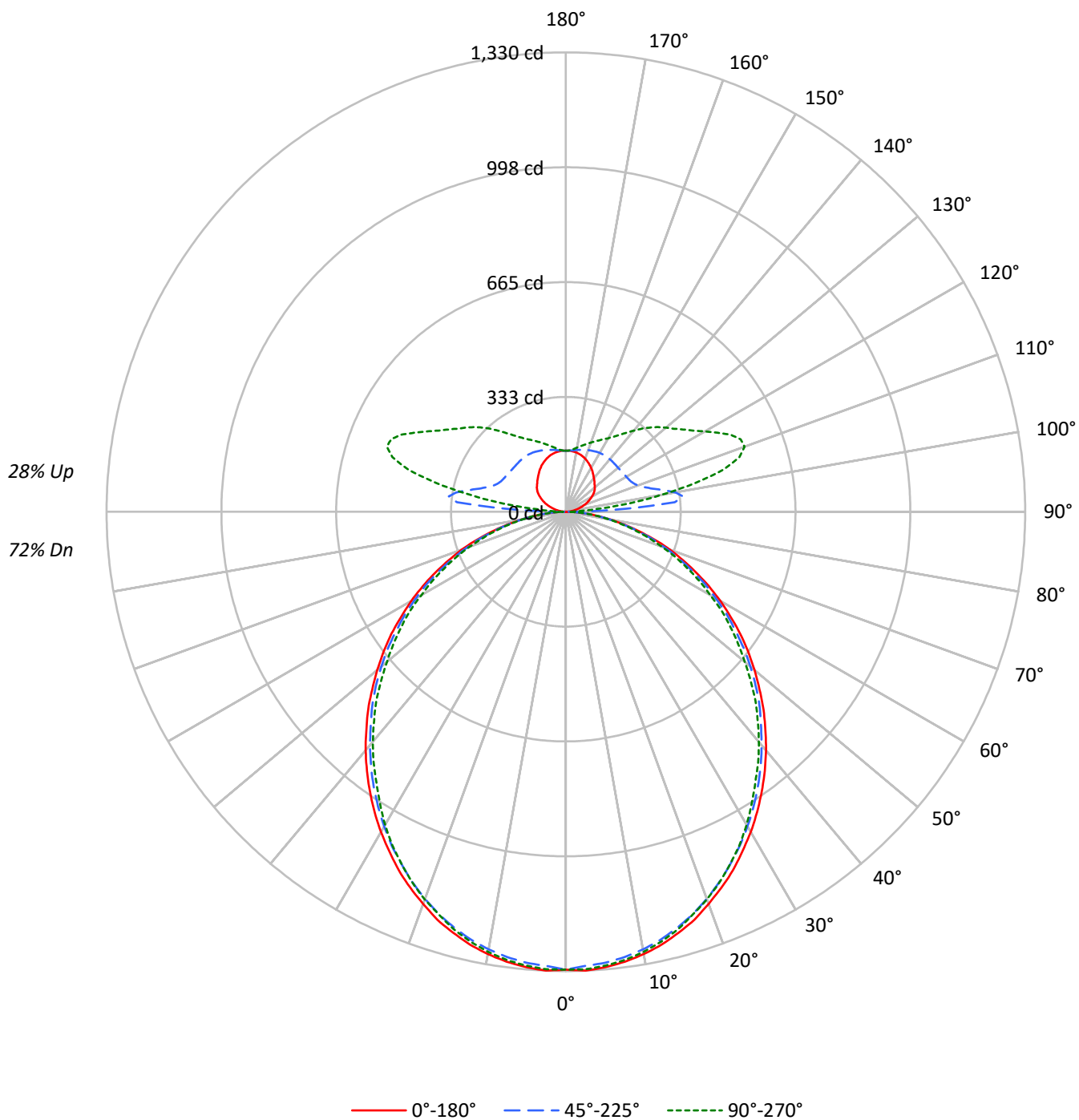
Lumens per Lamp: N/A  
Luminaire Lumens: 4783.7 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 45.2  
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   | 112 | 112 | 112 | 112 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 76 | 76 | 76 |
| 1   | 103 | 98  | 94  | 90  | 97  | 93  | 90  | 86  | 84 | 81 | 79 | 75 | 73 | 71 | 67 | 66 | 64 |
| 2   | 93  | 86  | 79  | 74  | 88  | 81  | 76  | 71  | 73 | 69 | 65 | 66 | 63 | 60 | 59 | 57 | 54 |
| 3   | 85  | 75  | 68  | 62  | 81  | 72  | 65  | 59  | 65 | 59 | 55 | 58 | 54 | 50 | 53 | 49 | 46 |
| 4   | 78  | 67  | 59  | 52  | 74  | 64  | 56  | 50  | 58 | 52 | 47 | 52 | 47 | 43 | 47 | 43 | 40 |
| 5   | 72  | 60  | 51  | 45  | 68  | 57  | 49  | 43  | 52 | 45 | 40 | 47 | 42 | 37 | 42 | 38 | 35 |
| 6   | 66  | 54  | 45  | 39  | 63  | 51  | 43  | 38  | 47 | 40 | 35 | 42 | 37 | 33 | 38 | 34 | 31 |
| 7   | 61  | 49  | 40  | 34  | 58  | 46  | 39  | 33  | 42 | 36 | 31 | 39 | 33 | 29 | 35 | 31 | 27 |
| 8   | 57  | 44  | 36  | 31  | 54  | 42  | 35  | 30  | 39 | 32 | 28 | 35 | 30 | 26 | 32 | 28 | 24 |
| 9   | 53  | 40  | 33  | 27  | 50  | 39  | 32  | 27  | 36 | 29 | 25 | 33 | 27 | 24 | 30 | 25 | 22 |
| 10  | 50  | 37  | 30  | 25  | 47  | 36  | 29  | 24  | 33 | 27 | 23 | 30 | 25 | 21 | 28 | 23 | 20 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8493 | 8493 | 8493 |
| 5°  | 8493 | 8295 | 8311 |
| 10° | 8423 | 8105 | 8080 |
| 15° | 8313 | 7878 | 7807 |
| 20° | 8163 | 7614 | 7494 |
| 25° | 8002 | 7327 | 7160 |
| 30° | 7809 | 7027 | 6807 |
| 35° | 7602 | 6713 | 6412 |
| 40° | 7388 | 6380 | 6060 |
| 45° | 7157 | 6057 | 5687 |
| 50° | 6902 | 5690 | 5252 |
| 55° | 6650 | 5285 | 4852 |
| 60° | 6350 | 4858 | 4386 |
| 65° | 5990 | 4364 | 3905 |
| 70° | 5625 | 3796 | 3349 |
| 75° | 5011 | 3125 | 2708 |
| 80° | 4269 | 2334 | 1992 |
| 85° | 3299 | 1380 | 1098 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7157 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.1  | 2.6       |
| 10°-20°   | 353.3  | 7.4       |
| 20°-30°   | 521.6  | 10.9      |
| 30°-40°   | 608.6  | 12.7      |
| 40°-50°   | 611.2  | 12.8      |
| 50°-60°   | 536.5  | 11.2      |
| 60°-70°   | 399.6  | 8.4       |
| 70°-80°   | 228.2  | 4.8       |
| 80°-90°   | 66.6   | 1.4       |
| 90°-100°  | 133.4  | 2.8       |
| 100°-110° | 277.0  | 5.8       |
| 110°-120° | 258.8  | 5.4       |
| 120°-130° | 209.4  | 4.4       |
| 130°-140° | 168.2  | 3.5       |
| 140°-150° | 127.0  | 2.7       |
| 150°-160° | 89.4   | 1.9       |
| 160°-170° | 52.7   | 1.1       |
| 170°-180° | 17.1   | 0.4       |
| 0°-30°    | 1000.0 | 20.9      |
| 0°-40°    | 1608.5 | 33.6      |
| 0°-60°    | 2756.3 | 57.6      |
| 0°-90°    | 3450.7 | 72.1      |
| 90°-120°  | 669.2  | 14.0      |
| 90°-150°  | 1173.8 | 24.5      |
| 90°-180°  | 1333.0 | 27.9      |
| 0°-180°   | 4783.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1326 | 1326  | 1326 | 1326  | 1326 |      |
| 5°   | 1323 | 1321  | 1311 | 1320  | 1319 | 126  |
| 15°  | 1262 | 1258  | 1247 | 1252  | 1252 | 356  |
| 25°  | 1145 | 1140  | 1126 | 1128  | 1125 | 527  |
| 35°  | 989  | 985   | 970  | 965   | 956  | 619  |
| 45°  | 810  | 805   | 793  | 780   | 777  | 624  |
| 55°  | 617  | 614   | 599  | 589   | 582  | 550  |
| 65°  | 416  | 414   | 403  | 393   | 389  | 413  |
| 75°  | 221  | 219   | 214  | 211   | 207  | 236  |
| 85°  | 58   | 59    | 59   | 58    | 56   | 63   |
| 90°  | 0    | 3     | 6    | 8     | 8    | 5    |
| 95°  | 12   | 35    | 316  | 144   | 84   | 12   |
| 105° | 40   | 56    | 259  | 510   | 473  | 43   |
| 115° | 72   | 87    | 208  | 448   | 527  | 71   |
| 125° | 100  | 117   | 199  | 356   | 415  | 89   |
| 135° | 117  | 141   | 198  | 299   | 345  | 91   |
| 145° | 136  | 156   | 198  | 247   | 272  | 86   |
| 155° | 156  | 168   | 194  | 219   | 228  | 72   |
| 165° | 170  | 175   | 186  | 197   | 200  | 48   |
| 175° | 177  | 177   | 178  | 180   | 180  | 17   |
| 180° | 177  | 177   | 177  | 177   | 177  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1325.5 | 1325.5 | 1325.5 | 1325.5 | 1325.5 |
| 2.5°   | 1329.7 | 1326.6 | 1316.1 | 1326.6 | 1325.5 |
| 5°     | 1323.4 | 1321.3 | 1310.8 | 1320.3 | 1319.2 |
| 7.5°   | 1314.0 | 1311.9 | 1300.4 | 1309.8 | 1308.7 |
| 10°    | 1300.4 | 1298.3 | 1286.7 | 1295.1 | 1294.1 |
| 12.5°  | 1283.6 | 1279.4 | 1268.9 | 1275.2 | 1275.2 |
| 15°    | 1261.6 | 1258.4 | 1246.9 | 1252.1 | 1252.1 |
| 17.5°  | 1238.5 | 1233.2 | 1221.7 | 1228.0 | 1222.7 |
| 20°    | 1208.1 | 1206.0 | 1192.3 | 1199.7 | 1194.4 |
| 22.5°  | 1177.7 | 1173.5 | 1160.9 | 1165.1 | 1161.9 |
| 25°    | 1145.1 | 1139.9 | 1126.3 | 1128.4 | 1125.2 |
| 27.5°  | 1107.4 | 1104.2 | 1090.6 | 1091.7 | 1088.5 |
| 30°    | 1070.7 | 1067.5 | 1051.8 | 1049.7 | 1046.6 |
| 32.5°  | 1030.8 | 1025.6 | 1012.0 | 1007.8 | 1001.5 |
| 35°    | 988.9  | 984.7  | 970.0  | 964.8  | 956.4  |
| 37.5°  | 945.9  | 940.7  | 927.0  | 919.7  | 914.4  |
| 40°    | 901.9  | 896.6  | 881.9  | 872.5  | 869.3  |
| 42.5°  | 854.7  | 850.5  | 835.8  | 827.4  | 822.2  |
| 45°    | 809.6  | 805.4  | 792.8  | 780.2  | 777.1  |
| 47.5°  | 760.3  | 761.3  | 745.6  | 733.0  | 725.7  |
| 50°    | 713.1  | 709.9  | 697.4  | 683.7  | 676.4  |
| 52.5°  | 664.9  | 662.8  | 649.1  | 637.6  | 629.2  |
| 55°    | 616.6  | 613.5  | 598.8  | 589.4  | 582.0  |
| 57.5°  | 565.2  | 564.2  | 551.6  | 539.0  | 535.9  |
| 60°    | 517.0  | 512.8  | 501.3  | 490.8  | 483.4  |
| 62.5°  | 466.7  | 463.5  | 454.1  | 442.5  | 437.3  |
| 65°    | 416.3  | 414.2  | 402.7  | 393.3  | 389.1  |
| 67.5°  | 367.0  | 362.8  | 354.5  | 346.1  | 344.0  |
| 70°    | 320.9  | 315.6  | 306.2  | 299.9  | 295.7  |
| 72.5°  | 270.6  | 267.4  | 262.2  | 254.8  | 250.6  |
| 75°    | 221.3  | 219.2  | 213.9  | 210.8  | 206.6  |
| 77.5°  | 175.1  | 174.1  | 170.9  | 168.8  | 165.7  |
| 80°    | 132.1  | 132.1  | 130.0  | 129.0  | 126.9  |
| 82.5°  | 94.4   | 92.3   | 92.3   | 90.2   | 90.2   |
| 85°    | 57.7   | 58.7   | 58.7   | 57.7   | 55.6   |
| 87.5°  | 28.3   | 28.3   | 27.3   | 27.3   | 25.2   |
| 90°    | 0.4    | 3.2    | 5.7    | 7.5    | 8.2    |
| 92.5°  | 5.4    | 29.3   | 142.5  | 38.0   | 26.4   |
| 95°    | 11.8   | 34.8   | 316.4  | 143.6  | 83.9   |
| 97.5°  | 18.2   | 37.7   | 341.7  | 259.2  | 183.9  |
| 100°   | 25.0   | 43.2   | 322.4  | 366.4  | 278.5  |
| 102.5° | 32.5   | 49.4   | 288.5  | 457.0  | 384.2  |
| 105°   | 40.4   | 56.4   | 258.9  | 509.8  | 473.1  |
| 107.5° | 47.8   | 63.8   | 236.7  | 524.6  | 526.7  |
| 110°   | 56.1   | 71.4   | 222.1  | 510.4  | 551.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 64.3  | 79.1  | 213.5 | 481.0 | 548.1 |
| 115°   | 72.1  | 87.0  | 207.8 | 448.0 | 527.1 |
| 117.5° | 79.3  | 95.0  | 204.6 | 418.0 | 495.3 |
| 120°   | 86.4  | 102.6 | 202.5 | 392.8 | 464.6 |
| 122.5° | 93.9  | 110.2 | 200.7 | 372.6 | 437.4 |
| 125°   | 100.0 | 117.2 | 199.3 | 356.4 | 415.3 |
| 127.5° | 105.0 | 124.0 | 198.5 | 342.5 | 394.9 |
| 130°   | 109.6 | 130.4 | 197.8 | 328.3 | 378.9 |
| 132.5° | 113.2 | 136.0 | 197.8 | 313.2 | 362.8 |
| 135°   | 117.1 | 140.8 | 197.8 | 298.7 | 344.9 |
| 137.5° | 122.1 | 145.3 | 198.2 | 283.6 | 326.4 |
| 140°   | 126.4 | 149.1 | 198.5 | 269.6 | 306.7 |
| 142.5° | 131.4 | 152.6 | 198.9 | 257.6 | 288.5 |
| 145°   | 136.4 | 156.2 | 198.5 | 247.3 | 272.1 |
| 147.5° | 141.8 | 159.4 | 197.8 | 238.4 | 257.5 |
| 150°   | 146.4 | 162.3 | 196.8 | 231.0 | 245.7 |
| 152.5° | 151.4 | 165.2 | 195.3 | 224.8 | 236.4 |
| 155°   | 155.7 | 167.5 | 193.5 | 218.7 | 228.2 |
| 157.5° | 159.6 | 169.8 | 191.8 | 213.0 | 220.7 |
| 160°   | 163.5 | 171.6 | 190.0 | 207.2 | 213.2 |
| 162.5° | 166.8 | 173.4 | 187.8 | 202.1 | 206.4 |
| 165°   | 170.0 | 174.6 | 185.7 | 196.9 | 200.0 |
| 167.5° | 172.1 | 175.3 | 183.5 | 192.1 | 193.9 |
| 170°   | 174.3 | 176.2 | 181.8 | 187.4 | 188.5 |
| 172.5° | 175.7 | 176.6 | 179.6 | 183.7 | 183.5 |
| 175°   | 176.8 | 176.8 | 178.2 | 180.3 | 179.6 |
| 177.5° | 177.5 | 176.8 | 177.1 | 178.2 | 177.1 |
| 180°   | 177.1 | 177.1 | 177.1 | 177.1 | 177.1 |

(END OF REPORT)