

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: P1008216

Luminaire Tested: S122DIP-B675D925UB2750-4F0-XX-W2A-F\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008216  
REPORT IS A COMBINATION OF REPORTS P984679 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D925UB2750-4F0-XX-W2A-F\_3500K  
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

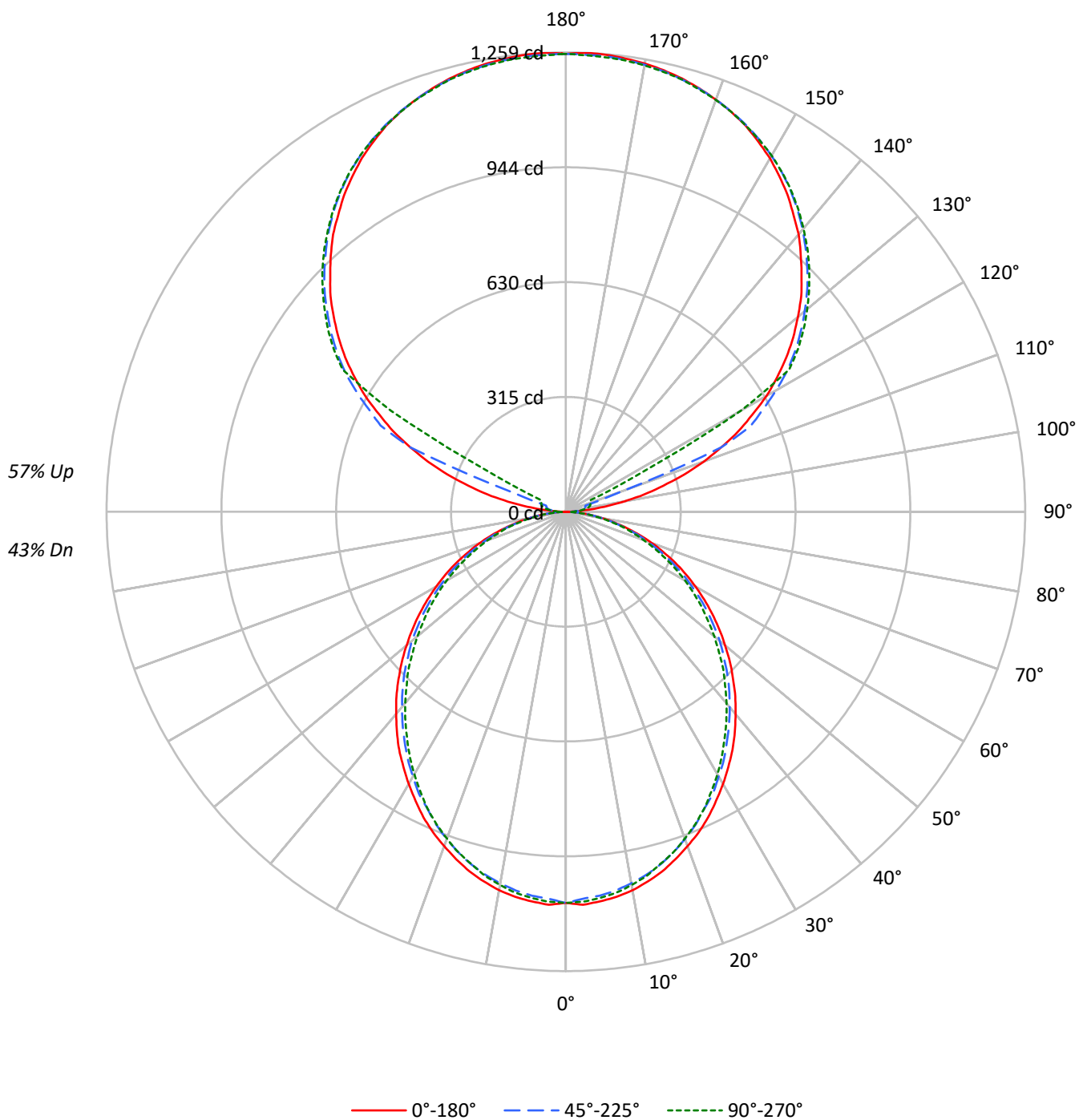
Lumens per Lamp: N/A  
Luminaire Lumens: 6408.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 64.4  
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   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 49 | 49 | 49 |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 69 | 67 | 65 | 56 | 54 | 53 | 44 | 43 | 42 |
| 2   | 88  | 80  | 74  | 69  | 80 | 73 | 68 | 64 | 61 | 57 | 54 | 49 | 47 | 44 | 38 | 37 | 35 |
| 3   | 80  | 70  | 63  | 57  | 73 | 65 | 58 | 53 | 54 | 49 | 45 | 43 | 40 | 37 | 34 | 32 | 30 |
| 4   | 73  | 62  | 55  | 49  | 66 | 57 | 50 | 45 | 48 | 43 | 38 | 39 | 35 | 32 | 30 | 28 | 26 |
| 5   | 67  | 55  | 47  | 42  | 61 | 51 | 44 | 39 | 43 | 37 | 33 | 35 | 31 | 28 | 27 | 25 | 22 |
| 6   | 62  | 50  | 42  | 36  | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 31 | 27 | 24 | 25 | 22 | 20 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 28 | 24 | 21 | 23 | 20 | 18 |
| 8   | 53  | 41  | 33  | 28  | 48 | 38 | 31 | 26 | 32 | 26 | 23 | 26 | 22 | 19 | 21 | 18 | 16 |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 15 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16967 | 16967 | 16967 |
| 5°  | 16995 | 16172 | 16058 |
| 10° | 16856 | 15435 | 15129 |
| 15° | 16609 | 14694 | 14152 |
| 20° | 16276 | 13886 | 13227 |
| 25° | 15944 | 13042 | 12304 |
| 30° | 15524 | 12249 | 11334 |
| 35° | 15131 | 11412 | 10383 |
| 40° | 14643 | 10587 | 9482  |
| 45° | 14159 | 9769  | 8599  |
| 50° | 13628 | 8936  | 7684  |
| 55° | 13073 | 8044  | 6817  |
| 60° | 12447 | 7080  | 5915  |
| 65° | 11760 | 6100  | 4967  |
| 70° | 10892 | 5029  | 4010  |
| 75° | 9683  | 3875  | 3097  |
| 80° | 8231  | 2635  | 1993  |
| 85° | 5975  | 1226  | 849   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14159 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.9  | 1.6       |
| 10°-20°   | 283.8  | 4.4       |
| 20°-30°   | 417.1  | 6.5       |
| 30°-40°   | 484.5  | 7.6       |
| 40°-50°   | 483.9  | 7.6       |
| 50°-60°   | 421.9  | 6.6       |
| 60°-70°   | 311.9  | 4.9       |
| 70°-80°   | 176.5  | 2.8       |
| 80°-90°   | 48.8   | 0.8       |
| 90°-100°  | 41.4   | 0.6       |
| 100°-110° | 154.2  | 2.4       |
| 110°-120° | 409.1  | 6.4       |
| 120°-130° | 678.5  | 10.6      |
| 130°-140° | 720.7  | 11.2      |
| 140°-150° | 669.9  | 10.5      |
| 150°-160° | 538.5  | 8.4       |
| 160°-170° | 347.0  | 5.4       |
| 170°-180° | 119.4  | 1.9       |
| 0°-30°    | 801.8  | 12.5      |
| 0°-40°    | 1286.3 | 20.1      |
| 0°-60°    | 2192.1 | 34.2      |
| 0°-90°    | 2729.2 | 42.6      |
| 90°-120°  | 604.7  | 9.4       |
| 90°-150°  | 2673.8 | 41.7      |
| 90°-180°  | 3679.0 | 57.4      |
| 0°-180°   | 6408.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1072 | 1072  | 1072 | 1072  | 1072 |      |
| 5°   | 1072 | 1068  | 1056 | 1065  | 1063 | 102  |
| 15°  | 1020 | 1014  | 1001 | 1005  | 1000 | 287  |
| 25°  | 924  | 915   | 898  | 900   | 898  | 425  |
| 35°  | 797  | 786   | 770  | 764   | 759  | 497  |
| 45°  | 648  | 641   | 626  | 614   | 610  | 500  |
| 55°  | 491  | 484   | 472  | 460   | 454  | 439  |
| 65°  | 331  | 325   | 314  | 305   | 300  | 327  |
| 75°  | 173  | 171   | 166  | 160   | 162  | 185  |
| 85°  | 42   | 41    | 40   | 37    | 36   | 47   |
| 90°  | 1    | 11    | 18   | 23    | 24   | 6    |
| 95°  | 59   | 29    | 35   | 40    | 39   | 70   |
| 105° | 276  | 303   | 55   | 65    | 69   | 295  |
| 115° | 522  | 538   | 560  | 140   | 74   | 514  |
| 125° | 738  | 750   | 767  | 774   | 776  | 658  |
| 135° | 913  | 928   | 936  | 945   | 943  | 706  |
| 145° | 1060 | 1059  | 1074 | 1080  | 1076 | 663  |
| 155° | 1167 | 1159  | 1170 | 1175  | 1168 | 538  |
| 165° | 1229 | 1224  | 1227 | 1233  | 1227 | 347  |
| 175° | 1258 | 1251  | 1253 | 1259  | 1250 | 120  |
| 180° | 1255 | 1255  | 1255 | 1255  | 1255 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1071.9 | 1071.9 | 1071.9 | 1071.9 | 1071.9 |
| 2.5°   | 1078.1 | 1072.9 | 1061.6 | 1071.9 | 1069.8 |
| 5°     | 1071.9 | 1067.7 | 1056.4 | 1064.7 | 1062.6 |
| 7.5°   | 1064.7 | 1058.5 | 1047.1 | 1055.4 | 1053.3 |
| 10°    | 1053.3 | 1046.1 | 1033.7 | 1042.0 | 1038.9 |
| 12.5°  | 1037.9 | 1031.7 | 1019.3 | 1024.5 | 1022.4 |
| 15°    | 1020.3 | 1014.2 | 1000.8 | 1004.9 | 999.7  |
| 17.5°  | 998.7  | 992.5  | 979.1  | 984.3  | 979.1  |
| 20°    | 975.0  | 968.8  | 954.4  | 957.5  | 953.3  |
| 22.5°  | 951.3  | 942.0  | 928.6  | 928.6  | 926.5  |
| 25°    | 923.5  | 915.2  | 897.7  | 899.7  | 897.7  |
| 27.5°  | 892.5  | 885.3  | 871.9  | 868.8  | 863.7  |
| 30°    | 861.6  | 853.4  | 837.9  | 834.8  | 830.7  |
| 32.5°  | 828.6  | 822.5  | 806.0  | 799.8  | 795.7  |
| 35°    | 796.7  | 786.4  | 769.9  | 763.7  | 758.6  |
| 37.5°  | 760.6  | 751.3  | 734.8  | 727.6  | 722.5  |
| 40°    | 723.5  | 715.3  | 698.8  | 689.5  | 685.4  |
| 42.5°  | 687.4  | 679.2  | 662.7  | 652.4  | 646.2  |
| 45°    | 648.3  | 641.1  | 625.6  | 614.3  | 610.1  |
| 47.5°  | 610.1  | 602.9  | 586.4  | 575.1  | 568.9  |
| 50°    | 569.9  | 564.8  | 550.4  | 535.9  | 530.8  |
| 52.5°  | 530.8  | 523.6  | 510.2  | 498.8  | 491.6  |
| 55°    | 490.6  | 484.4  | 472.0  | 459.7  | 454.5  |
| 57.5°  | 450.4  | 445.2  | 431.8  | 419.5  | 415.3  |
| 60°    | 410.2  | 406.1  | 391.6  | 380.3  | 377.2  |
| 62.5°  | 371.0  | 363.8  | 353.5  | 343.2  | 339.1  |
| 65°    | 330.8  | 324.7  | 314.3  | 305.1  | 299.9  |
| 67.5°  | 289.6  | 284.5  | 275.2  | 268.0  | 263.8  |
| 70°    | 251.5  | 247.4  | 238.1  | 230.9  | 226.7  |
| 72.5°  | 212.3  | 208.2  | 203.0  | 195.8  | 192.7  |
| 75°    | 173.1  | 171.1  | 165.9  | 159.7  | 161.8  |
| 77.5°  | 138.1  | 134.0  | 131.9  | 128.8  | 125.7  |
| 80°    | 103.1  | 102.0  | 100.0  | 96.9   | 94.8   |
| 82.5°  | 70.1   | 70.1   | 69.1   | 64.9   | 64.9   |
| 85°    | 42.3   | 41.2   | 40.2   | 37.1   | 36.1   |
| 87.5°  | 18.6   | 16.5   | 14.4   | 11.3   | 10.3   |
| 90°    | 0.9    | 10.9   | 18.2   | 22.7   | 24.5   |
| 92.5°  | 22.7   | 19.1   | 21.8   | 23.6   | 24.5   |
| 95°    | 59.0   | 29.1   | 35.4   | 40.0   | 39.0   |
| 97.5°  | 106.2  | 31.8   | 46.3   | 49.0   | 49.9   |
| 100°   | 160.7  | 36.3   | 51.8   | 59.0   | 60.8   |
| 102.5° | 220.6  | 218.8  | 53.6   | 63.6   | 66.3   |
| 105°   | 276.0  | 303.3  | 55.4   | 65.4   | 69.0   |
| 107.5° | 340.5  | 363.2  | 57.2   | 67.2   | 70.8   |
| 110°   | 402.2  | 421.3  | 158.9  | 68.1   | 71.7   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 460.4  | 476.7  | 461.3  | 69.9   | 72.6   |
| 115°   | 522.1  | 537.5  | 560.2  | 139.8  | 74.5   |
| 117.5° | 575.7  | 593.8  | 609.3  | 479.4  | 241.5  |
| 120°   | 635.6  | 649.2  | 665.6  | 676.5  | 553.9  |
| 122.5° | 686.4  | 701.0  | 719.1  | 724.6  | 725.5  |
| 125°   | 738.2  | 750.0  | 767.3  | 773.6  | 776.3  |
| 127.5° | 785.4  | 798.1  | 811.8  | 820.8  | 821.7  |
| 130°   | 829.9  | 844.4  | 854.4  | 864.4  | 863.5  |
| 132.5° | 875.3  | 887.1  | 897.1  | 905.3  | 904.4  |
| 135°   | 913.4  | 928.0  | 936.1  | 945.2  | 943.4  |
| 137.5° | 953.4  | 964.3  | 973.4  | 982.5  | 979.7  |
| 140°   | 992.4  | 999.7  | 1009.7 | 1017.9 | 1013.3 |
| 142.5° | 1025.1 | 1031.5 | 1043.3 | 1050.6 | 1046.0 |
| 145°   | 1059.6 | 1058.7 | 1074.2 | 1080.5 | 1076.0 |
| 147.5° | 1089.6 | 1086.9 | 1102.3 | 1106.9 | 1103.2 |
| 150°   | 1118.7 | 1112.3 | 1126.8 | 1132.3 | 1127.7 |
| 152.5° | 1143.2 | 1135.9 | 1149.5 | 1155.0 | 1148.6 |
| 155°   | 1166.8 | 1158.6 | 1169.5 | 1175.0 | 1167.7 |
| 157.5° | 1185.8 | 1178.6 | 1186.8 | 1193.1 | 1185.8 |
| 160°   | 1202.2 | 1196.7 | 1202.2 | 1207.6 | 1201.3 |
| 162.5° | 1216.7 | 1211.3 | 1215.8 | 1222.2 | 1214.0 |
| 165°   | 1229.4 | 1224.0 | 1226.7 | 1233.1 | 1226.7 |
| 167.5° | 1239.4 | 1234.0 | 1236.7 | 1243.1 | 1234.9 |
| 170°   | 1247.6 | 1242.1 | 1244.0 | 1250.3 | 1242.1 |
| 172.5° | 1253.0 | 1247.6 | 1249.4 | 1255.8 | 1247.6 |
| 175°   | 1257.6 | 1251.2 | 1253.0 | 1259.4 | 1250.3 |
| 177.5° | 1259.4 | 1253.0 | 1253.9 | 1260.3 | 1252.1 |
| 180°   | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 |

(END OF REPORT)