

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: P1009417

Luminaire Tested: S122DIP-B675D925UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009417  
REPORT IS A COMBINATION OF REPORTS P984703 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D925UB40-4F0-XX-W2A-D  
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

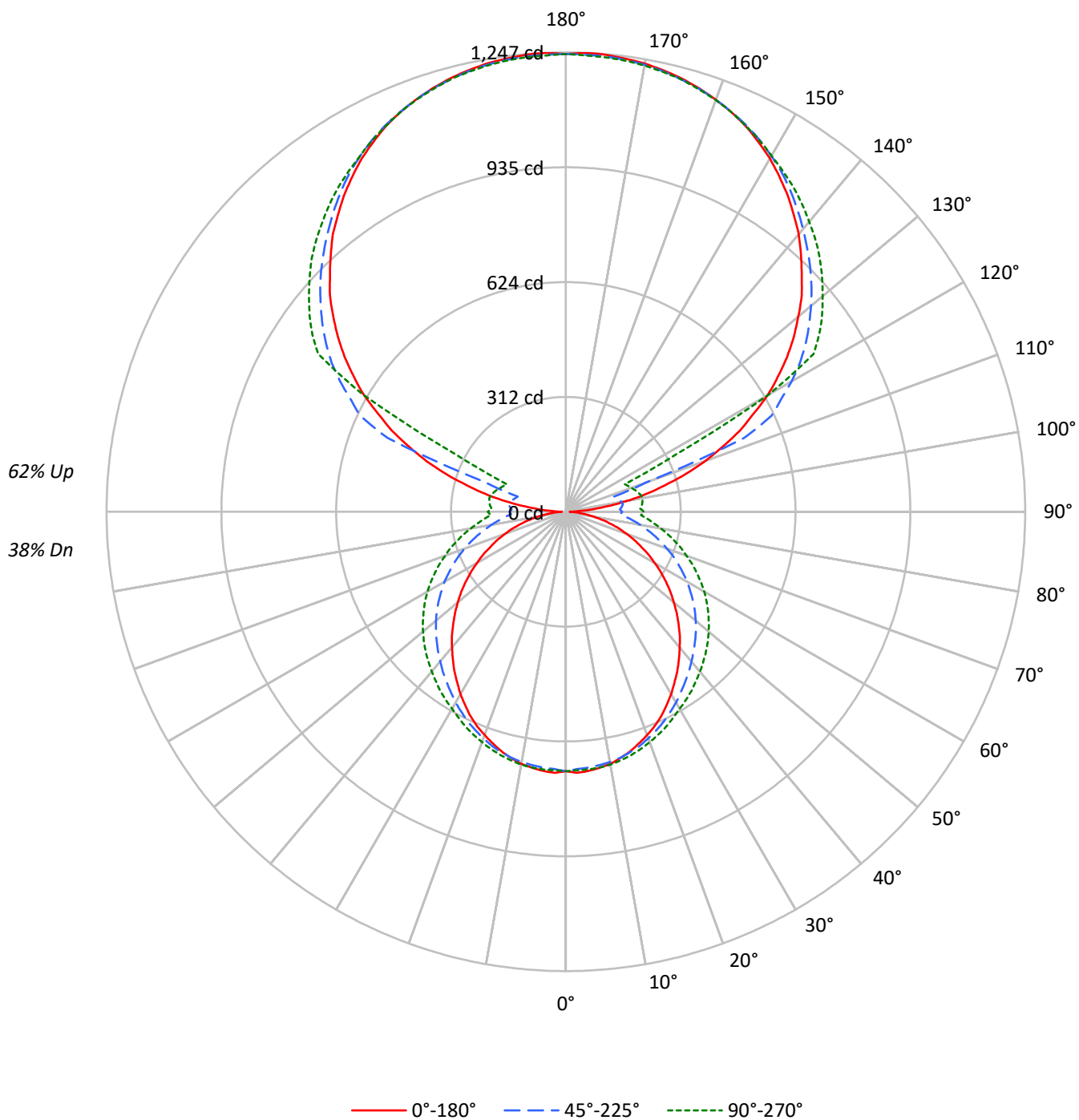
Lumens per Lamp: N/A  
Luminaire Lumens: 6332.0 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

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   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 |
| 1   | 94  | 89  | 85  | 81  | 85 | 81 | 77 | 74 | 65 | 63 | 60 | 51 | 49 | 48 | 38 | 37 | 36 |
| 2   | 85  | 77  | 71  | 65  | 77 | 70 | 64 | 60 | 57 | 53 | 49 | 44 | 41 | 39 | 33 | 31 | 29 |
| 3   | 77  | 67  | 60  | 54  | 70 | 61 | 55 | 49 | 49 | 45 | 41 | 39 | 35 | 32 | 29 | 26 | 24 |
| 4   | 70  | 59  | 51  | 45  | 63 | 54 | 47 | 41 | 44 | 38 | 34 | 34 | 30 | 27 | 25 | 23 | 21 |
| 5   | 64  | 53  | 44  | 38  | 58 | 48 | 41 | 35 | 39 | 33 | 29 | 30 | 27 | 23 | 23 | 20 | 18 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 36 | 30 | 35 | 29 | 25 | 27 | 23 | 20 | 20 | 18 | 15 |
| 7   | 55  | 42  | 34  | 29  | 49 | 39 | 31 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 14 |
| 8   | 51  | 38  | 30  | 25  | 46 | 35 | 28 | 23 | 29 | 23 | 19 | 23 | 19 | 16 | 17 | 14 | 12 |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 11 |
| 10  | 44  | 32  | 25  | 20  | 40 | 29 | 23 | 18 | 24 | 19 | 15 | 19 | 15 | 13 | 15 | 12 | 10 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11147 | 11147 | 11147 |
| 5°  | 11197 | 10672 | 10612 |
| 10° | 11122 | 10301 | 10152 |
| 15° | 10965 | 9919  | 9680  |
| 20° | 10767 | 9518  | 9232  |
| 25° | 10573 | 9134  | 8827  |
| 30° | 10297 | 8743  | 8425  |
| 35° | 10020 | 8366  | 8130  |
| 40° | 9729  | 8041  | 7836  |
| 45° | 9450  | 7745  | 7580  |
| 50° | 9152  | 7473  | 7328  |
| 55° | 8839  | 7184  | 7072  |
| 60° | 8454  | 6883  | 6801  |
| 65° | 8055  | 6537  | 6491  |
| 70° | 7600  | 6165  | 6156  |
| 75° | 7021  | 5793  | 5842  |
| 80° | 6108  | 5405  | 5514  |
| 85° | 5184  | 5040  | 5232  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9450 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.8   | 1.1       |
| 10°-20°   | 191.5  | 3.0       |
| 20°-30°   | 290.1  | 4.6       |
| 30°-40°   | 353.3  | 5.6       |
| 40°-50°   | 380.1  | 6.0       |
| 50°-60°   | 369.1  | 5.8       |
| 60°-70°   | 322.4  | 5.1       |
| 70°-80°   | 248.1  | 3.9       |
| 80°-90°   | 168.4  | 2.7       |
| 90°-100°  | 155.6  | 2.5       |
| 100°-110° | 236.4  | 3.7       |
| 110°-120° | 460.4  | 7.3       |
| 120°-130° | 702.7  | 11.1      |
| 130°-140° | 726.6  | 11.5      |
| 140°-150° | 665.5  | 10.5      |
| 150°-160° | 533.3  | 8.4       |
| 160°-170° | 343.6  | 5.4       |
| 170°-180° | 118.3  | 1.9       |
| 0°-30°    | 548.3  | 8.7       |
| 0°-40°    | 901.6  | 14.2      |
| 0°-60°    | 1650.8 | 26.1      |
| 0°-90°    | 2389.6 | 37.7      |
| 90°-120°  | 852.4  | 13.5      |
| 90°-150°  | 2947.2 | 46.5      |
| 90°-180°  | 3942.0 | 62.3      |
| 0°-180°   | 6332.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 704  | 704   | 704  | 704   | 704  |      |
| 5°   | 706  | 703   | 697  | 703   | 702  | 67   |
| 15°  | 674  | 676   | 676  | 685   | 684  | 190  |
| 25°  | 612  | 620   | 629  | 641   | 644  | 282  |
| 35°  | 528  | 545   | 564  | 587   | 594  | 330  |
| 45°  | 433  | 460   | 496  | 528   | 538  | 334  |
| 55°  | 332  | 368   | 422  | 458   | 472  | 297  |
| 65°  | 227  | 277   | 337  | 379   | 392  | 225  |
| 75°  | 126  | 183   | 248  | 292   | 305  | 133  |
| 85°  | 37   | 100   | 165  | 208   | 222  | 39   |
| 90°  | 11   | 80    | 153  | 198   | 212  | 10   |
| 95°  | 67   | 85    | 152  | 196   | 207  | 76   |
| 105° | 278  | 335   | 143  | 188   | 203  | 298  |
| 115° | 521  | 548   | 616  | 230   | 177  | 513  |
| 125° | 733  | 745   | 794  | 828   | 840  | 654  |
| 135° | 906  | 920   | 938  | 969   | 975  | 700  |
| 145° | 1049 | 1048  | 1064 | 1076  | 1077 | 657  |
| 155° | 1155 | 1147  | 1158 | 1164  | 1156 | 532  |
| 165° | 1217 | 1212  | 1215 | 1221  | 1215 | 344  |
| 175° | 1245 | 1239  | 1241 | 1247  | 1238 | 119  |
| 180° | 1243 | 1243  | 1243 | 1243  | 1243 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 |
| 2.5°   | 709.3 | 706.2 | 699.1 | 704.2 | 702.2 |
| 5°     | 706.2 | 703.2 | 697.1 | 703.2 | 702.2 |
| 7.5°   | 701.1 | 699.1 | 694.0 | 701.1 | 700.1 |
| 10°    | 695.0 | 693.0 | 689.9 | 698.1 | 697.1 |
| 12.5°  | 684.8 | 685.8 | 683.8 | 692.0 | 690.9 |
| 15°    | 673.6 | 675.6 | 675.6 | 684.8 | 683.8 |
| 17.5°  | 659.3 | 663.4 | 666.4 | 675.6 | 675.6 |
| 20°    | 645.0 | 650.1 | 654.2 | 665.4 | 665.4 |
| 22.5°  | 629.7 | 635.8 | 641.9 | 653.2 | 655.2 |
| 25°    | 612.4 | 619.5 | 628.7 | 640.9 | 644.0 |
| 27.5°  | 591.9 | 603.2 | 613.4 | 628.7 | 630.7 |
| 30°    | 571.5 | 584.8 | 598.1 | 614.4 | 617.5 |
| 32.5°  | 549.1 | 564.4 | 580.7 | 600.1 | 606.2 |
| 35°    | 527.6 | 545.0 | 564.4 | 586.8 | 594.0 |
| 37.5°  | 504.2 | 523.6 | 548.1 | 572.5 | 579.7 |
| 40°    | 480.7 | 503.1 | 530.7 | 557.2 | 566.4 |
| 42.5°  | 458.2 | 480.7 | 513.4 | 543.0 | 552.1 |
| 45°    | 432.7 | 460.3 | 496.0 | 527.6 | 537.8 |
| 47.5°  | 408.2 | 437.8 | 478.7 | 511.3 | 522.5 |
| 50°    | 382.7 | 414.4 | 460.3 | 495.0 | 506.2 |
| 52.5°  | 358.2 | 391.9 | 440.9 | 476.6 | 488.9 |
| 55°    | 331.7 | 368.4 | 421.5 | 458.2 | 471.5 |
| 57.5°  | 306.2 | 347.0 | 400.1 | 439.9 | 453.1 |
| 60°    | 278.6 | 322.5 | 380.7 | 419.5 | 433.7 |
| 62.5°  | 254.1 | 300.1 | 358.2 | 400.1 | 413.3 |
| 65°    | 226.6 | 276.6 | 336.8 | 378.6 | 391.9 |
| 67.5°  | 202.1 | 254.1 | 315.4 | 357.2 | 371.5 |
| 70°    | 175.5 | 228.6 | 291.9 | 335.8 | 348.0 |
| 72.5°  | 151.0 | 206.2 | 270.5 | 313.3 | 328.6 |
| 75°    | 125.5 | 182.7 | 248.0 | 291.9 | 305.2 |
| 77.5°  | 101.0 | 160.2 | 226.6 | 270.5 | 284.7 |
| 80°    | 76.5  | 138.8 | 205.1 | 248.0 | 262.3 |
| 82.5°  | 56.1  | 117.4 | 184.7 | 227.6 | 240.9 |
| 85°    | 36.7  | 100.0 | 165.3 | 208.2 | 222.5 |
| 87.5°  | 22.5  | 83.7  | 149.0 | 190.8 | 204.1 |
| 90°    | 11.1  | 80.2  | 152.7 | 198.0 | 212.1 |
| 92.5°  | 31.7  | 82.2  | 147.1 | 188.7 | 201.9 |
| 95°    | 66.6  | 84.9  | 152.5 | 195.7 | 207.1 |
| 97.5°  | 112.3 | 82.5  | 156.1 | 196.6 | 209.7 |
| 100°   | 166.2 | 80.9  | 153.3 | 198.2 | 211.2 |
| 102.5° | 224.6 | 256.5 | 147.9 | 194.6 | 208.5 |
| 105°   | 278.4 | 335.0 | 142.6 | 188.2 | 203.0 |
| 107.5° | 342.3 | 389.2 | 137.2 | 181.8 | 196.7 |
| 110°   | 402.4 | 441.7 | 231.8 | 174.6 | 189.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 460.0  | 492.4  | 524.2  | 169.2  | 183.1  |
| 115°   | 521.1  | 547.6  | 616.0  | 230.4  | 176.8  |
| 117.5° | 573.1  | 599.2  | 657.4  | 559.4  | 334.1  |
| 120°   | 632.5  | 650.0  | 707.1  | 746.3  | 636.3  |
| 122.5° | 682.8  | 698.2  | 753.9  | 786.9  | 797.0  |
| 125°   | 733.0  | 744.7  | 794.5  | 828.3  | 840.1  |
| 127.5° | 779.7  | 791.3  | 832.4  | 866.9  | 877.0  |
| 130°   | 823.8  | 837.2  | 868.6  | 902.9  | 910.2  |
| 132.5° | 868.8  | 879.4  | 904.6  | 936.2  | 943.5  |
| 135°   | 905.5  | 919.9  | 938.2  | 968.7  | 975.0  |
| 137.5° | 945.1  | 955.9  | 970.0  | 998.3  | 1002.8 |
| 140°   | 983.7  | 989.9  | 1001.8 | 1026.3 | 1027.9 |
| 142.5° | 1016.1 | 1021.4 | 1033.1 | 1052.5 | 1053.1 |
| 145°   | 1049.3 | 1048.4 | 1063.7 | 1076.1 | 1076.7 |
| 147.5° | 1078.9 | 1076.2 | 1091.5 | 1097.0 | 1096.5 |
| 150°   | 1107.7 | 1101.4 | 1115.8 | 1121.2 | 1116.7 |
| 152.5° | 1132.0 | 1124.8 | 1138.3 | 1143.7 | 1137.4 |
| 155°   | 1155.4 | 1147.3 | 1158.1 | 1163.5 | 1156.3 |
| 157.5° | 1174.2 | 1167.1 | 1175.1 | 1181.4 | 1174.2 |
| 160°   | 1190.4 | 1185.0 | 1190.4 | 1195.8 | 1189.5 |
| 162.5° | 1204.8 | 1199.4 | 1203.9 | 1210.2 | 1202.1 |
| 165°   | 1217.4 | 1212.0 | 1214.7 | 1221.0 | 1214.7 |
| 167.5° | 1227.3 | 1221.9 | 1224.6 | 1230.9 | 1222.8 |
| 170°   | 1235.4 | 1230.0 | 1231.8 | 1238.1 | 1230.0 |
| 172.5° | 1240.8 | 1235.4 | 1237.2 | 1243.5 | 1235.4 |
| 175°   | 1245.3 | 1239.0 | 1240.8 | 1247.1 | 1238.1 |
| 177.5° | 1247.1 | 1240.8 | 1241.7 | 1248.0 | 1239.9 |
| 180°   | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 |

(END OF REPORT)