

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: P1009277

Luminaire Tested: S122DIP-B675D330UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009277  
REPORT IS A COMBINATION OF REPORTS P984518 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B675D330UB35-4F0-XX-W2A-F1  
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

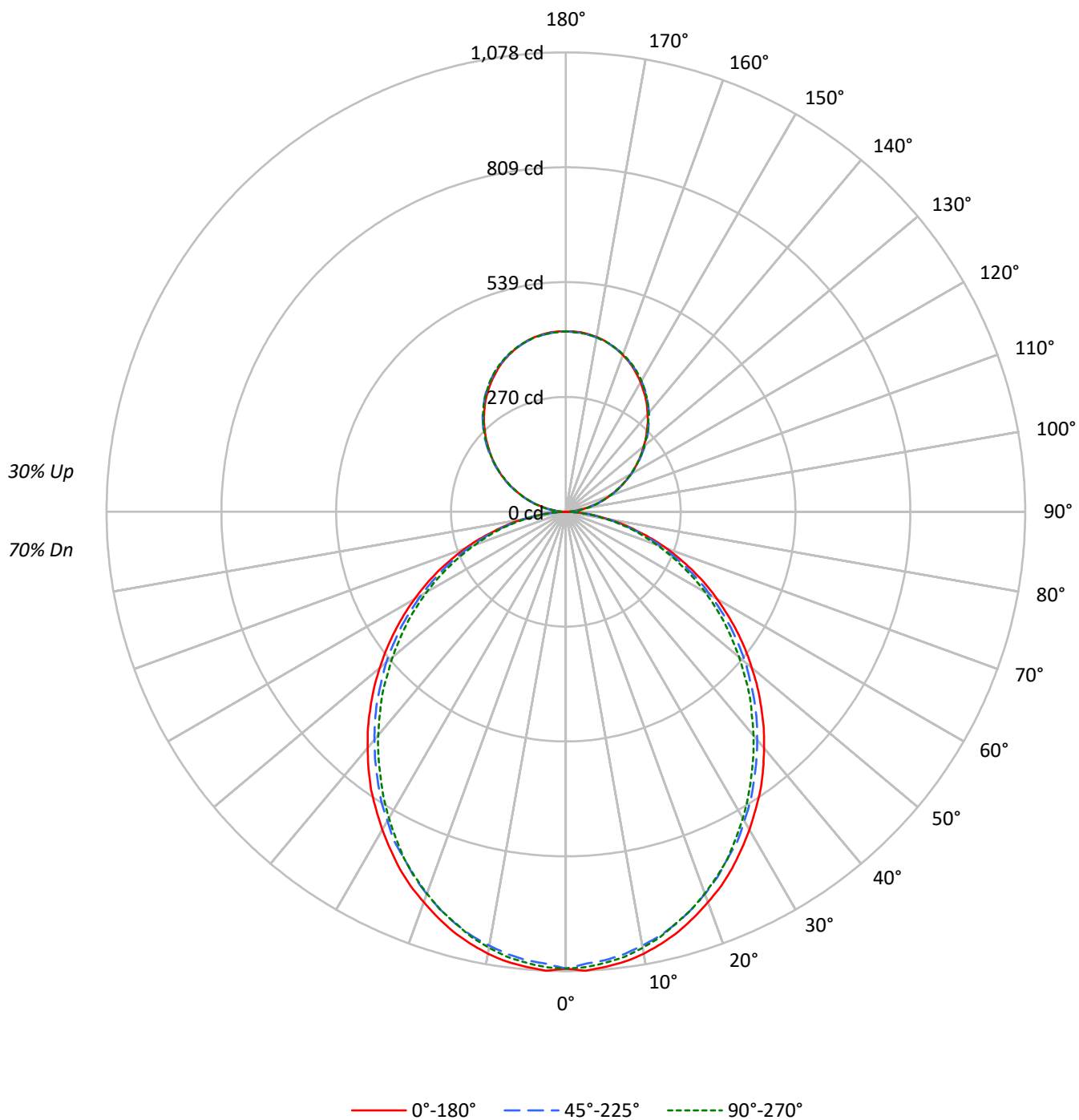
Lumens per Lamp: N/A  
Luminaire Lumens: 3911.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

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 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 84 | 84 | 84 | 74 | 74 | 74 |
| 1   | 102 | 98  | 94  | 90  | 96  | 93  | 89  | 86  | 83 | 80 | 78 | 74 | 72 | 70 | 66 | 64 | 63 |
| 2   | 93  | 85  | 79  | 74  | 88  | 81  | 75  | 71  | 73 | 68 | 64 | 65 | 62 | 59 | 58 | 55 | 53 |
| 3   | 85  | 75  | 68  | 61  | 80  | 71  | 65  | 59  | 64 | 59 | 54 | 57 | 53 | 50 | 51 | 48 | 45 |
| 4   | 78  | 67  | 58  | 52  | 73  | 63  | 56  | 50  | 57 | 51 | 46 | 51 | 46 | 43 | 46 | 42 | 39 |
| 5   | 72  | 59  | 51  | 45  | 67  | 57  | 49  | 43  | 51 | 45 | 40 | 46 | 41 | 37 | 41 | 37 | 34 |
| 6   | 66  | 54  | 45  | 39  | 62  | 51  | 43  | 38  | 46 | 40 | 35 | 42 | 36 | 32 | 38 | 33 | 30 |
| 7   | 61  | 48  | 40  | 34  | 58  | 46  | 39  | 33  | 42 | 36 | 31 | 38 | 33 | 29 | 34 | 30 | 27 |
| 8   | 57  | 44  | 36  | 31  | 54  | 42  | 35  | 30  | 38 | 32 | 28 | 35 | 30 | 26 | 32 | 27 | 24 |
| 9   | 53  | 40  | 33  | 27  | 50  | 39  | 31  | 27  | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 25 | 22 |
| 10  | 50  | 37  | 30  | 25  | 47  | 36  | 29  | 24  | 33 | 27 | 23 | 30 | 25 | 21 | 27 | 23 | 20 |

**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  | 2.6       |
| 10°-20°   | 283.8  | 7.3       |
| 20°-30°   | 417.1  | 10.7      |
| 30°-40°   | 484.5  | 12.4      |
| 40°-50°   | 483.9  | 12.4      |
| 50°-60°   | 421.9  | 10.8      |
| 60°-70°   | 311.9  | 8.0       |
| 70°-80°   | 176.5  | 4.5       |
| 80°-90°   | 47.8   | 1.2       |
| 90°-100°  | 26.2   | 0.7       |
| 100°-110° | 83.2   | 2.1       |
| 110°-120° | 142.4  | 3.6       |
| 120°-130° | 187.2  | 4.8       |
| 130°-140° | 210.2  | 5.4       |
| 140°-150° | 206.1  | 5.3       |
| 150°-160° | 172.9  | 4.4       |
| 160°-170° | 114.7  | 2.9       |
| 170°-180° | 40.1   | 1.0       |
| 0°-30°    | 801.8  | 20.5      |
| 0°-40°    | 1286.3 | 32.9      |
| 0°-60°    | 2192.1 | 56.0      |
| 0°-90°    | 2728.2 | 69.8      |
| 90°-120°  | 251.7  | 6.4       |
| 90°-150°  | 855.2  | 21.9      |
| 90°-180°  | 1183.0 | 30.2      |
| 0°-180°   | 3911.0 | 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°  | 0    | 5     | 12   | 12    | 12   | 4    |
| 95°  | 19   | 22    | 23   | 23    | 22   | 21   |
| 105° | 77   | 78    | 78   | 79    | 79   | 81   |
| 115° | 143  | 145   | 144  | 144   | 143  | 141  |
| 125° | 208  | 211   | 210  | 209   | 208  | 186  |
| 135° | 269  | 273   | 274  | 273   | 272  | 208  |
| 145° | 326  | 329   | 331  | 331   | 330  | 204  |
| 155° | 373  | 374   | 375  | 377   | 376  | 172  |
| 165° | 406  | 406   | 406  | 408   | 406  | 115  |
| 175° | 422  | 421   | 421  | 423   | 421  | 40   |
| 180° | 423  | 423   | 423  | 423   | 423  |      |

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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°    | 0.4    | 4.6    | 12.5   | 11.8   | 12.1   |
| 92.5°  | 7.9    | 10.7   | 11.1   | 11.4   | 11.4   |
| 95°    | 18.6   | 22.1   | 22.8   | 22.8   | 22.1   |
| 97.5°  | 31.1   | 34.3   | 35.7   | 35.7   | 35.7   |
| 100°   | 45.3   | 48.2   | 49.3   | 49.3   | 48.9   |
| 102.5° | 60.3   | 62.5   | 63.9   | 64.3   | 63.9   |
| 105°   | 76.8   | 77.8   | 78.5   | 79.3   | 79.3   |
| 107.5° | 93.2   | 94.6   | 94.6   | 95.0   | 93.2   |
| 110°   | 108.9  | 111.0  | 111.0  | 111.0  | 110.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 126.0 | 128.2 | 127.8 | 126.7 | 126.0 |
| 115°   | 142.8 | 144.9 | 144.2 | 143.9 | 142.8 |
| 117.5° | 159.6 | 162.4 | 160.7 | 159.6 | 158.5 |
| 120°   | 176.4 | 179.2 | 176.4 | 176.4 | 175.3 |
| 122.5° | 191.7 | 195.3 | 193.5 | 192.4 | 191.7 |
| 125°   | 207.8 | 211.0 | 209.9 | 208.9 | 208.5 |
| 127.5° | 223.5 | 227.4 | 226.0 | 224.6 | 223.5 |
| 130°   | 238.1 | 242.8 | 242.1 | 241.3 | 239.9 |
| 132.5° | 254.6 | 258.1 | 258.5 | 256.7 | 255.6 |
| 135°   | 268.8 | 272.8 | 273.5 | 273.1 | 272.0 |
| 137.5° | 284.5 | 287.8 | 288.5 | 288.1 | 286.7 |
| 140°   | 298.5 | 301.7 | 303.5 | 303.5 | 302.0 |
| 142.5° | 312.7 | 316.0 | 317.0 | 317.4 | 316.0 |
| 145°   | 326.3 | 328.8 | 331.0 | 331.3 | 329.9 |
| 147.5° | 338.4 | 341.7 | 343.1 | 343.8 | 342.4 |
| 150°   | 350.9 | 353.1 | 354.5 | 355.6 | 354.5 |
| 152.5° | 362.0 | 364.2 | 365.9 | 367.4 | 365.9 |
| 155°   | 373.1 | 374.1 | 375.2 | 377.0 | 375.9 |
| 157.5° | 382.7 | 383.4 | 384.1 | 386.6 | 384.9 |
| 160°   | 391.3 | 392.0 | 392.4 | 394.5 | 393.1 |
| 162.5° | 399.1 | 399.1 | 399.5 | 402.0 | 400.2 |
| 165°   | 405.9 | 405.6 | 405.6 | 408.1 | 406.3 |
| 167.5° | 412.0 | 410.9 | 410.9 | 413.4 | 411.6 |
| 170°   | 416.6 | 415.6 | 415.2 | 417.7 | 415.6 |
| 172.5° | 419.8 | 418.8 | 418.4 | 420.9 | 418.8 |
| 175°   | 422.3 | 421.3 | 420.6 | 423.1 | 420.9 |
| 177.5° | 423.8 | 422.7 | 422.0 | 424.1 | 422.0 |
| 180°   | 423.1 | 423.1 | 423.1 | 423.1 | 423.1 |

(END OF REPORT)