

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: P1010202

Luminaire Tested: S122RDIP-B675D725UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010202  
REPORT IS A COMBINATION OF REPORTS P988564 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B675D725UB35-4F0-XX-W2A-F1  
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}  
{m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

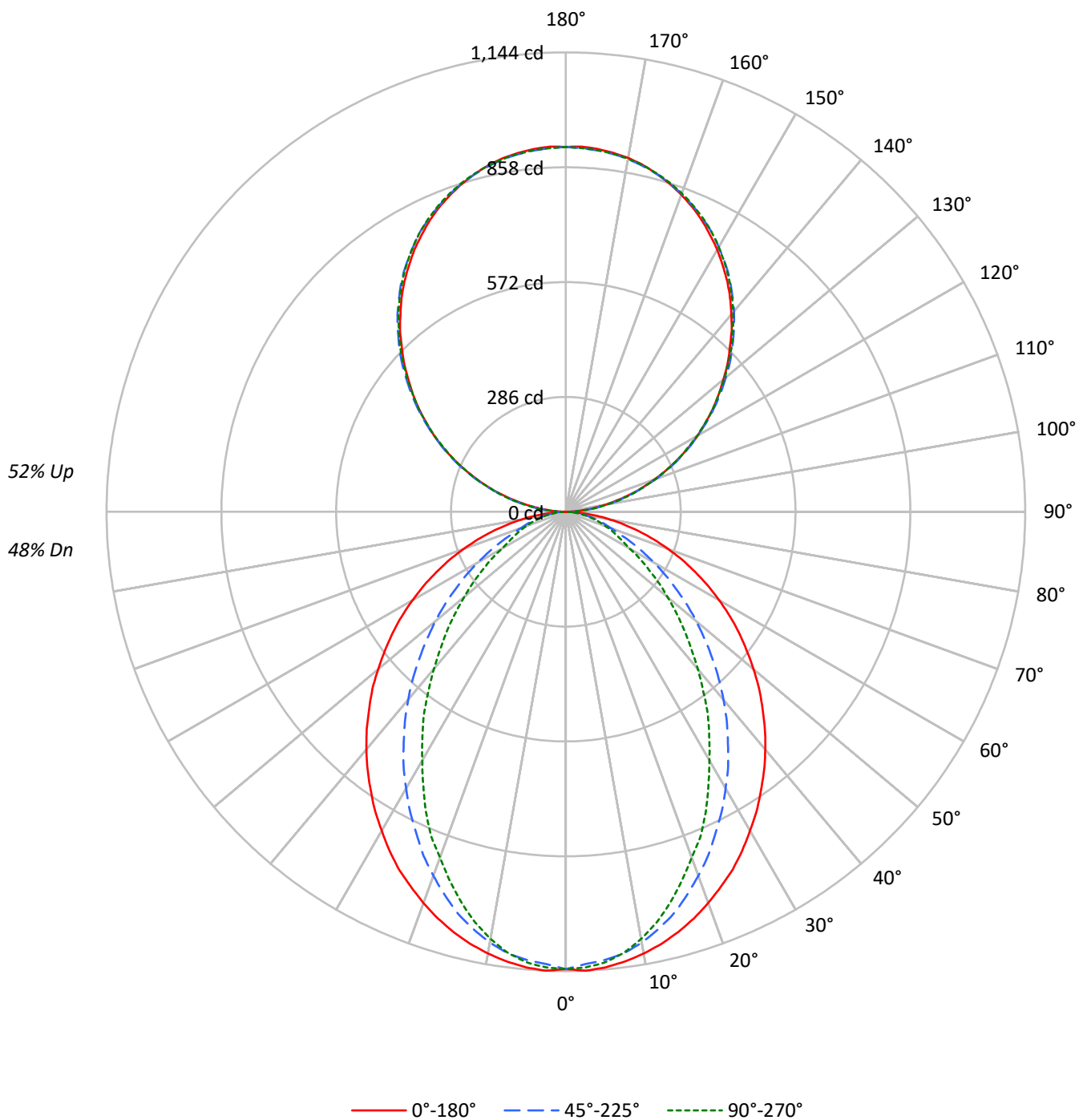
Lumens per Lamp: N/A  
Luminaire Lumens: 4885.0 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 57  
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   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 |
| 1   | 98  | 94  | 90  | 87  | 90 | 86 | 83 | 80 | 73 | 70 | 68 | 60 | 59 | 57 | 49 | 48 | 47 |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 71 | 67 | 64 | 61 | 57 | 53 | 51 | 49 | 43 | 42 | 40 |
| 3   | 82  | 73  | 66  | 60  | 75 | 67 | 61 | 56 | 57 | 53 | 49 | 48 | 44 | 42 | 39 | 37 | 35 |
| 4   | 75  | 65  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 35 | 32 | 30 |
| 5   | 69  | 58  | 50  | 44  | 63 | 54 | 47 | 42 | 46 | 41 | 36 | 39 | 35 | 32 | 32 | 29 | 27 |
| 6   | 64  | 52  | 44  | 39  | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 24 |
| 7   | 59  | 47  | 39  | 34  | 54 | 44 | 37 | 32 | 38 | 32 | 28 | 32 | 28 | 25 | 27 | 24 | 21 |
| 8   | 55  | 43  | 35  | 30  | 51 | 40 | 33 | 29 | 35 | 29 | 25 | 29 | 25 | 22 | 25 | 21 | 19 |
| 9   | 51  | 39  | 32  | 27  | 47 | 37 | 30 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 23 | 20 | 17 |
| 10  | 48  | 36  | 29  | 24  | 44 | 34 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 21 | 18 | 16 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 18026 | 18026 | 18026 |
| 5°  | 18056 | 17149 | 17022 |
| 10° | 17877 | 16265 | 15728 |
| 15° | 17631 | 15221 | 14253 |
| 20° | 17306 | 14034 | 12712 |
| 25° | 16973 | 12817 | 11299 |
| 30° | 16526 | 11630 | 9758  |
| 35° | 16088 | 10434 | 8435  |
| 40° | 15643 | 9259  | 7072  |
| 45° | 15124 | 8046  | 5883  |
| 50° | 14590 | 6877  | 4789  |
| 55° | 14032 | 5708  | 3802  |
| 60° | 13385 | 4565  | 2876  |
| 65° | 12638 | 3480  | 2339  |
| 70° | 11736 | 2524  | 1859  |
| 75° | 10606 | 1925  | 1420  |
| 80° | 8966  | 1304  | 952   |
| 85° | 6258  | 598   | 461   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15124 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 106.7  | 2.2       |
| 10°-20°   | 293.0  | 6.0       |
| 20°-30°   | 411.3  | 8.4       |
| 30°-40°   | 448.4  | 9.2       |
| 40°-50°   | 412.1  | 8.4       |
| 50°-60°   | 323.6  | 6.6       |
| 60°-70°   | 210.7  | 4.3       |
| 70°-80°   | 108.4  | 2.2       |
| 80°-90°   | 30.3   | 0.6       |
| 90°-100°  | 56.2   | 1.2       |
| 100°-110° | 178.7  | 3.7       |
| 110°-120° | 305.8  | 6.3       |
| 120°-130° | 402.1  | 8.2       |
| 130°-140° | 451.4  | 9.2       |
| 140°-150° | 442.6  | 9.1       |
| 150°-160° | 371.3  | 7.6       |
| 160°-170° | 246.2  | 5.0       |
| 170°-180° | 86.1   | 1.8       |
| 0°-30°    | 811.1  | 16.6      |
| 0°-40°    | 1259.4 | 25.8      |
| 0°-60°    | 1995.2 | 40.8      |
| 0°-90°    | 2344.6 | 48.0      |
| 90°-120°  | 540.7  | 11.1      |
| 90°-150°  | 1836.8 | 37.6      |
| 90°-180°  | 2540.0 | 52.0      |
| 0°-180°   | 4885.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1139 | 1139  | 1139 | 1139  | 1139 |      |
| 5°   | 1139 | 1134  | 1120 | 1130  | 1126 | 108  |
| 15°  | 1083 | 1072  | 1037 | 1017  | 1007 | 305  |
| 25°  | 983  | 950   | 882  | 840   | 824  | 452  |
| 35°  | 847  | 795   | 704  | 639   | 616  | 530  |
| 45°  | 692  | 624   | 515  | 442   | 417  | 535  |
| 55°  | 527  | 446   | 335  | 273   | 254  | 471  |
| 65°  | 356  | 272   | 179  | 144   | 141  | 352  |
| 75°  | 190  | 118   | 82   | 75    | 74   | 201  |
| 85°  | 44   | 23    | 20   | 20    | 20   | 51   |
| 90°  | 1    | 10    | 27   | 25    | 26   | 5    |
| 95°  | 40   | 48    | 49   | 49    | 48   | 45   |
| 105° | 165  | 167   | 169  | 170   | 170  | 174  |
| 115° | 307  | 311   | 310  | 309   | 307  | 303  |
| 125° | 446  | 453   | 451  | 449   | 448  | 399  |
| 135° | 577  | 586   | 587  | 587   | 584  | 446  |
| 145° | 701  | 706   | 711  | 712   | 708  | 438  |
| 155° | 801  | 804   | 806  | 810   | 807  | 369  |
| 165° | 872  | 871   | 871  | 876   | 873  | 246  |
| 175° | 907  | 905   | 903  | 909   | 904  | 86   |
| 180° | 909  | 909   | 909  | 909   | 909  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 |
| 2.5°   | 1143.9 | 1138.8 | 1127.4 | 1137.7 | 1135.7 |
| 5°     | 1138.8 | 1133.6 | 1120.2 | 1129.5 | 1126.4 |
| 7.5°   | 1129.5 | 1123.3 | 1108.9 | 1113.0 | 1107.8 |
| 10°    | 1117.1 | 1109.9 | 1089.3 | 1086.2 | 1080.0 |
| 12.5°  | 1101.7 | 1092.4 | 1064.6 | 1058.4 | 1047.0 |
| 15°    | 1083.1 | 1071.8 | 1036.7 | 1017.2 | 1006.8 |
| 17.5°  | 1061.5 | 1045.0 | 1001.7 | 979.0  | 962.5  |
| 20°    | 1036.7 | 1016.1 | 964.6  | 938.8  | 916.2  |
| 22.5°  | 1009.9 | 986.2  | 926.5  | 891.4  | 876.0  |
| 25°    | 983.1  | 950.2  | 882.2  | 839.9  | 824.4  |
| 27.5°  | 951.2  | 916.2  | 840.9  | 792.5  | 768.8  |
| 30°    | 917.2  | 878.0  | 795.6  | 743.0  | 715.2  |
| 32.5°  | 884.2  | 836.8  | 752.3  | 690.5  | 664.7  |
| 35°    | 847.1  | 794.6  | 703.9  | 638.9  | 616.3  |
| 37.5°  | 811.0  | 754.4  | 658.5  | 587.4  | 561.6  |
| 40°    | 772.9  | 711.1  | 611.1  | 537.9  | 511.2  |
| 42.5°  | 733.8  | 667.8  | 563.7  | 487.4  | 461.7  |
| 45°    | 692.5  | 623.5  | 515.3  | 442.1  | 417.4  |
| 47.5°  | 653.4  | 580.2  | 468.9  | 395.7  | 373.1  |
| 50°    | 610.1  | 536.9  | 423.6  | 352.4  | 330.8  |
| 52.5°  | 567.8  | 490.5  | 380.3  | 312.3  | 292.7  |
| 55°    | 526.6  | 446.2  | 334.9  | 273.1  | 253.5  |
| 57.5°  | 484.4  | 401.9  | 294.7  | 237.0  | 220.5  |
| 60°    | 441.1  | 358.6  | 252.5  | 199.9  | 183.4  |
| 62.5°  | 398.8  | 316.4  | 216.4  | 166.9  | 158.7  |
| 65°    | 355.5  | 272.1  | 179.3  | 144.3  | 141.2  |
| 67.5°  | 314.3  | 230.8  | 144.3  | 126.8  | 123.7  |
| 70°    | 271.0  | 190.7  | 119.5  | 109.2  | 105.1  |
| 72.5°  | 229.8  | 153.6  | 100.0  | 91.7   | 89.7   |
| 75°    | 189.6  | 117.5  | 82.4   | 75.2   | 74.2   |
| 77.5°  | 149.4  | 83.5   | 64.9   | 60.8   | 58.7   |
| 80°    | 112.3  | 59.8   | 49.5   | 45.3   | 45.3   |
| 82.5°  | 78.3   | 40.2   | 34.0   | 31.9   | 31.9   |
| 85°    | 44.3   | 22.7   | 19.6   | 19.6   | 19.6   |
| 87.5°  | 16.5   | 8.2    | 8.2    | 7.2    | 7.2    |
| 90°    | 0.8    | 10.0   | 26.8   | 25.3   | 26.1   |
| 92.5°  | 16.9   | 23.0   | 23.8   | 24.5   | 24.5   |
| 95°    | 39.9   | 47.5   | 49.1   | 49.1   | 47.5   |
| 97.5°  | 66.7   | 73.6   | 76.7   | 76.7   | 76.7   |
| 100°   | 97.4   | 103.5  | 105.8  | 105.8  | 105.1  |
| 102.5° | 129.6  | 134.2  | 137.3  | 138.0  | 137.3  |
| 105°   | 164.9  | 167.2  | 168.7  | 170.2  | 170.2  |
| 107.5° | 200.1  | 203.2  | 203.2  | 204.0  | 200.1  |
| 110°   | 233.9  | 238.5  | 238.5  | 238.5  | 236.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 270.7 | 275.3 | 274.5 | 272.2 | 270.7 |
| 115°   | 306.7 | 311.3 | 309.8 | 309.0 | 306.7 |
| 117.5° | 342.8 | 348.9 | 345.1 | 342.8 | 340.5 |
| 120°   | 378.8 | 384.9 | 378.8 | 378.8 | 376.5 |
| 122.5° | 411.8 | 419.4 | 415.6 | 413.3 | 411.8 |
| 125°   | 446.3 | 453.2 | 450.9 | 448.6 | 447.8 |
| 127.5° | 480.0 | 488.4 | 485.4 | 482.3 | 480.0 |
| 130°   | 511.5 | 521.4 | 519.9 | 518.4 | 515.3 |
| 132.5° | 546.7 | 554.4 | 555.2 | 551.3 | 549.0 |
| 135°   | 577.4 | 585.8 | 587.4 | 586.6 | 584.3 |
| 137.5° | 611.1 | 618.0 | 619.6 | 618.8 | 615.7 |
| 140°   | 641.0 | 647.9 | 651.8 | 651.8 | 648.7 |
| 142.5° | 671.7 | 678.6 | 680.9 | 681.7 | 678.6 |
| 145°   | 700.8 | 706.2 | 710.8 | 711.6 | 708.5 |
| 147.5° | 726.9 | 733.8 | 736.9 | 738.4 | 735.4 |
| 150°   | 753.8 | 758.4 | 761.4 | 763.7 | 761.4 |
| 152.5° | 777.5 | 782.1 | 786.0 | 789.0 | 786.0 |
| 155°   | 801.3 | 803.6 | 805.9 | 809.7 | 807.4 |
| 157.5° | 822.0 | 823.5 | 825.1 | 830.4 | 826.6 |
| 160°   | 840.4 | 841.9 | 842.7 | 847.3 | 844.2 |
| 162.5° | 857.3 | 857.3 | 858.0 | 863.4 | 859.6 |
| 165°   | 871.8 | 871.1 | 871.1 | 876.4 | 872.6 |
| 167.5° | 884.9 | 882.6 | 882.6 | 887.9 | 884.1 |
| 170°   | 894.8 | 892.5 | 891.8 | 897.1 | 892.5 |
| 172.5° | 901.7 | 899.4 | 898.7 | 904.0 | 899.4 |
| 175°   | 907.1 | 904.8 | 903.3 | 908.7 | 904.0 |
| 177.5° | 910.2 | 907.9 | 906.3 | 911.0 | 906.3 |
| 180°   | 908.7 | 908.7 | 908.7 | 908.7 | 908.7 |

(END OF REPORT)