

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: P1009960

Luminaire Tested: S122RDIP-B485D1080UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1009960  
REPORT IS A COMBINATION OF REPORTS P988238 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B485D1080UB30-4F0-XX-W2A-F1  
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

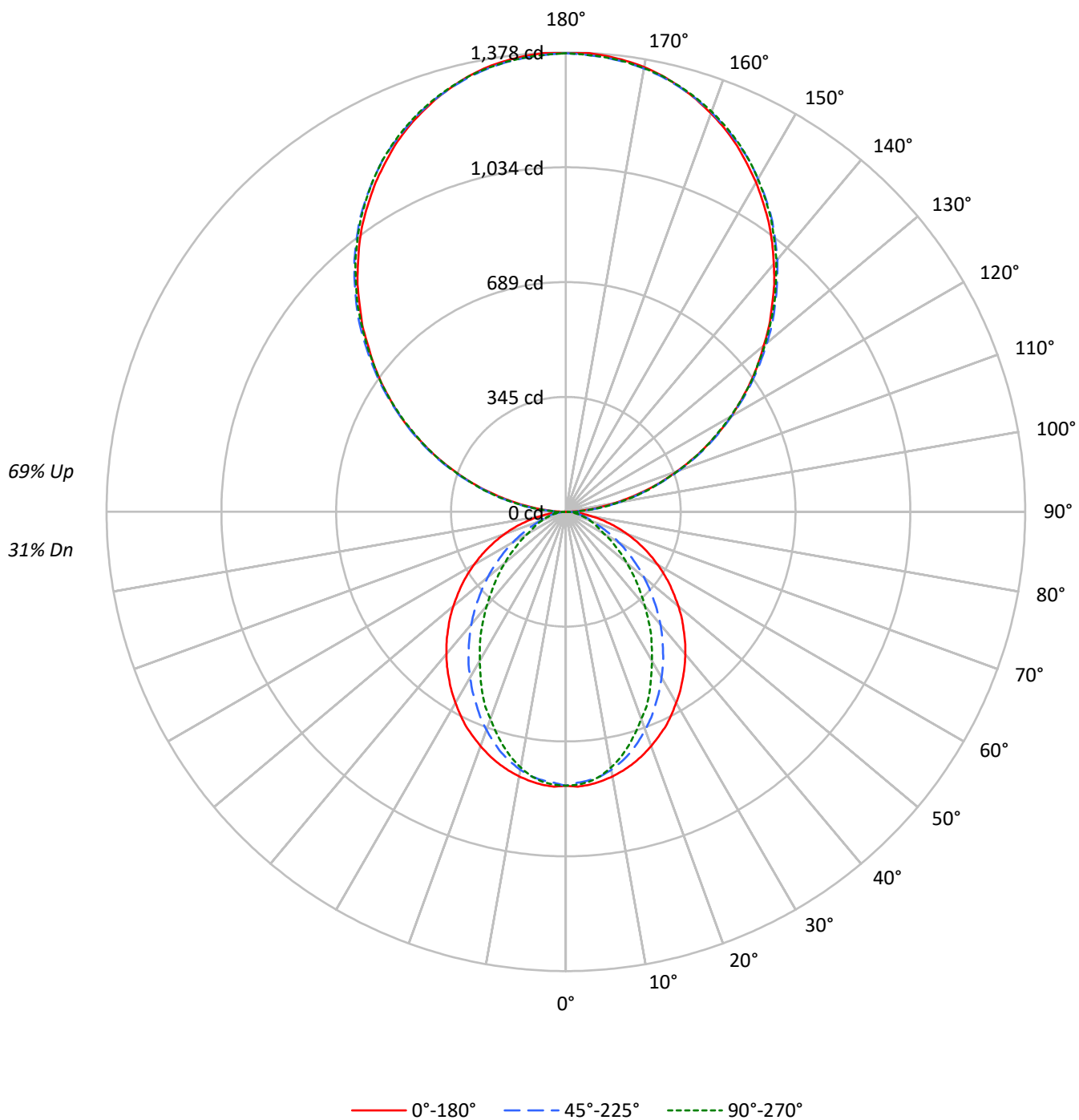
Lumens per Lamp: N/A  
Luminaire Lumens: 5540.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 59  
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   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 38 | 38 | 38 |
| 1   | 94  | 90  | 86  | 83  | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 48 | 47 | 46 | 34 | 33 | 33 |
| 2   | 86  | 79  | 73  | 68  | 77 | 71 | 66 | 62 | 56 | 53 | 50 | 43 | 41 | 39 | 30 | 29 | 28 |
| 3   | 78  | 69  | 62  | 57  | 70 | 63 | 57 | 52 | 50 | 46 | 42 | 38 | 35 | 33 | 27 | 26 | 24 |
| 4   | 72  | 61  | 54  | 48  | 64 | 56 | 49 | 44 | 44 | 40 | 36 | 34 | 31 | 29 | 25 | 23 | 21 |
| 5   | 66  | 55  | 47  | 41  | 59 | 50 | 43 | 38 | 40 | 35 | 31 | 31 | 27 | 25 | 22 | 20 | 19 |
| 6   | 61  | 49  | 41  | 36  | 54 | 44 | 38 | 33 | 36 | 31 | 27 | 28 | 24 | 22 | 20 | 18 | 16 |
| 7   | 56  | 44  | 37  | 31  | 50 | 40 | 34 | 29 | 33 | 28 | 24 | 25 | 22 | 19 | 19 | 16 | 15 |
| 8   | 52  | 40  | 33  | 28  | 47 | 37 | 30 | 26 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 |
| 9   | 48  | 37  | 29  | 25  | 43 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 16 | 16 | 14 | 12 |
| 10  | 45  | 33  | 27  | 22  | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 12 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13007 | 13007 | 13007 |
| 5°  | 13028 | 12374 | 12283 |
| 10° | 12900 | 11736 | 11349 |
| 15° | 12723 | 10983 | 10285 |
| 20° | 12488 | 10128 | 9173  |
| 25° | 12247 | 9249  | 8154  |
| 30° | 11924 | 8392  | 7042  |
| 35° | 11610 | 7529  | 6086  |
| 40° | 11287 | 6682  | 5104  |
| 45° | 10913 | 5806  | 4245  |
| 50° | 10527 | 4962  | 3456  |
| 55° | 10126 | 4119  | 2743  |
| 60° | 9659  | 3294  | 2076  |
| 65° | 9122  | 2511  | 1688  |
| 70° | 8471  | 1823  | 1343  |
| 75° | 7653  | 1390  | 1024  |
| 80° | 6475  | 941   | 687   |
| 85° | 4520  | 430   | 332   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10913 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.0   | 1.4       |
| 10°-20°   | 211.4  | 3.8       |
| 20°-30°   | 296.8  | 5.4       |
| 30°-40°   | 323.6  | 5.8       |
| 40°-50°   | 297.4  | 5.4       |
| 50°-60°   | 233.5  | 4.2       |
| 60°-70°   | 152.0  | 2.7       |
| 70°-80°   | 78.3   | 1.4       |
| 80°-90°   | 23.9   | 0.4       |
| 90°-100°  | 85.1   | 1.5       |
| 100°-110° | 270.5  | 4.9       |
| 110°-120° | 462.9  | 8.4       |
| 120°-130° | 608.8  | 11.0      |
| 130°-140° | 683.4  | 12.3      |
| 140°-150° | 670.1  | 12.1      |
| 150°-160° | 562.1  | 10.1      |
| 160°-170° | 372.8  | 6.7       |
| 170°-180° | 130.3  | 2.4       |
| 0°-30°    | 585.3  | 10.6      |
| 0°-40°    | 908.8  | 16.4      |
| 0°-60°    | 1439.7 | 26.0      |
| 0°-90°    | 1693.9 | 30.6      |
| 90°-120°  | 818.5  | 14.8      |
| 90°-150°  | 2780.8 | 50.2      |
| 90°-180°  | 3846.0 | 69.4      |
| 0°-180°   | 5540.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 822  | 822   | 822  | 822   | 822  |      |
| 5°   | 822  | 818   | 808  | 815   | 813  | 78   |
| 15°  | 782  | 773   | 748  | 734   | 726  | 220  |
| 25°  | 709  | 686   | 637  | 606   | 595  | 326  |
| 35°  | 611  | 573   | 508  | 461   | 445  | 383  |
| 45°  | 500  | 450   | 372  | 319   | 301  | 386  |
| 55°  | 380  | 322   | 242  | 197   | 183  | 340  |
| 65°  | 257  | 196   | 129  | 104   | 102  | 254  |
| 75°  | 137  | 85    | 60   | 54    | 54   | 145  |
| 85°  | 32   | 16    | 14   | 14    | 14   | 37   |
| 90°  | 1    | 15    | 41   | 38    | 40   | 5    |
| 95°  | 60   | 72    | 74   | 74    | 72   | 67   |
| 105° | 250  | 253   | 255  | 258   | 258  | 264  |
| 115° | 464  | 471   | 469  | 468   | 464  | 459  |
| 125° | 676  | 686   | 683  | 679   | 678  | 604  |
| 135° | 874  | 887   | 889  | 888   | 885  | 675  |
| 145° | 1061 | 1069  | 1076 | 1077  | 1073 | 663  |
| 155° | 1213 | 1217  | 1220 | 1226  | 1222 | 558  |
| 165° | 1320 | 1319  | 1319 | 1327  | 1321 | 372  |
| 175° | 1373 | 1370  | 1368 | 1376  | 1369 | 130  |
| 180° | 1376 | 1376  | 1376 | 1376  | 1376 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 821.7 | 821.7 | 821.7 | 821.7 | 821.7 |
| 2.5°   | 825.5 | 821.7 | 813.6 | 821.0 | 819.5 |
| 5°     | 821.7 | 818.0 | 808.3 | 815.0 | 812.8 |
| 7.5°   | 815.0 | 810.6 | 800.2 | 803.1 | 799.4 |
| 10°    | 806.1 | 800.9 | 786.0 | 783.8 | 779.3 |
| 12.5°  | 795.0 | 788.3 | 768.2 | 763.7 | 755.5 |
| 15°    | 781.6 | 773.4 | 748.1 | 734.0 | 726.5 |
| 17.5°  | 766.0 | 754.1 | 722.8 | 706.5 | 694.6 |
| 20°    | 748.1 | 733.2 | 696.1 | 677.5 | 661.1 |
| 22.5°  | 728.8 | 711.7 | 668.5 | 643.3 | 632.1 |
| 25°    | 709.4 | 685.6 | 636.6 | 606.1 | 594.9 |
| 27.5°  | 686.4 | 661.1 | 606.8 | 571.9 | 554.8 |
| 30°    | 661.8 | 633.6 | 574.1 | 536.2 | 516.1 |
| 32.5°  | 638.1 | 603.8 | 542.9 | 498.2 | 479.7 |
| 35°    | 611.3 | 573.4 | 507.9 | 461.1 | 444.7 |
| 37.5°  | 585.3 | 544.4 | 475.2 | 423.9 | 405.3 |
| 40°    | 557.7 | 513.1 | 441.0 | 388.2 | 368.9 |
| 42.5°  | 529.5 | 481.9 | 406.8 | 351.7 | 333.2 |
| 45°    | 499.7 | 449.9 | 371.8 | 319.0 | 301.2 |
| 47.5°  | 471.5 | 418.7 | 338.4 | 285.6 | 269.2 |
| 50°    | 440.2 | 387.4 | 305.6 | 254.3 | 238.7 |
| 52.5°  | 409.8 | 354.0 | 274.4 | 225.3 | 211.2 |
| 55°    | 380.0 | 322.0 | 241.7 | 197.1 | 182.9 |
| 57.5°  | 349.5 | 290.0 | 212.7 | 171.0 | 159.1 |
| 60°    | 318.3 | 258.8 | 182.2 | 144.3 | 132.4 |
| 62.5°  | 287.8 | 228.3 | 156.2 | 120.5 | 114.5 |
| 65°    | 256.6 | 196.3 | 129.4 | 104.1 | 101.9 |
| 67.5°  | 226.8 | 166.6 | 104.1 | 91.5  | 89.2  |
| 70°    | 195.6 | 137.6 | 86.3  | 78.8  | 75.9  |
| 72.5°  | 165.8 | 110.8 | 72.1  | 66.2  | 64.7  |
| 75°    | 136.8 | 84.8  | 59.5  | 54.3  | 53.5  |
| 77.5°  | 107.8 | 60.2  | 46.8  | 43.9  | 42.4  |
| 80°    | 81.1  | 43.1  | 35.7  | 32.7  | 32.7  |
| 82.5°  | 56.5  | 29.0  | 24.5  | 23.1  | 23.1  |
| 85°    | 32.0  | 16.4  | 14.1  | 14.1  | 14.1  |
| 87.5°  | 11.9  | 5.9   | 5.9   | 5.2   | 5.2   |
| 90°    | 1.2   | 15.1  | 40.6  | 38.3  | 39.5  |
| 92.5°  | 25.5  | 34.8  | 36.0  | 37.1  | 37.1  |
| 95°    | 60.4  | 72.0  | 74.3  | 74.3  | 72.0  |
| 97.5°  | 101.0 | 111.4 | 116.1 | 116.1 | 116.1 |
| 100°   | 147.4 | 156.7 | 160.2 | 160.2 | 159.0 |
| 102.5° | 196.2 | 203.2 | 207.8 | 209.0 | 207.8 |
| 105°   | 249.6 | 253.1 | 255.4 | 257.7 | 257.7 |
| 107.5° | 303.0 | 307.6 | 307.6 | 308.8 | 303.0 |
| 110°   | 354.1 | 361.0 | 361.0 | 361.0 | 357.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 409.8  | 416.8  | 415.6  | 412.1  | 409.8  |
| 115°   | 464.4  | 471.3  | 469.0  | 467.8  | 464.4  |
| 117.5° | 518.9  | 528.2  | 522.4  | 518.9  | 515.4  |
| 120°   | 573.5  | 582.8  | 573.5  | 573.5  | 570.0  |
| 122.5° | 623.4  | 635.0  | 629.2  | 625.7  | 623.4  |
| 125°   | 675.6  | 686.1  | 682.6  | 679.1  | 678.0  |
| 127.5° | 726.7  | 739.5  | 734.8  | 730.2  | 726.7  |
| 130°   | 774.3  | 789.4  | 787.1  | 784.8  | 780.1  |
| 132.5° | 827.7  | 839.3  | 840.5  | 834.7  | 831.2  |
| 135°   | 874.2  | 886.9  | 889.2  | 888.1  | 884.6  |
| 137.5° | 925.2  | 935.7  | 938.0  | 936.8  | 932.2  |
| 140°   | 970.5  | 981.0  | 986.8  | 986.8  | 982.1  |
| 142.5° | 1016.9 | 1027.4 | 1030.9 | 1032.0 | 1027.4 |
| 145°   | 1061.1 | 1069.2 | 1076.1 | 1077.3 | 1072.7 |
| 147.5° | 1100.5 | 1111.0 | 1115.6 | 1117.9 | 1113.3 |
| 150°   | 1141.2 | 1148.1 | 1152.8 | 1156.3 | 1152.8 |
| 152.5° | 1177.1 | 1184.1 | 1189.9 | 1194.6 | 1189.9 |
| 155°   | 1213.1 | 1216.6 | 1220.1 | 1225.9 | 1222.4 |
| 157.5° | 1244.5 | 1246.8 | 1249.1 | 1257.2 | 1251.4 |
| 160°   | 1272.3 | 1274.7 | 1275.8 | 1282.8 | 1278.1 |
| 162.5° | 1297.9 | 1297.9 | 1299.0 | 1307.2 | 1301.4 |
| 165°   | 1319.9 | 1318.8 | 1318.8 | 1326.9 | 1321.1 |
| 167.5° | 1339.7 | 1336.2 | 1336.2 | 1344.3 | 1338.5 |
| 170°   | 1354.8 | 1351.3 | 1350.1 | 1358.2 | 1351.3 |
| 172.5° | 1365.2 | 1361.7 | 1360.6 | 1368.7 | 1361.7 |
| 175°   | 1373.3 | 1369.9 | 1367.5 | 1375.7 | 1368.7 |
| 177.5° | 1378.0 | 1374.5 | 1372.2 | 1379.1 | 1372.2 |
| 180°   | 1375.7 | 1375.7 | 1375.7 | 1375.7 | 1375.7 |

(END OF REPORT)