

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: P999441

Luminaire Tested: SA2XXRDIP-B1005D925UB2750-4F0-XX-W2A-F\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P999441  
REPORT IS A COMBINATION OF REPORTS P987992 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-B1005D925UB2750-4F0-XX-W2A-F\_4000K  
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}  
{m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

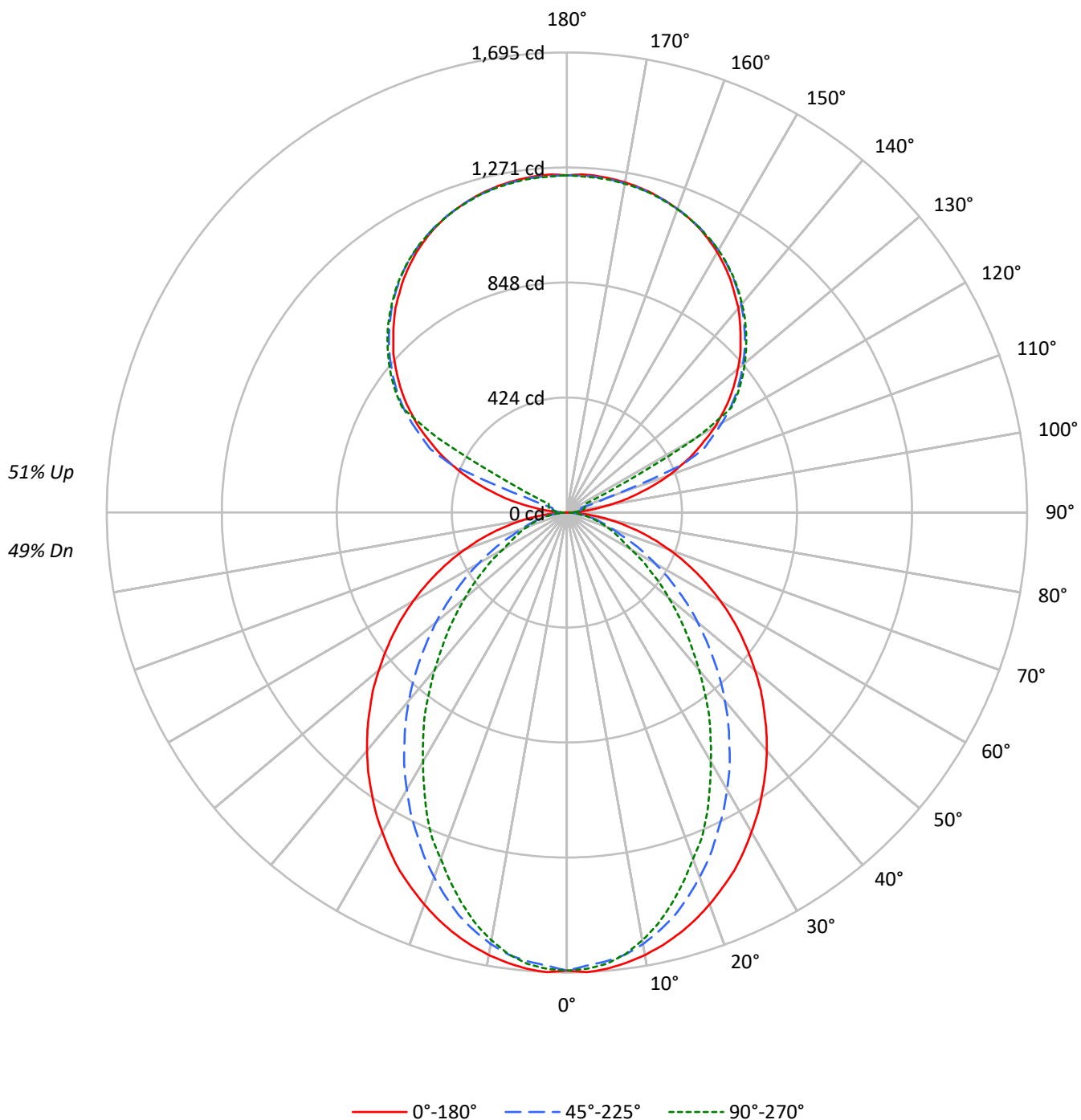
Lumens per Lamp: N/A  
Luminaire Lumens: 7116.0 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 89.8  
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 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 |
| 1   | 98  | 94  | 90  | 87  | 90 | 87 | 83 | 81 | 73 | 71 | 69 | 61 | 59 | 58 | 49 | 48 | 47 |
| 2   | 90  | 82  | 77  | 72  | 82 | 76 | 71 | 67 | 65 | 61 | 58 | 54 | 51 | 49 | 44 | 42 | 41 |
| 3   | 82  | 73  | 66  | 60  | 75 | 68 | 61 | 56 | 57 | 53 | 49 | 48 | 45 | 42 | 39 | 37 | 35 |
| 4   | 75  | 65  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 36 | 33 | 31 |
| 5   | 69  | 58  | 50  | 44  | 64 | 54 | 47 | 42 | 46 | 41 | 37 | 39 | 35 | 32 | 32 | 29 | 27 |
| 6   | 64  | 52  | 44  | 39  | 59 | 49 | 42 | 37 | 42 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 24 |
| 7   | 59  | 47  | 40  | 34  | 55 | 44 | 37 | 32 | 38 | 33 | 29 | 32 | 28 | 25 | 27 | 24 | 22 |
| 8   | 55  | 43  | 35  | 30  | 51 | 40 | 33 | 29 | 35 | 29 | 26 | 30 | 26 | 22 | 25 | 22 | 19 |
| 9   | 51  | 39  | 32  | 27  | 47 | 37 | 30 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 23 | 20 | 18 |
| 10  | 48  | 36  | 29  | 24  | 44 | 34 | 28 | 23 | 30 | 24 | 21 | 25 | 21 | 18 | 21 | 18 | 16 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 26715 | 26715 | 26715 |
| 5°  | 26759 | 25416 | 25228 |
| 10° | 26494 | 24106 | 23311 |
| 15° | 26130 | 22559 | 21124 |
| 20° | 25649 | 20799 | 18839 |
| 25° | 25156 | 18994 | 16748 |
| 30° | 24492 | 17236 | 14463 |
| 35° | 23844 | 15464 | 12501 |
| 40° | 23184 | 13722 | 10481 |
| 45° | 22417 | 11925 | 8719  |
| 50° | 21623 | 10191 | 7098  |
| 55° | 20797 | 8460  | 5635  |
| 60° | 19836 | 6765  | 4264  |
| 65° | 18731 | 5159  | 3465  |
| 70° | 17396 | 3742  | 2756  |
| 75° | 15719 | 2854  | 2105  |
| 80° | 13293 | 1932  | 1413  |
| 85° | 9281  | 884   | 682   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22417 cd/sqm

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CATALOG NUMBER: SA2XXRDIP-B1005D925UB2750-4F0-XX-W2A-F\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 158.2  | 2.2       |
| 10°-20°   | 434.2  | 6.1       |
| 20°-30°   | 609.6  | 8.6       |
| 30°-40°   | 664.5  | 9.3       |
| 40°-50°   | 610.8  | 8.6       |
| 50°-60°   | 479.7  | 6.7       |
| 60°-70°   | 312.2  | 4.4       |
| 70°-80°   | 160.7  | 2.3       |
| 80°-90°   | 43.2   | 0.6       |
| 90°-100°  | 41.0   | 0.6       |
| 100°-110° | 152.7  | 2.1       |
| 110°-120° | 405.1  | 5.7       |
| 120°-130° | 671.9  | 9.4       |
| 130°-140° | 713.7  | 10.0      |
| 140°-150° | 663.3  | 9.3       |
| 150°-160° | 533.3  | 7.5       |
| 160°-170° | 343.6  | 4.8       |
| 170°-180° | 118.3  | 1.7       |
| 0°-30°    | 1202.0 | 16.9      |
| 0°-40°    | 1866.6 | 26.2      |
| 0°-60°    | 2957.0 | 41.6      |
| 0°-90°    | 3473.2 | 48.8      |
| 90°-120°  | 598.8  | 8.4       |
| 90°-150°  | 2647.7 | 37.2      |
| 90°-180°  | 3643.0 | 51.2      |
| 0°-180°   | 7116.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1688 | 1688  | 1688 | 1688  | 1688 |      |
| 5°   | 1688 | 1680  | 1660 | 1674  | 1669 | 160  |
| 15°  | 1605 | 1588  | 1536 | 1508  | 1492 | 452  |
| 25°  | 1457 | 1408  | 1307 | 1245  | 1222 | 670  |
| 35°  | 1256 | 1178  | 1043 | 947   | 913  | 786  |
| 45°  | 1026 | 924   | 764  | 655   | 619  | 793  |
| 55°  | 780  | 661   | 496  | 405   | 376  | 697  |
| 65°  | 527  | 403   | 266  | 214   | 209  | 522  |
| 75°  | 281  | 174   | 122  | 112   | 110  | 297  |
| 85°  | 66   | 34    | 29   | 29    | 29   | 75   |
| 90°  | 1    | 11    | 18   | 22    | 24   | 7    |
| 95°  | 58   | 29    | 35   | 40    | 39   | 69   |
| 105° | 273  | 300   | 55   | 65    | 68   | 292  |
| 115° | 517  | 532   | 555  | 138   | 74   | 509  |
| 125° | 731  | 743   | 760  | 766   | 769  | 652  |
| 135° | 904  | 919   | 927  | 936   | 934  | 699  |
| 145° | 1049 | 1048  | 1064 | 1070  | 1066 | 656  |
| 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 |      |

TEST NUMBER: P999441

CATALOG NUMBER: SA2XXRDIP-B1005D925UB2750-4F0-XX-W2A-F\_4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1687.7 | 1687.7 | 1687.7 | 1687.7 | 1687.7 |
| 2.5°   | 1695.4 | 1687.7 | 1670.9 | 1686.2 | 1683.1 |
| 5°     | 1687.7 | 1680.1 | 1660.2 | 1674.0 | 1669.4 |
| 7.5°   | 1674.0 | 1664.8 | 1643.4 | 1649.5 | 1641.9 |
| 10°    | 1655.6 | 1644.9 | 1614.4 | 1609.8 | 1600.7 |
| 12.5°  | 1632.7 | 1619.0 | 1577.7 | 1568.6 | 1551.8 |
| 15°    | 1605.2 | 1588.4 | 1536.5 | 1507.5 | 1492.2 |
| 17.5°  | 1573.2 | 1548.7 | 1484.6 | 1451.0 | 1426.5 |
| 20°    | 1536.5 | 1506.0 | 1429.6 | 1391.4 | 1357.8 |
| 22.5°  | 1496.8 | 1461.7 | 1373.1 | 1321.2 | 1298.2 |
| 25°    | 1457.1 | 1408.2 | 1307.4 | 1244.8 | 1221.9 |
| 27.5°  | 1409.7 | 1357.8 | 1246.3 | 1174.5 | 1139.4 |
| 30°    | 1359.3 | 1301.3 | 1179.1 | 1101.2 | 1060.0 |
| 32.5°  | 1310.5 | 1240.2 | 1115.0 | 1023.3 | 985.1  |
| 35°    | 1255.5 | 1177.6 | 1043.2 | 947.0  | 913.4  |
| 37.5°  | 1202.0 | 1118.0 | 976.0  | 870.6  | 832.4  |
| 40°    | 1145.5 | 1053.9 | 905.7  | 797.3  | 757.6  |
| 42.5°  | 1087.5 | 989.7  | 835.5  | 722.4  | 684.2  |
| 45°    | 1026.4 | 924.0  | 763.7  | 655.2  | 618.6  |
| 47.5°  | 968.3  | 859.9  | 694.9  | 586.5  | 552.9  |
| 50°    | 904.2  | 795.7  | 627.7  | 522.4  | 490.3  |
| 52.5°  | 841.6  | 727.0  | 563.6  | 462.8  | 433.8  |
| 55°    | 780.5  | 661.3  | 496.4  | 404.7  | 375.7  |
| 57.5°  | 717.9  | 595.7  | 436.8  | 351.3  | 326.9  |
| 60°    | 653.7  | 531.5  | 374.2  | 296.3  | 271.9  |
| 62.5°  | 591.1  | 468.9  | 320.7  | 247.4  | 235.2  |
| 65°    | 526.9  | 403.2  | 265.8  | 213.8  | 209.2  |
| 67.5°  | 465.8  | 342.1  | 213.8  | 187.9  | 183.3  |
| 70°    | 401.7  | 282.6  | 177.2  | 161.9  | 155.8  |
| 72.5°  | 340.6  | 227.6  | 148.2  | 135.9  | 132.9  |
| 75°    | 281.0  | 174.1  | 122.2  | 111.5  | 110.0  |
| 77.5°  | 221.5  | 123.7  | 96.2   | 90.1   | 87.1   |
| 80°    | 166.5  | 88.6   | 73.3   | 67.2   | 67.2   |
| 82.5°  | 116.1  | 59.6   | 50.4   | 47.3   | 47.3   |
| 85°    | 65.7   | 33.6   | 29.0   | 29.0   | 29.0   |
| 87.5°  | 24.4   | 12.2   | 12.2   | 10.7   | 10.7   |
| 90°    | 0.9    | 10.8   | 18.0   | 22.5   | 24.3   |
| 92.5°  | 22.5   | 18.9   | 21.6   | 23.4   | 24.3   |
| 95°    | 58.4   | 28.8   | 35.1   | 39.6   | 38.7   |
| 97.5°  | 105.2  | 31.5   | 45.9   | 48.6   | 49.5   |
| 100°   | 159.1  | 36.0   | 51.2   | 58.4   | 60.2   |
| 102.5° | 218.5  | 216.7  | 53.0   | 62.9   | 65.6   |
| 105°   | 273.3  | 300.3  | 54.8   | 64.7   | 68.3   |
| 107.5° | 337.2  | 359.6  | 56.6   | 66.5   | 70.1   |
| 110°   | 398.3  | 417.2  | 157.3  | 67.4   | 71.0   |



TEST NUMBER: P999441

CATALOG NUMBER: SA2XXRDIP-B1005D925UB2750-4F0-XX-W2A-F\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 455.9  | 472.0  | 456.8  | 69.2   | 71.9   |
| 115°   | 517.0  | 532.3  | 554.8  | 138.5  | 73.7   |
| 117.5° | 570.0  | 588.0  | 603.3  | 474.7  | 239.2  |
| 120°   | 629.4  | 642.9  | 659.1  | 669.8  | 548.5  |
| 122.5° | 679.7  | 694.1  | 712.1  | 717.5  | 718.4  |
| 125°   | 731.0  | 742.7  | 759.8  | 766.0  | 768.7  |
| 127.5° | 777.7  | 790.3  | 803.8  | 812.8  | 813.7  |
| 130°   | 821.8  | 836.2  | 846.1  | 856.0  | 855.1  |
| 132.5° | 866.8  | 878.4  | 888.3  | 896.4  | 895.5  |
| 135°   | 904.5  | 918.9  | 927.0  | 936.0  | 934.2  |
| 137.5° | 944.1  | 954.9  | 963.9  | 972.8  | 970.1  |
| 140°   | 982.7  | 989.9  | 999.8  | 1007.9 | 1003.4 |
| 142.5° | 1015.1 | 1021.4 | 1033.1 | 1040.3 | 1035.8 |
| 145°   | 1049.3 | 1048.4 | 1063.7 | 1070.0 | 1065.5 |
| 147.5° | 1078.9 | 1076.2 | 1091.5 | 1096.0 | 1092.4 |
| 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)