

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: P1010467

Luminaire Tested: S123DIP-B1000D805UB2750-4F0-XX-W2A-F\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010467  
REPORT IS A COMBINATION OF REPORTS P989281 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B1000D805UB2750-4F0-XX-W2A-F\_4000K  
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

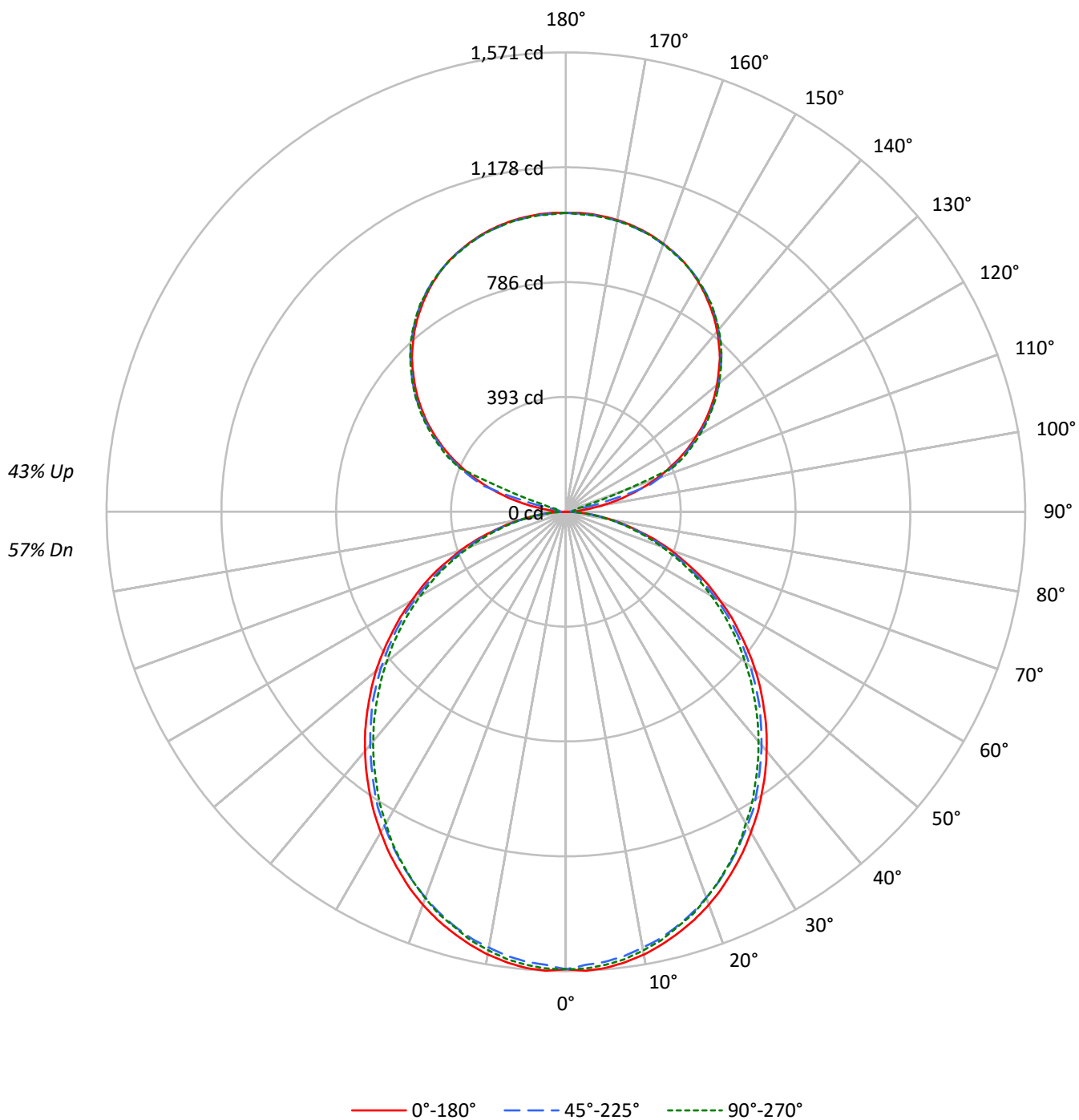
Lumens per Lamp: N/A  
Luminaire Lumens: 7189.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 67.9  
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   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 62 | 62 | 62 |
| 1   | 99  | 95  | 91  | 87  | 92  | 88  | 85  | 82  | 76 | 74 | 71 | 65 | 63 | 62 | 55 | 54 | 52 |
| 2   | 90  | 83  | 77  | 71  | 84  | 77  | 72  | 67  | 67 | 63 | 59 | 57 | 54 | 51 | 48 | 46 | 44 |
| 3   | 82  | 73  | 65  | 59  | 76  | 68  | 61  | 56  | 59 | 54 | 50 | 51 | 47 | 43 | 43 | 40 | 38 |
| 4   | 75  | 64  | 56  | 50  | 70  | 60  | 53  | 48  | 52 | 47 | 42 | 45 | 41 | 37 | 38 | 35 | 32 |
| 5   | 69  | 57  | 49  | 43  | 64  | 54  | 46  | 41  | 47 | 41 | 37 | 40 | 36 | 32 | 34 | 31 | 28 |
| 6   | 64  | 52  | 43  | 37  | 59  | 48  | 41  | 36  | 42 | 36 | 32 | 37 | 32 | 28 | 31 | 28 | 25 |
| 7   | 59  | 47  | 38  | 33  | 55  | 44  | 36  | 31  | 38 | 32 | 28 | 33 | 29 | 25 | 29 | 25 | 22 |
| 8   | 55  | 42  | 34  | 29  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 30 | 26 | 22 | 26 | 23 | 20 |
| 9   | 51  | 39  | 31  | 26  | 47  | 36  | 29  | 25  | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 21 | 18 |
| 10  | 48  | 35  | 28  | 23  | 44  | 33  | 27  | 22  | 30 | 24 | 20 | 26 | 21 | 18 | 22 | 19 | 16 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16841 | 16841 | 16841 |
| 5°  | 16884 | 16260 | 16236 |
| 10° | 16733 | 15710 | 15549 |
| 15° | 16500 | 15138 | 14799 |
| 20° | 16234 | 14502 | 14058 |
| 25° | 15889 | 13832 | 13264 |
| 30° | 15511 | 13138 | 12430 |
| 35° | 15115 | 12429 | 11601 |
| 40° | 14701 | 11685 | 10784 |
| 45° | 14245 | 10959 | 9933  |
| 50° | 13783 | 10151 | 9078  |
| 55° | 13187 | 9310  | 8211  |
| 60° | 12575 | 8380  | 7288  |
| 65° | 12000 | 7375  | 6326  |
| 70° | 11173 | 6261  | 5204  |
| 75° | 9978  | 4958  | 4041  |
| 80° | 8616  | 3484  | 2858  |
| 85° | 6724  | 1874  | 1432  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14245 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 147.5  | 2.1       |
| 10°-20°   | 416.5  | 5.8       |
| 20°-30°   | 615.1  | 8.6       |
| 30°-40°   | 718.4  | 10.0      |
| 40°-50°   | 722.2  | 10.0      |
| 50°-60°   | 634.4  | 8.8       |
| 60°-70°   | 472.5  | 6.6       |
| 70°-80°   | 268.9  | 3.7       |
| 80°-90°   | 78.5   | 1.1       |
| 90°-100°  | 36.0   | 0.5       |
| 100°-110° | 174.2  | 2.4       |
| 110°-120° | 426.9  | 5.9       |
| 120°-130° | 541.9  | 7.5       |
| 130°-140° | 578.9  | 8.1       |
| 140°-150° | 541.4  | 7.5       |
| 150°-160° | 436.7  | 6.1       |
| 160°-170° | 281.8  | 3.9       |
| 170°-180° | 97.1   | 1.4       |
| 0°-30°    | 1179.1 | 16.4      |
| 0°-40°    | 1897.5 | 26.4      |
| 0°-60°    | 3254.2 | 45.3      |
| 0°-90°    | 4074.0 | 56.7      |
| 90°-120°  | 637.1  | 8.9       |
| 90°-150°  | 2299.4 | 32.0      |
| 90°-180°  | 3115.0 | 43.3      |
| 0°-180°   | 7189.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1565 | 1565  | 1565 | 1565  | 1565 |      |
| 5°   | 1566 | 1559  | 1544 | 1558  | 1555 | 149  |
| 15°  | 1491 | 1485  | 1468 | 1478  | 1470 | 420  |
| 25°  | 1353 | 1345  | 1328 | 1329  | 1325 | 623  |
| 35°  | 1170 | 1162  | 1145 | 1137  | 1130 | 732  |
| 45°  | 959  | 954   | 936  | 920   | 914  | 741  |
| 55°  | 728  | 726   | 709  | 694   | 688  | 652  |
| 65°  | 496  | 490   | 476  | 466   | 461  | 490  |
| 75°  | 262  | 257   | 253  | 246   | 242  | 280  |
| 85°  | 70   | 67    | 67   | 65    | 65   | 75   |
| 90°  | 1    | 8     | 18   | 21    | 23   | 7    |
| 95°  | 46   | 15    | 24   | 29    | 29   | 55   |
| 105° | 226  | 235   | 166  | 32    | 33   | 240  |
| 115° | 424  | 429   | 436  | 443   | 446  | 419  |
| 125° | 598  | 604   | 607  | 609   | 610  | 534  |
| 135° | 745  | 749   | 752  | 755   | 752  | 573  |
| 145° | 859  | 865   | 866  | 868   | 868  | 538  |
| 155° | 947  | 945   | 946  | 950   | 945  | 436  |
| 165° | 998  | 996   | 995  | 1001  | 996  | 282  |
| 175° | 1022 | 1018  | 1019 | 1024  | 1018 | 97   |
| 180° | 1022 | 1022  | 1022 | 1022  | 1022 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1564.6 | 1564.6 | 1564.6 | 1564.6 | 1564.6 |
| 2.5°   | 1571.3 | 1566.0 | 1551.2 | 1564.6 | 1563.3 |
| 5°     | 1566.0 | 1559.2 | 1544.4 | 1557.9 | 1555.2 |
| 7.5°   | 1553.9 | 1547.1 | 1532.3 | 1544.4 | 1543.1 |
| 10°    | 1537.7 | 1531.0 | 1513.5 | 1525.6 | 1522.9 |
| 12.5°  | 1516.2 | 1510.8 | 1494.7 | 1502.7 | 1501.4 |
| 15°    | 1490.6 | 1485.2 | 1467.8 | 1478.5 | 1470.4 |
| 17.5°  | 1462.4 | 1455.6 | 1438.2 | 1446.2 | 1443.5 |
| 20°    | 1430.1 | 1422.0 | 1404.5 | 1409.9 | 1405.9 |
| 22.5°  | 1393.8 | 1385.7 | 1368.2 | 1372.2 | 1366.9 |
| 25°    | 1353.4 | 1345.3 | 1327.8 | 1329.2 | 1325.1 |
| 27.5°  | 1311.7 | 1303.6 | 1284.8 | 1286.1 | 1282.1 |
| 30°    | 1266.0 | 1259.2 | 1240.4 | 1240.4 | 1231.0 |
| 32.5°  | 1220.2 | 1210.8 | 1197.3 | 1187.9 | 1183.9 |
| 35°    | 1170.4 | 1162.4 | 1144.9 | 1136.8 | 1130.1 |
| 37.5°  | 1120.7 | 1109.9 | 1092.4 | 1083.0 | 1079.0 |
| 40°    | 1068.2 | 1060.1 | 1041.3 | 1030.5 | 1025.1 |
| 42.5°  | 1015.7 | 1006.3 | 987.5  | 976.7  | 971.3  |
| 45°    | 959.2  | 953.8  | 936.3  | 920.2  | 913.5  |
| 47.5°  | 904.1  | 896.0  | 879.8  | 863.7  | 858.3  |
| 50°    | 847.6  | 840.8  | 823.3  | 808.5  | 800.5  |
| 52.5°  | 788.4  | 784.3  | 765.5  | 753.4  | 745.3  |
| 55°    | 727.8  | 726.5  | 709.0  | 694.2  | 687.5  |
| 57.5°  | 671.3  | 665.9  | 652.5  | 639.0  | 631.0  |
| 60°    | 609.4  | 608.1  | 591.9  | 579.8  | 573.1  |
| 62.5°  | 554.3  | 550.2  | 534.1  | 522.0  | 518.0  |
| 65°    | 496.4  | 489.7  | 476.2  | 465.5  | 461.4  |
| 67.5°  | 434.5  | 429.2  | 418.4  | 409.0  | 403.6  |
| 70°    | 379.4  | 371.3  | 363.2  | 353.8  | 347.1  |
| 72.5°  | 321.5  | 316.2  | 306.7  | 298.7  | 296.0  |
| 75°    | 262.3  | 257.0  | 252.9  | 246.2  | 242.2  |
| 77.5°  | 209.9  | 207.2  | 201.8  | 196.4  | 196.4  |
| 80°    | 158.7  | 154.7  | 152.0  | 150.7  | 150.7  |
| 82.5°  | 109.0  | 109.0  | 109.0  | 106.3  | 104.9  |
| 85°    | 70.0   | 67.3   | 67.3   | 64.6   | 64.6   |
| 87.5°  | 35.0   | 30.9   | 29.6   | 28.3   | 28.3   |
| 90°    | 0.8    | 8.4    | 18.2   | 21.3   | 22.8   |
| 92.5°  | 17.5   | 12.9   | 19.7   | 25.1   | 25.8   |
| 95°    | 46.3   | 15.2   | 23.5   | 28.8   | 28.8   |
| 97.5°  | 84.3   | 63.0   | 24.3   | 30.4   | 31.1   |
| 100°   | 128.3  | 143.5  | 25.1   | 31.1   | 31.9   |
| 102.5° | 178.4  | 188.3  | 56.2   | 31.1   | 32.6   |
| 105°   | 226.2  | 234.6  | 166.2  | 31.9   | 33.4   |
| 107.5° | 277.1  | 283.9  | 295.3  | 178.4  | 78.9   |
| 110°   | 327.9  | 334.0  | 342.4  | 317.3  | 208.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 376.5  | 381.8  | 390.2  | 397.0  | 395.5  |
| 115°   | 424.3  | 428.9  | 435.7  | 443.3  | 446.4  |
| 117.5° | 471.4  | 476.7  | 480.5  | 486.6  | 487.4  |
| 120°   | 514.7  | 521.5  | 523.8  | 529.9  | 529.9  |
| 122.5° | 558.7  | 564.0  | 567.1  | 570.9  | 571.6  |
| 125°   | 598.2  | 604.3  | 607.3  | 608.8  | 610.3  |
| 127.5° | 637.7  | 643.7  | 647.5  | 649.8  | 648.3  |
| 130°   | 674.1  | 680.2  | 683.2  | 686.2  | 684.7  |
| 132.5° | 709.0  | 715.1  | 717.4  | 720.4  | 718.1  |
| 135°   | 744.7  | 749.2  | 752.3  | 754.6  | 752.3  |
| 137.5° | 775.1  | 781.1  | 782.7  | 786.4  | 784.9  |
| 140°   | 805.4  | 810.0  | 812.3  | 815.3  | 813.8  |
| 142.5° | 833.5  | 838.1  | 840.3  | 842.6  | 840.3  |
| 145°   | 859.3  | 864.6  | 866.2  | 867.7  | 867.7  |
| 147.5° | 884.4  | 888.2  | 889.7  | 891.2  | 887.4  |
| 150°   | 907.1  | 909.4  | 910.9  | 912.5  | 910.2  |
| 152.5° | 927.6  | 928.4  | 929.2  | 932.2  | 928.4  |
| 155°   | 946.6  | 945.1  | 945.9  | 949.7  | 945.1  |
| 157.5° | 961.8  | 961.8  | 961.0  | 965.6  | 959.5  |
| 160°   | 975.5  | 974.7  | 973.9  | 978.5  | 973.2  |
| 162.5° | 988.4  | 986.1  | 985.3  | 990.6  | 986.1  |
| 165°   | 998.2  | 996.0  | 995.2  | 1001.3 | 996.0  |
| 167.5° | 1006.6 | 1003.6 | 1003.6 | 1009.6 | 1003.6 |
| 170°   | 1013.4 | 1010.4 | 1010.4 | 1016.5 | 1010.4 |
| 172.5° | 1018.0 | 1014.2 | 1014.9 | 1021.0 | 1014.2 |
| 175°   | 1021.8 | 1018.0 | 1018.7 | 1024.0 | 1018.0 |
| 177.5° | 1023.3 | 1019.5 | 1020.3 | 1026.3 | 1018.7 |
| 180°   | 1021.8 | 1021.8 | 1021.8 | 1021.8 | 1021.8 |

(END OF REPORT)