

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: P1010765

Luminaire Tested: S123DIP-B775D805UB2750-4F0-XX-W2A-F\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010765  
REPORT IS A COMBINATION OF REPORTS P990479 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B775D805UB2750-4F0-XX-W2A-F\_3000K  
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

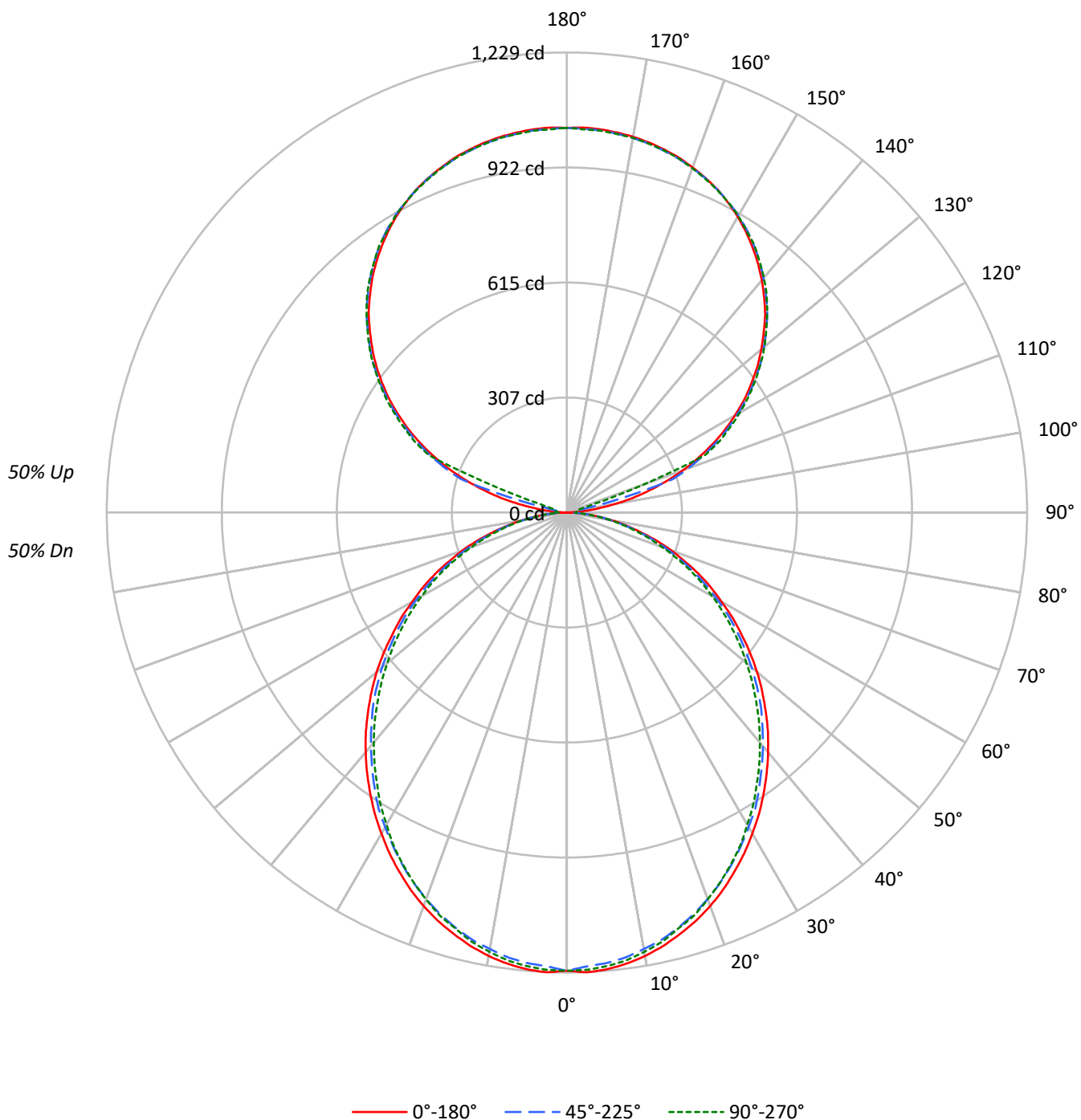
Lumens per Lamp: N/A  
Luminaire Lumens: 6321.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 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 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 69 | 69 | 69 | 57 | 57 | 57 |
| 1   | 98  | 93  | 90  | 86  | 90 | 86 | 83 | 80 | 73 | 71 | 69 | 61 | 59 | 58 | 50 | 49 | 48 |
| 2   | 89  | 82  | 75  | 70  | 82 | 76 | 70 | 66 | 64 | 60 | 57 | 54 | 51 | 48 | 44 | 42 | 40 |
| 3   | 81  | 72  | 64  | 58  | 75 | 66 | 60 | 55 | 57 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 |
| 4   | 74  | 63  | 55  | 49  | 68 | 59 | 52 | 46 | 50 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 29 |
| 5   | 68  | 56  | 48  | 42  | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 34 | 30 | 31 | 28 | 26 |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 |
| 7   | 58  | 46  | 38  | 32  | 53 | 43 | 35 | 30 | 37 | 31 | 27 | 31 | 27 | 23 | 26 | 23 | 20 |
| 8   | 54  | 42  | 34  | 28  | 50 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 24 | 20 | 18 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 29 | 24 | 31 | 25 | 21 | 26 | 22 | 19 | 22 | 19 | 16 |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13177 | 13177 | 13177 |
| 5°  | 13209 | 12722 | 12703 |
| 10° | 13092 | 12292 | 12165 |
| 15° | 12910 | 11844 | 11580 |
| 20° | 12701 | 11347 | 10999 |
| 25° | 12431 | 10822 | 10378 |
| 30° | 12136 | 10279 | 9725  |
| 35° | 11827 | 9725  | 9076  |
| 40° | 11503 | 9142  | 8438  |
| 45° | 11146 | 8575  | 7771  |
| 50° | 10783 | 7943  | 7102  |
| 55° | 10319 | 7284  | 6424  |
| 60° | 9838  | 6557  | 5702  |
| 65° | 9389  | 5771  | 4949  |
| 70° | 8740  | 4899  | 4072  |
| 75° | 7809  | 3879  | 3161  |
| 80° | 6743  | 2725  | 2236  |
| 85° | 5254  | 1465  | 1119  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11146 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.4  | 1.8       |
| 10°-20°   | 325.9  | 5.2       |
| 20°-30°   | 481.3  | 7.6       |
| 30°-40°   | 562.1  | 8.9       |
| 40°-50°   | 565.1  | 8.9       |
| 50°-60°   | 496.4  | 7.9       |
| 60°-70°   | 369.7  | 5.8       |
| 70°-80°   | 210.4  | 3.3       |
| 80°-90°   | 61.9   | 1.0       |
| 90°-100°  | 36.2   | 0.6       |
| 100°-110° | 175.2  | 2.8       |
| 110°-120° | 429.3  | 6.8       |
| 120°-130° | 545.1  | 8.6       |
| 130°-140° | 582.3  | 9.2       |
| 140°-150° | 544.5  | 8.6       |
| 150°-160° | 439.2  | 6.9       |
| 160°-170° | 283.4  | 4.5       |
| 170°-180° | 97.7   | 1.5       |
| 0°-30°    | 922.6  | 14.6      |
| 0°-40°    | 1484.6 | 23.5      |
| 0°-60°    | 2546.1 | 40.3      |
| 0°-90°    | 3188.1 | 50.4      |
| 90°-120°  | 640.8  | 10.1      |
| 90°-150°  | 2312.6 | 36.6      |
| 90°-180°  | 3133.0 | 49.6      |
| 0°-180°   | 6321.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1224 | 1224  | 1224 | 1224  | 1224 |      |
| 5°   | 1225 | 1220  | 1208 | 1219  | 1217 | 116  |
| 15°  | 1166 | 1162  | 1148 | 1157  | 1150 | 329  |
| 25°  | 1059 | 1053  | 1039 | 1040  | 1037 | 488  |
| 35°  | 916  | 910   | 896  | 890   | 884  | 573  |
| 45°  | 750  | 746   | 733  | 720   | 715  | 579  |
| 55°  | 570  | 568   | 555  | 543   | 538  | 510  |
| 65°  | 388  | 383   | 373  | 364   | 361  | 383  |
| 75°  | 205  | 201   | 198  | 193   | 190  | 219  |
| 85°  | 55   | 53    | 53   | 50    | 50   | 59   |
| 90°  | 1    | 8     | 18   | 21    | 23   | 6    |
| 95°  | 47   | 15    | 24   | 29    | 29   | 56   |
| 105° | 228  | 236   | 167  | 32    | 34   | 241  |
| 115° | 427  | 431   | 438  | 446   | 449  | 422  |
| 125° | 602  | 608   | 611  | 612   | 614  | 538  |
| 135° | 749  | 754   | 757  | 759   | 757  | 577  |
| 145° | 864  | 870   | 871  | 873   | 873  | 541  |
| 155° | 952  | 951   | 951  | 955   | 951  | 439  |
| 165° | 1004 | 1002  | 1001 | 1007  | 1002 | 284  |
| 175° | 1028 | 1024  | 1025 | 1030  | 1024 | 98   |
| 180° | 1028 | 1028  | 1028 | 1028  | 1028 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1224.2 | 1224.2 | 1224.2 | 1224.2 | 1224.2 |
| 2.5°   | 1229.4 | 1225.2 | 1213.7 | 1224.2 | 1223.1 |
| 5°     | 1225.2 | 1220.0 | 1208.4 | 1218.9 | 1216.8 |
| 7.5°   | 1215.8 | 1210.5 | 1198.9 | 1208.4 | 1207.3 |
| 10°    | 1203.1 | 1197.9 | 1184.2 | 1193.7 | 1191.5 |
| 12.5°  | 1186.3 | 1182.1 | 1169.4 | 1175.8 | 1174.7 |
| 15°    | 1166.3 | 1162.1 | 1148.4 | 1156.8 | 1150.5 |
| 17.5°  | 1144.2 | 1138.9 | 1125.2 | 1131.6 | 1129.4 |
| 20°    | 1118.9 | 1112.6 | 1098.9 | 1103.1 | 1100.0 |
| 22.5°  | 1090.5 | 1084.2 | 1070.5 | 1073.7 | 1069.4 |
| 25°    | 1058.9 | 1052.6 | 1038.9 | 1040.0 | 1036.8 |
| 27.5°  | 1026.3 | 1020.0 | 1005.2 | 1006.3 | 1003.1 |
| 30°    | 990.5  | 985.2  | 970.5  | 970.5  | 963.1  |
| 32.5°  | 954.7  | 947.3  | 936.8  | 929.5  | 926.3  |
| 35°    | 915.8  | 909.5  | 895.8  | 889.5  | 884.2  |
| 37.5°  | 876.8  | 868.4  | 854.7  | 847.3  | 844.2  |
| 40°    | 835.8  | 829.5  | 814.7  | 806.3  | 802.1  |
| 42.5°  | 794.7  | 787.3  | 772.6  | 764.2  | 760.0  |
| 45°    | 750.5  | 746.3  | 732.6  | 720.0  | 714.7  |
| 47.5°  | 707.4  | 701.0  | 688.4  | 675.8  | 671.6  |
| 50°    | 663.1  | 657.9  | 644.2  | 632.6  | 626.3  |
| 52.5°  | 616.8  | 613.7  | 598.9  | 589.5  | 583.1  |
| 55°    | 569.5  | 568.4  | 554.7  | 543.1  | 537.9  |
| 57.5°  | 525.3  | 521.0  | 510.5  | 500.0  | 493.7  |
| 60°    | 476.8  | 475.8  | 463.1  | 453.7  | 448.4  |
| 62.5°  | 433.7  | 430.5  | 417.9  | 408.4  | 405.3  |
| 65°    | 388.4  | 383.1  | 372.6  | 364.2  | 361.0  |
| 67.5°  | 340.0  | 335.8  | 327.4  | 320.0  | 315.8  |
| 70°    | 296.8  | 290.5  | 284.2  | 276.8  | 271.6  |
| 72.5°  | 251.6  | 247.4  | 240.0  | 233.7  | 231.6  |
| 75°    | 205.3  | 201.0  | 197.9  | 192.6  | 189.5  |
| 77.5°  | 164.2  | 162.1  | 157.9  | 153.7  | 153.7  |
| 80°    | 124.2  | 121.0  | 118.9  | 117.9  | 117.9  |
| 82.5°  | 85.3   | 85.3   | 85.3   | 83.2   | 82.1   |
| 85°    | 54.7   | 52.6   | 52.6   | 50.5   | 50.5   |
| 87.5°  | 27.4   | 24.2   | 23.2   | 22.1   | 22.1   |
| 90°    | 0.8    | 8.4    | 18.3   | 21.4   | 22.9   |
| 92.5°  | 17.6   | 13.0   | 19.9   | 25.2   | 26.0   |
| 95°    | 46.6   | 15.3   | 23.7   | 29.0   | 29.0   |
| 97.5°  | 84.7   | 63.4   | 24.4   | 30.5   | 31.3   |
| 100°   | 129.0  | 144.3  | 25.2   | 31.3   | 32.1   |
| 102.5° | 179.4  | 189.3  | 56.5   | 31.3   | 32.8   |
| 105°   | 227.5  | 235.9  | 167.2  | 32.1   | 33.6   |
| 107.5° | 278.7  | 285.5  | 297.0  | 179.4  | 79.4   |
| 110°   | 329.8  | 335.9  | 344.3  | 319.1  | 210.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 378.7  | 384.0  | 392.4  | 399.3  | 397.8  |
| 115°   | 426.8  | 431.4  | 438.2  | 445.9  | 448.9  |
| 117.5° | 474.1  | 479.5  | 483.3  | 489.4  | 490.2  |
| 120°   | 517.7  | 524.5  | 526.8  | 532.9  | 532.9  |
| 122.5° | 561.9  | 567.3  | 570.3  | 574.2  | 574.9  |
| 125°   | 601.6  | 607.7  | 610.8  | 612.3  | 613.9  |
| 127.5° | 641.3  | 647.4  | 651.3  | 653.6  | 652.0  |
| 130°   | 678.0  | 684.1  | 687.2  | 690.2  | 688.7  |
| 132.5° | 713.1  | 719.2  | 721.5  | 724.6  | 722.3  |
| 135°   | 749.0  | 753.6  | 756.6  | 758.9  | 756.6  |
| 137.5° | 779.5  | 785.6  | 787.2  | 791.0  | 789.5  |
| 140°   | 810.1  | 814.7  | 816.9  | 820.0  | 818.5  |
| 142.5° | 838.3  | 842.9  | 845.2  | 847.5  | 845.2  |
| 145°   | 864.3  | 869.6  | 871.2  | 872.7  | 872.7  |
| 147.5° | 889.5  | 893.3  | 894.8  | 896.4  | 892.5  |
| 150°   | 912.4  | 914.7  | 916.2  | 917.7  | 915.4  |
| 152.5° | 933.0  | 933.8  | 934.5  | 937.6  | 933.8  |
| 155°   | 952.1  | 950.6  | 951.3  | 955.1  | 950.6  |
| 157.5° | 967.4  | 967.4  | 966.6  | 971.2  | 965.1  |
| 160°   | 981.1  | 980.3  | 979.6  | 984.2  | 978.8  |
| 162.5° | 994.1  | 991.8  | 991.0  | 996.4  | 991.8  |
| 165°   | 1004.0 | 1001.7 | 1001.0 | 1007.1 | 1001.7 |
| 167.5° | 1012.4 | 1009.3 | 1009.3 | 1015.5 | 1009.3 |
| 170°   | 1019.3 | 1016.2 | 1016.2 | 1022.3 | 1016.2 |
| 172.5° | 1023.9 | 1020.0 | 1020.8 | 1026.9 | 1020.0 |
| 175°   | 1027.7 | 1023.9 | 1024.6 | 1030.0 | 1023.9 |
| 177.5° | 1029.2 | 1025.4 | 1026.1 | 1032.3 | 1024.6 |
| 180°   | 1027.7 | 1027.7 | 1027.7 | 1027.7 | 1027.7 |

(END OF REPORT)