

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: P1010753

Luminaire Tested: S123DIP-B775D585UB2750-4F0-XX-W2A-F\_5000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010753  
REPORT IS A COMBINATION OF REPORTS P990422 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-B775D585UB2750-4F0-XX-W2A-F\_5000K  
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

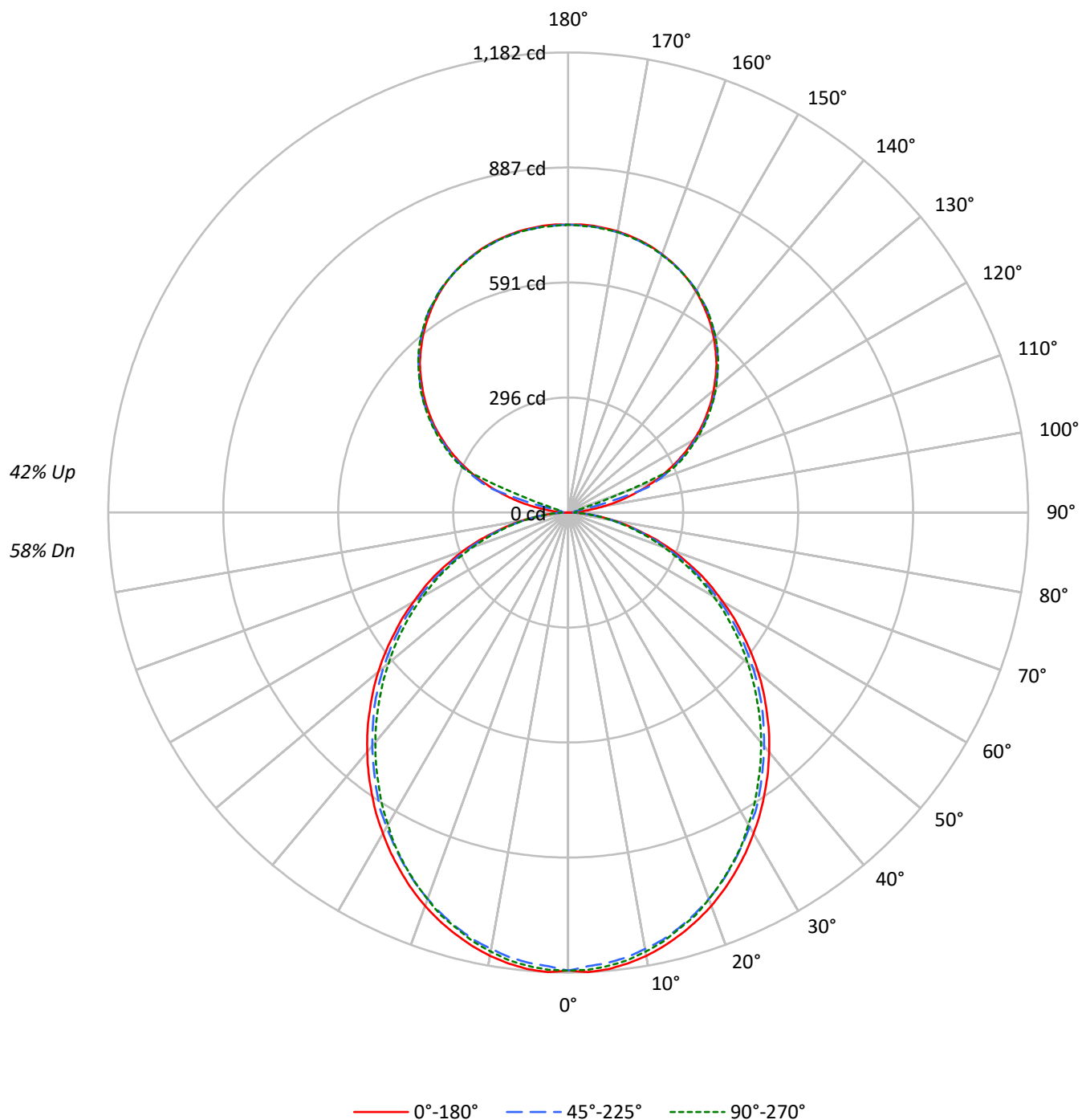
Lumens per Lamp: N/A  
Luminaire Lumens: 5319.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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 | 88 | 88 | 88 | 75 | 75 | 75 | 63 | 63 | 63 |
| 1   | 99  | 95  | 91  | 87  | 92  | 89  | 85  | 82  | 77 | 74 | 72 | 66 | 64 | 62 | 56 | 54 | 53 |
| 2   | 91  | 83  | 77  | 71  | 84  | 77  | 72  | 67  | 67 | 63 | 59 | 58 | 55 | 52 | 49 | 47 | 45 |
| 3   | 83  | 73  | 65  | 59  | 77  | 68  | 62  | 56  | 59 | 54 | 50 | 51 | 47 | 44 | 43 | 41 | 38 |
| 4   | 76  | 65  | 56  | 50  | 70  | 60  | 53  | 48  | 53 | 47 | 43 | 45 | 41 | 38 | 39 | 35 | 33 |
| 5   | 69  | 58  | 49  | 43  | 64  | 54  | 47  | 41  | 47 | 41 | 37 | 41 | 36 | 33 | 35 | 31 | 29 |
| 6   | 64  | 52  | 43  | 37  | 59  | 48  | 41  | 36  | 43 | 37 | 32 | 37 | 32 | 29 | 32 | 28 | 25 |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 31  | 39 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 |
| 8   | 55  | 42  | 35  | 29  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 20 |
| 9   | 51  | 39  | 31  | 26  | 48  | 37  | 30  | 25  | 32 | 27 | 23 | 28 | 24 | 20 | 25 | 21 | 18 |
| 10  | 48  | 36  | 28  | 23  | 45  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 22 | 18 | 23 | 19 | 16 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12668 | 12668 | 12668 |
| 5°  | 12699 | 12231 | 12212 |
| 10° | 12587 | 11818 | 11695 |
| 15° | 12412 | 11387 | 11133 |
| 20° | 12211 | 10909 | 10574 |
| 25° | 11951 | 10404 | 9978  |
| 30° | 11668 | 9882  | 9350  |
| 35° | 11370 | 9349  | 8726  |
| 40° | 11058 | 8790  | 8112  |
| 45° | 10715 | 8244  | 7471  |
| 50° | 10367 | 7636  | 6828  |
| 55° | 9920  | 7003  | 6176  |
| 60° | 9459  | 6305  | 5482  |
| 65° | 9026  | 5548  | 4759  |
| 70° | 8405  | 4710  | 3915  |
| 75° | 7505  | 3730  | 3040  |
| 80° | 6482  | 2622  | 2149  |
| 85° | 5052  | 1409  | 1077  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10715 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.0  | 2.1       |
| 10°-20°   | 313.3  | 5.9       |
| 20°-30°   | 462.7  | 8.7       |
| 30°-40°   | 540.4  | 10.2      |
| 40°-50°   | 543.3  | 10.2      |
| 50°-60°   | 477.2  | 9.0       |
| 60°-70°   | 355.4  | 6.7       |
| 70°-80°   | 202.3  | 3.8       |
| 80°-90°   | 59.0   | 1.1       |
| 90°-100°  | 26.1   | 0.5       |
| 100°-110° | 126.1  | 2.4       |
| 110°-120° | 309.0  | 5.8       |
| 120°-130° | 392.2  | 7.4       |
| 130°-140° | 419.0  | 7.9       |
| 140°-150° | 391.8  | 7.4       |
| 150°-160° | 316.0  | 5.9       |
| 160°-170° | 204.0  | 3.8       |
| 170°-180° | 70.3   | 1.3       |
| 0°-30°    | 886.9  | 16.7      |
| 0°-40°    | 1427.3 | 26.8      |
| 0°-60°    | 2447.8 | 46.0      |
| 0°-90°    | 3064.5 | 57.6      |
| 90°-120°  | 461.1  | 8.7       |
| 90°-150°  | 1664.2 | 31.3      |
| 90°-180°  | 2255.0 | 42.4      |
| 0°-180°   | 5319.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1177 | 1177  | 1177 | 1177  | 1177 |      |
| 5°   | 1178 | 1173  | 1162 | 1172  | 1170 | 112  |
| 15°  | 1121 | 1117  | 1104 | 1112  | 1106 | 316  |
| 25°  | 1018 | 1012  | 999  | 1000  | 997  | 469  |
| 35°  | 880  | 874   | 861  | 855   | 850  | 551  |
| 45°  | 722  | 718   | 704  | 692   | 687  | 557  |
| 55°  | 548  | 546   | 533  | 522   | 517  | 490  |
| 65°  | 373  | 368   | 358  | 350   | 347  | 368  |
| 75°  | 197  | 193   | 190  | 185   | 182  | 211  |
| 85°  | 53   | 51    | 51   | 49    | 49   | 56   |
| 90°  | 0    | 6     | 13   | 15    | 16   | 5    |
| 95°  | 34   | 11    | 17   | 21    | 21   | 40   |
| 105° | 164  | 170   | 120  | 23    | 24   | 174  |
| 115° | 307  | 310   | 315  | 321   | 323  | 303  |
| 125° | 433  | 437   | 440  | 441   | 442  | 387  |
| 135° | 539  | 542   | 544  | 546   | 544  | 415  |
| 145° | 622  | 626   | 627  | 628   | 628  | 389  |
| 155° | 685  | 684   | 685  | 687   | 684  | 316  |
| 165° | 722  | 721   | 720  | 725   | 721  | 204  |
| 175° | 740  | 737   | 737  | 741   | 737  | 70   |
| 180° | 740  | 740   | 740  | 740   | 740  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1176.9 | 1176.9 | 1176.9 | 1176.9 | 1176.9 |
| 2.5°   | 1182.0 | 1177.9 | 1166.8 | 1176.9 | 1175.9 |
| 5°     | 1177.9 | 1172.9 | 1161.7 | 1171.9 | 1169.8 |
| 7.5°   | 1168.8 | 1163.8 | 1152.6 | 1161.7 | 1160.7 |
| 10°    | 1156.7 | 1151.6 | 1138.5 | 1147.6 | 1145.5 |
| 12.5°  | 1140.5 | 1136.4 | 1124.3 | 1130.4 | 1129.4 |
| 15°    | 1121.3 | 1117.2 | 1104.1 | 1112.2 | 1106.1 |
| 17.5°  | 1100.0 | 1095.0 | 1081.8 | 1087.9 | 1085.8 |
| 20°    | 1075.7 | 1069.7 | 1056.5 | 1060.5 | 1057.5 |
| 22.5°  | 1048.4 | 1042.3 | 1029.2 | 1032.2 | 1028.2 |
| 25°    | 1018.0 | 1012.0 | 998.8  | 999.8  | 996.8  |
| 27.5°  | 986.7  | 980.6  | 966.4  | 967.4  | 964.4  |
| 30°    | 952.3  | 947.2  | 933.0  | 933.0  | 926.0  |
| 32.5°  | 917.9  | 910.8  | 900.7  | 893.6  | 890.5  |
| 35°    | 880.4  | 874.3  | 861.2  | 855.1  | 850.1  |
| 37.5°  | 843.0  | 834.9  | 821.7  | 814.6  | 811.6  |
| 40°    | 803.5  | 797.4  | 783.3  | 775.2  | 771.1  |
| 42.5°  | 764.0  | 757.0  | 742.8  | 734.7  | 730.6  |
| 45°    | 721.5  | 717.5  | 704.3  | 692.2  | 687.1  |
| 47.5°  | 680.0  | 674.0  | 661.8  | 649.7  | 645.6  |
| 50°    | 637.5  | 632.5  | 619.3  | 608.2  | 602.1  |
| 52.5°  | 593.0  | 590.0  | 575.8  | 566.7  | 560.6  |
| 55°    | 547.5  | 546.5  | 533.3  | 522.2  | 517.1  |
| 57.5°  | 505.0  | 500.9  | 490.8  | 480.7  | 474.6  |
| 60°    | 458.4  | 457.4  | 445.3  | 436.2  | 431.1  |
| 62.5°  | 416.9  | 413.9  | 401.8  | 392.6  | 389.6  |
| 65°    | 373.4  | 368.4  | 358.2  | 350.1  | 347.1  |
| 67.5°  | 326.9  | 322.8  | 314.7  | 307.6  | 303.6  |
| 70°    | 285.4  | 279.3  | 273.2  | 266.1  | 261.1  |
| 72.5°  | 241.9  | 237.8  | 230.7  | 224.7  | 222.6  |
| 75°    | 197.3  | 193.3  | 190.3  | 185.2  | 182.2  |
| 77.5°  | 157.9  | 155.8  | 151.8  | 147.7  | 147.7  |
| 80°    | 119.4  | 116.4  | 114.4  | 113.3  | 113.3  |
| 82.5°  | 82.0   | 82.0   | 82.0   | 79.9   | 78.9   |
| 85°    | 52.6   | 50.6   | 50.6   | 48.6   | 48.6   |
| 87.5°  | 26.3   | 23.3   | 22.3   | 21.3   | 21.3   |
| 90°    | 0.5    | 6.0    | 13.2   | 15.4   | 16.5   |
| 92.5°  | 12.6   | 9.3    | 14.3   | 18.1   | 18.7   |
| 95°    | 33.5   | 11.0   | 17.0   | 20.9   | 20.9   |
| 97.5°  | 61.0   | 45.6   | 17.6   | 22.0   | 22.5   |
| 100°   | 92.9   | 103.8  | 18.1   | 22.5   | 23.1   |
| 102.5° | 129.1  | 136.3  | 40.7   | 22.5   | 23.6   |
| 105°   | 163.7  | 169.8  | 120.3  | 23.1   | 24.2   |
| 107.5° | 200.5  | 205.5  | 213.7  | 129.1  | 57.1   |
| 110°   | 237.4  | 241.7  | 247.8  | 229.7  | 151.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 272.5 | 276.4 | 282.4 | 287.4 | 286.3 |
| 115°   | 307.1 | 310.4 | 315.4 | 320.9 | 323.1 |
| 117.5° | 341.2 | 345.0 | 347.8 | 352.2 | 352.7 |
| 120°   | 372.5 | 377.5 | 379.1 | 383.5 | 383.5 |
| 122.5° | 404.4 | 408.2 | 410.4 | 413.2 | 413.7 |
| 125°   | 432.9 | 437.3 | 439.5 | 440.6 | 441.7 |
| 127.5° | 461.5 | 465.9 | 468.7 | 470.3 | 469.2 |
| 130°   | 487.9 | 492.3 | 494.5 | 496.7 | 495.6 |
| 132.5° | 513.2 | 517.6 | 519.2 | 521.4 | 519.8 |
| 135°   | 539.0 | 542.3 | 544.5 | 546.1 | 544.5 |
| 137.5° | 561.0 | 565.4 | 566.5 | 569.2 | 568.1 |
| 140°   | 582.9 | 586.2 | 587.9 | 590.1 | 589.0 |
| 142.5° | 603.3 | 606.6 | 608.2 | 609.9 | 608.2 |
| 145°   | 622.0 | 625.8 | 626.9 | 628.0 | 628.0 |
| 147.5° | 640.1 | 642.8 | 643.9 | 645.0 | 642.3 |
| 150°   | 656.6 | 658.2 | 659.3 | 660.4 | 658.8 |
| 152.5° | 671.4 | 672.0 | 672.5 | 674.7 | 672.0 |
| 155°   | 685.1 | 684.0 | 684.6 | 687.3 | 684.0 |
| 157.5° | 696.1 | 696.1 | 695.6 | 698.9 | 694.5 |
| 160°   | 706.0 | 705.5 | 704.9 | 708.2 | 704.4 |
| 162.5° | 715.4 | 713.7 | 713.2 | 717.0 | 713.7 |
| 165°   | 722.5 | 720.9 | 720.3 | 724.7 | 720.9 |
| 167.5° | 728.5 | 726.3 | 726.3 | 730.7 | 726.3 |
| 170°   | 733.5 | 731.3 | 731.3 | 735.7 | 731.3 |
| 172.5° | 736.8 | 734.0 | 734.6 | 739.0 | 734.0 |
| 175°   | 739.5 | 736.8 | 737.3 | 741.2 | 736.8 |
| 177.5° | 740.6 | 737.9 | 738.4 | 742.8 | 737.3 |
| 180°   | 739.5 | 739.5 | 739.5 | 739.5 | 739.5 |

(END OF REPORT)