

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: P1008096

Luminaire Tested: S122DIP-B485D330UB2750-4F0-XX-W2A-F\_3500K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1008096  
REPORT IS A COMBINATION OF REPORTS P984199 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIP-B485D330UB2750-4F0-XX-W2A-F\_3500K  
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

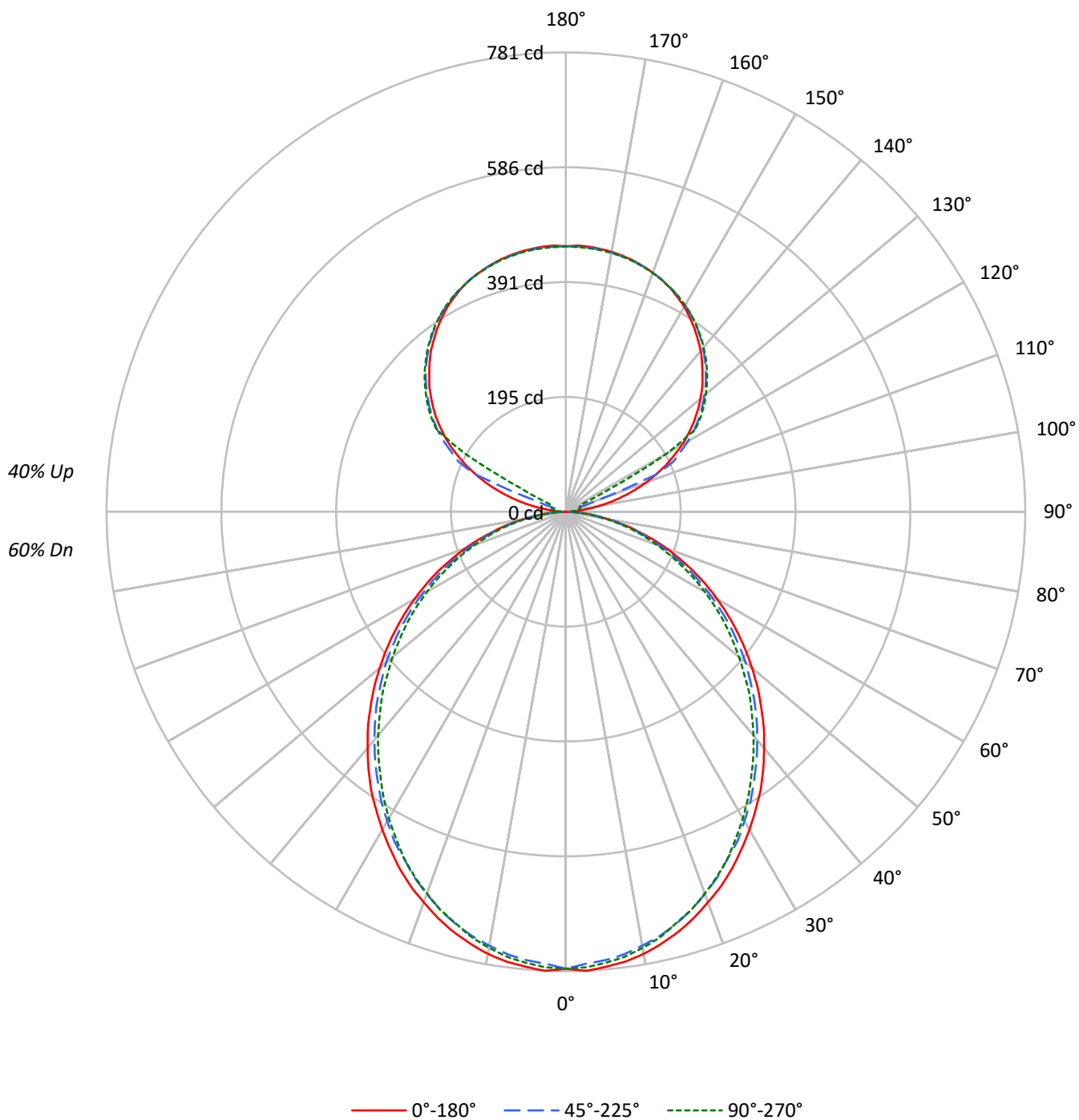
Lumens per Lamp: N/A  
Luminaire Lumens: 3300.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 33.3  
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 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 77 | 77 | 77 | 65 | 65 | 65 | 65 | 65 | 60 |
| 1   | 100 | 96  | 92  | 88  | 93  | 89  | 86  | 83  | 78 | 75 | 73 | 67 | 66 | 64 | 58 | 56 | 55 | 55 | 55 | 50 |
| 2   | 91  | 84  | 77  | 72  | 85  | 78  | 73  | 68  | 68 | 64 | 61 | 59 | 56 | 53 | 51 | 48 | 46 | 46 | 46 | 42 |
| 3   | 83  | 73  | 66  | 60  | 77  | 69  | 62  | 57  | 60 | 55 | 51 | 52 | 48 | 45 | 45 | 42 | 40 | 40 | 40 | 36 |
| 4   | 76  | 65  | 57  | 51  | 71  | 61  | 54  | 48  | 54 | 48 | 43 | 47 | 42 | 39 | 40 | 37 | 34 | 34 | 34 | 31 |
| 5   | 70  | 58  | 50  | 44  | 65  | 55  | 47  | 42  | 48 | 42 | 38 | 42 | 37 | 34 | 36 | 33 | 30 | 30 | 30 | 27 |
| 6   | 64  | 52  | 44  | 38  | 60  | 49  | 42  | 36  | 43 | 37 | 33 | 38 | 33 | 29 | 33 | 29 | 26 | 26 | 26 | 23 |
| 7   | 60  | 47  | 39  | 33  | 56  | 44  | 37  | 32  | 39 | 33 | 29 | 35 | 30 | 26 | 30 | 26 | 23 | 23 | 23 | 21 |
| 8   | 55  | 43  | 35  | 30  | 52  | 40  | 33  | 28  | 36 | 30 | 26 | 32 | 27 | 23 | 28 | 24 | 21 | 21 | 21 | 19 |
| 9   | 52  | 39  | 32  | 26  | 48  | 37  | 30  | 25  | 33 | 27 | 23 | 29 | 24 | 21 | 26 | 22 | 19 | 19 | 19 | 17 |
| 10  | 48  | 36  | 29  | 24  | 45  | 34  | 27  | 23  | 30 | 25 | 21 | 27 | 22 | 19 | 24 | 20 | 17 | 17 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12295 | 12295 | 12295 |
| 5°  | 12315 | 11719 | 11636 |
| 10° | 12213 | 11184 | 10963 |
| 15° | 12035 | 10647 | 10255 |
| 20° | 11794 | 10061 | 9585  |
| 25° | 11552 | 9451  | 8916  |
| 30° | 11249 | 8876  | 8212  |
| 35° | 10964 | 8270  | 7524  |
| 40° | 10611 | 7671  | 6870  |
| 45° | 10258 | 7078  | 6231  |
| 50° | 9876  | 6475  | 5568  |
| 55° | 9473  | 5829  | 4939  |
| 60° | 9018  | 5131  | 4286  |
| 65° | 8521  | 4421  | 3599  |
| 70° | 7891  | 3643  | 2907  |
| 75° | 7021  | 2808  | 2243  |
| 80° | 5964  | 1908  | 1444  |
| 85° | 4322  | 887   | 614   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10258 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.1   | 2.2       |
| 10°-20°   | 205.7  | 6.2       |
| 20°-30°   | 302.3  | 9.2       |
| 30°-40°   | 351.0  | 10.6      |
| 40°-50°   | 350.6  | 10.6      |
| 50°-60°   | 305.7  | 9.3       |
| 60°-70°   | 226.0  | 6.8       |
| 70°-80°   | 127.9  | 3.9       |
| 80°-90°   | 34.5   | 1.0       |
| 90°-100°  | 14.9   | 0.5       |
| 100°-110° | 55.5   | 1.7       |
| 110°-120° | 147.1  | 4.5       |
| 120°-130° | 244.0  | 7.4       |
| 130°-140° | 259.2  | 7.9       |
| 140°-150° | 240.9  | 7.3       |
| 150°-160° | 193.7  | 5.9       |
| 160°-170° | 124.8  | 3.8       |
| 170°-180° | 43.0   | 1.3       |
| <hr/>     |        |           |
| 0°-30°    | 581.0  | 17.6      |
| 0°-40°    | 932.1  | 28.2      |
| 0°-60°    | 1588.4 | 48.1      |
| 0°-90°    | 1976.8 | 59.9      |
| 90°-120°  | 217.5  | 6.6       |
| 90°-150°  | 961.7  | 29.1      |
| 90°-180°  | 1323.0 | 40.1      |
| 0°-180°   | 3300.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 777 | 777   | 777 | 777   | 777 |      |
| 5°   | 777 | 774   | 766 | 772   | 770 | 74   |
| 15°  | 739 | 735   | 725 | 728   | 724 | 208  |
| 25°  | 669 | 663   | 650 | 652   | 650 | 308  |
| 35°  | 577 | 570   | 558 | 553   | 550 | 360  |
| 45°  | 470 | 464   | 453 | 445   | 442 | 363  |
| 55°  | 356 | 351   | 342 | 333   | 329 | 318  |
| 65°  | 240 | 235   | 228 | 221   | 217 | 237  |
| 75°  | 126 | 124   | 120 | 116   | 117 | 134  |
| 85°  | 31  | 30    | 29  | 27    | 26  | 34   |
| 90°  | 0   | 4     | 6   | 8     | 9   | 3    |
| 95°  | 21  | 10    | 13  | 14    | 14  | 25   |
| 105° | 99  | 109   | 20  | 24    | 25  | 106  |
| 115° | 188 | 193   | 202 | 50    | 27  | 185  |
| 125° | 266 | 270   | 276 | 278   | 279 | 237  |
| 135° | 329 | 334   | 337 | 340   | 339 | 254  |
| 145° | 381 | 381   | 386 | 389   | 387 | 238  |
| 155° | 420 | 417   | 421 | 423   | 420 | 193  |
| 165° | 442 | 440   | 441 | 444   | 441 | 125  |
| 175° | 452 | 450   | 451 | 453   | 450 | 43   |
| 180° | 451 | 451   | 451 | 451   | 451 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 |
| 2.5°   | 781.2 | 777.4 | 769.2 | 776.7 | 775.2 |
| 5°     | 776.7 | 773.7 | 765.5 | 771.5 | 770.0 |
| 7.5°   | 771.5 | 767.0 | 758.8 | 764.7 | 763.2 |
| 10°    | 763.2 | 758.0 | 749.0 | 755.0 | 752.8 |
| 12.5°  | 752.0 | 747.6 | 738.6 | 742.3 | 740.8 |
| 15°    | 739.3 | 734.9 | 725.2 | 728.1 | 724.4 |
| 17.5°  | 723.7 | 719.2 | 709.5 | 713.2 | 709.5 |
| 20°    | 706.5 | 702.0 | 691.5 | 693.8 | 690.8 |
| 22.5°  | 689.3 | 682.6 | 672.9 | 672.9 | 671.4 |
| 25°    | 669.1 | 663.2 | 650.5 | 652.0 | 650.5 |
| 27.5°  | 646.7 | 641.5 | 631.8 | 629.6 | 625.8 |
| 30°    | 624.3 | 618.4 | 607.2 | 604.9 | 601.9 |
| 32.5°  | 600.4 | 596.0 | 584.0 | 579.5 | 576.5 |
| 35°    | 577.3 | 569.8 | 557.9 | 553.4 | 549.7 |
| 37.5°  | 551.1 | 544.4 | 532.5 | 527.2 | 523.5 |
| 40°    | 524.3 | 518.3 | 506.3 | 499.6 | 496.6 |
| 42.5°  | 498.1 | 492.1 | 480.2 | 472.7 | 468.2 |
| 45°    | 469.7 | 464.5 | 453.3 | 445.1 | 442.1 |
| 47.5°  | 442.1 | 436.9 | 424.9 | 416.7 | 412.2 |
| 50°    | 413.0 | 409.3 | 398.8 | 388.3 | 384.6 |
| 52.5°  | 384.6 | 379.4 | 369.7 | 361.5 | 356.2 |
| 55°    | 355.5 | 351.0 | 342.0 | 333.1 | 329.3 |
| 57.5°  | 326.4 | 322.6 | 312.9 | 304.0 | 301.0 |
| 60°    | 297.2 | 294.2 | 283.8 | 275.6 | 273.3 |
| 62.5°  | 268.9 | 263.6 | 256.2 | 248.7 | 245.7 |
| 65°    | 239.7 | 235.2 | 227.8 | 221.1 | 217.3 |
| 67.5°  | 209.9 | 206.1 | 199.4 | 194.2 | 191.2 |
| 70°    | 182.2 | 179.2 | 172.5 | 167.3 | 164.3 |
| 72.5°  | 153.8 | 150.9 | 147.1 | 141.9 | 139.7 |
| 75°    | 125.5 | 124.0 | 120.2 | 115.8 | 117.2 |
| 77.5°  | 100.1 | 97.1  | 95.6  | 93.4  | 91.1  |
| 80°    | 74.7  | 73.9  | 72.4  | 70.2  | 68.7  |
| 82.5°  | 50.8  | 50.8  | 50.0  | 47.0  | 47.0  |
| 85°    | 30.6  | 29.9  | 29.1  | 26.9  | 26.1  |
| 87.5°  | 13.4  | 11.9  | 10.5  | 8.2   | 7.5   |
| 90°    | 0.3   | 3.9   | 6.5   | 8.2   | 8.8   |
| 92.5°  | 8.2   | 6.9   | 7.8   | 8.5   | 8.8   |
| 95°    | 21.2  | 10.5  | 12.7  | 14.4  | 14.0  |
| 97.5°  | 38.2  | 11.4  | 16.7  | 17.6  | 18.0  |
| 100°   | 57.8  | 13.1  | 18.6  | 21.2  | 21.9  |
| 102.5° | 79.4  | 78.7  | 19.3  | 22.9  | 23.8  |
| 105°   | 99.3  | 109.1 | 19.9  | 23.5  | 24.8  |
| 107.5° | 122.5 | 130.6 | 20.6  | 24.2  | 25.5  |
| 110°   | 144.7 | 151.5 | 57.2  | 24.5  | 25.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 165.6 | 171.5 | 165.9 | 25.1  | 26.1  |
| 115°   | 187.8 | 193.3 | 201.5 | 50.3  | 26.8  |
| 117.5° | 207.1 | 213.6 | 219.1 | 172.4 | 86.9  |
| 120°   | 228.6 | 233.5 | 239.4 | 243.3 | 199.2 |
| 122.5° | 246.9 | 252.1 | 258.7 | 260.6 | 260.9 |
| 125°   | 265.5 | 269.8 | 276.0 | 278.3 | 279.2 |
| 127.5° | 282.5 | 287.1 | 292.0 | 295.2 | 295.6 |
| 130°   | 298.5 | 303.7 | 307.3 | 310.9 | 310.6 |
| 132.5° | 314.8 | 319.1 | 322.7 | 325.6 | 325.3 |
| 135°   | 328.6 | 333.8 | 336.7 | 340.0 | 339.3 |
| 137.5° | 342.9 | 346.8 | 350.1 | 353.4 | 352.4 |
| 140°   | 357.0 | 359.6 | 363.2 | 366.1 | 364.5 |
| 142.5° | 368.7 | 371.0 | 375.3 | 377.9 | 376.2 |
| 145°   | 381.1 | 380.8 | 386.4 | 388.6 | 387.0 |
| 147.5° | 391.9 | 390.9 | 396.5 | 398.1 | 396.8 |
| 150°   | 402.4 | 400.1 | 405.3 | 407.3 | 405.6 |
| 152.5° | 411.2 | 408.6 | 413.5 | 415.4 | 413.1 |
| 155°   | 419.7 | 416.7 | 420.7 | 422.6 | 420.0 |
| 157.5° | 426.5 | 423.9 | 426.9 | 429.1 | 426.5 |
| 160°   | 432.4 | 430.5 | 432.4 | 434.4 | 432.1 |
| 162.5° | 437.6 | 435.7 | 437.3 | 439.6 | 436.7 |
| 165°   | 442.2 | 440.2 | 441.2 | 443.5 | 441.2 |
| 167.5° | 445.8 | 443.8 | 444.8 | 447.1 | 444.2 |
| 170°   | 448.7 | 446.8 | 447.4 | 449.7 | 446.8 |
| 172.5° | 450.7 | 448.7 | 449.4 | 451.7 | 448.7 |
| 175°   | 452.3 | 450.0 | 450.7 | 453.0 | 449.7 |
| 177.5° | 453.0 | 450.7 | 451.0 | 453.3 | 450.4 |
| 180°   | 451.4 | 451.4 | 451.4 | 451.4 | 451.4 |

(END OF REPORT)