

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: P1027932

Luminaire Tested: S125DIP-B375D850UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027932  
REPORT IS A COMBINATION OF REPORTS P1002063 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B375D850UB27-4F0-XX-W2A-D1  
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

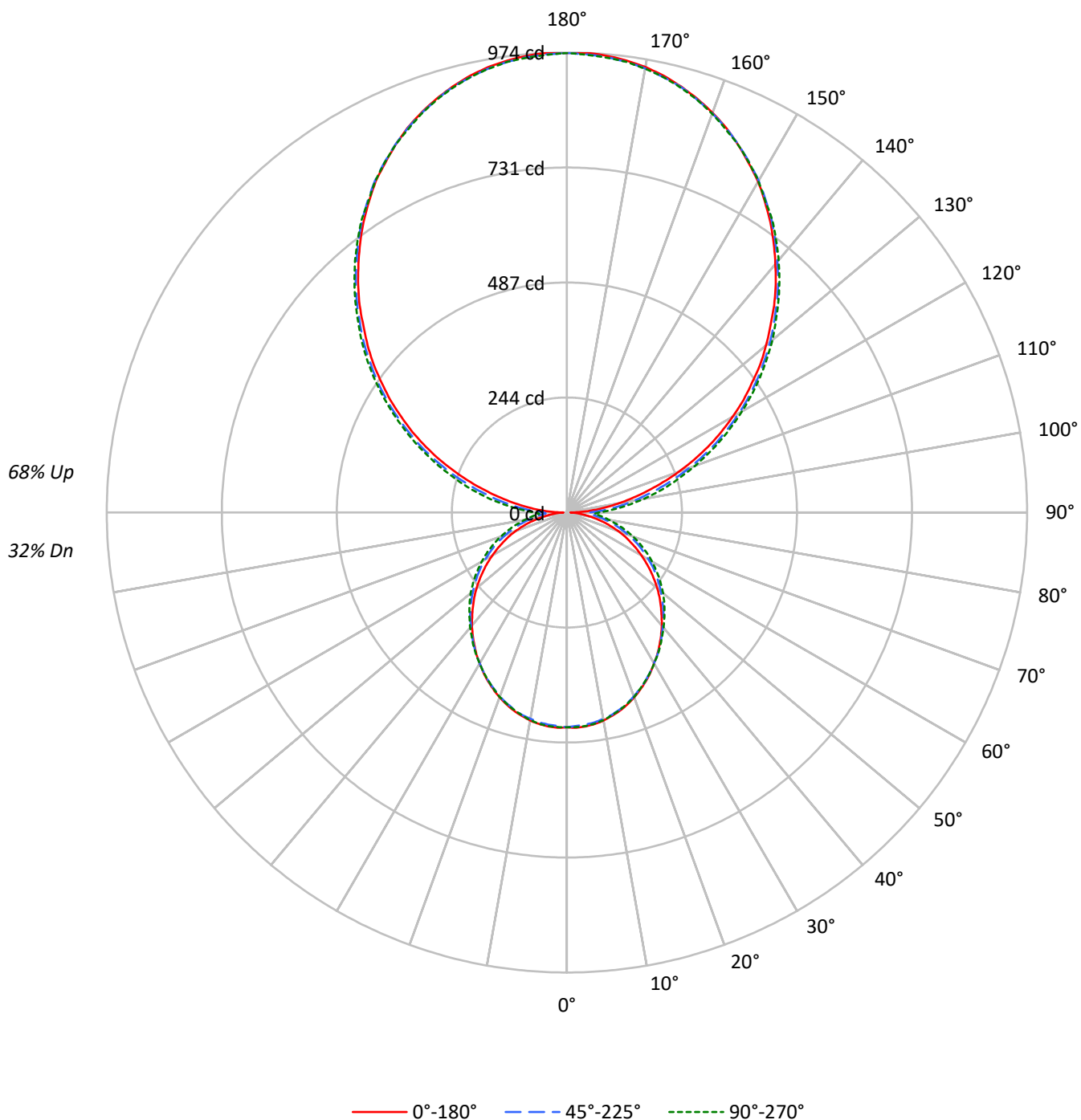
Lumens per Lamp: N/A  
Luminaire Lumens: 4126.0 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 34.1  
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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 73 | 73 | 73 | 56 | 56 | 56 | 40 | 40 | 40 | 40 | 40 | 32 |
| 1   | 93  | 89  | 85  | 81  | 84 | 80 | 77 | 74 | 63 | 61 | 59 | 48 | 47 | 45 | 34 | 33 | 33 | 33 | 33 | 26 |
| 2   | 85  | 77  | 71  | 66  | 76 | 70 | 64 | 60 | 55 | 52 | 48 | 42 | 40 | 37 | 30 | 28 | 27 | 27 | 27 | 21 |
| 3   | 77  | 68  | 60  | 55  | 69 | 61 | 55 | 50 | 49 | 44 | 40 | 37 | 34 | 31 | 26 | 24 | 23 | 23 | 23 | 18 |
| 4   | 70  | 60  | 52  | 46  | 63 | 54 | 47 | 42 | 43 | 38 | 34 | 33 | 29 | 27 | 23 | 21 | 19 | 19 | 19 | 15 |
| 5   | 64  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 38 | 33 | 29 | 29 | 26 | 23 | 21 | 19 | 17 | 17 | 17 | 13 |
| 6   | 59  | 47  | 39  | 34  | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 26 | 23 | 20 | 19 | 17 | 15 | 15 | 15 | 12 |
| 7   | 55  | 43  | 35  | 29  | 49 | 39 | 32 | 27 | 31 | 26 | 22 | 24 | 20 | 18 | 17 | 15 | 13 | 13 | 13 | 10 |
| 8   | 51  | 39  | 31  | 26  | 45 | 35 | 28 | 24 | 28 | 23 | 20 | 22 | 18 | 16 | 16 | 13 | 12 | 12 | 12 | 9  |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 20 | 16 | 14 | 15 | 12 | 10 | 10 | 10 | 8  |
| 10  | 44  | 32  | 25  | 20  | 39 | 29 | 23 | 19 | 24 | 19 | 16 | 18 | 15 | 13 | 14 | 11 | 9  | 9  | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2914 | 2914 | 2914 |
| 5°  | 2919 | 2853 | 2860 |
| 10° | 2897 | 2795 | 2787 |
| 15° | 2862 | 2727 | 2697 |
| 20° | 2814 | 2646 | 2608 |
| 25° | 2757 | 2558 | 2500 |
| 30° | 2690 | 2464 | 2401 |
| 35° | 2626 | 2376 | 2311 |
| 40° | 2561 | 2284 | 2220 |
| 45° | 2488 | 2204 | 2138 |
| 50° | 2417 | 2117 | 2064 |
| 55° | 2333 | 2034 | 1977 |
| 60° | 2240 | 1940 | 1889 |
| 65° | 2143 | 1841 | 1790 |
| 70° | 2032 | 1708 | 1686 |
| 75° | 1857 | 1577 | 1561 |
| 80° | 1629 | 1417 | 1421 |
| 85° | 1401 | 1289 | 1347 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 2488 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.0   | 1.0       |
| 10°-20°   | 122.2  | 3.0       |
| 20°-30°   | 181.7  | 4.4       |
| 30°-40°   | 215.2  | 5.2       |
| 40°-50°   | 222.5  | 5.4       |
| 50°-60°   | 204.9  | 5.0       |
| 60°-70°   | 165.7  | 4.0       |
| 70°-80°   | 110.8  | 2.7       |
| 80°-90°   | 58.8   | 1.4       |
| 90°-100°  | 97.0   | 2.4       |
| 100°-110° | 216.0  | 5.2       |
| 110°-120° | 341.9  | 8.3       |
| 120°-130° | 438.2  | 10.6      |
| 130°-140° | 484.8  | 11.8      |
| 140°-150° | 472.1  | 11.4      |
| 150°-160° | 395.9  | 9.6       |
| 160°-170° | 263.2  | 6.4       |
| 170°-180° | 92.1   | 2.2       |
| 0°-30°    | 346.9  | 8.4       |
| 0°-40°    | 562.1  | 13.6      |
| 0°-60°    | 989.5  | 24.0      |
| 0°-90°    | 1324.8 | 32.1      |
| 90°-120°  | 654.9  | 15.9      |
| 90°-150°  | 2050.0 | 49.7      |
| 90°-180°  | 2801.0 | 67.9      |
| 0°-180°   | 4126.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 455 | 455   | 455 | 455   | 455 |      |
| 5°   | 455 | 454   | 451 | 454   | 454 | 43   |
| 15°  | 434 | 435   | 432 | 434   | 432 | 122  |
| 25°  | 395 | 396   | 393 | 395   | 393 | 182  |
| 35°  | 342 | 345   | 343 | 345   | 345 | 214  |
| 45°  | 281 | 286   | 288 | 292   | 292 | 217  |
| 55°  | 216 | 223   | 230 | 235   | 237 | 193  |
| 65°  | 149 | 159   | 170 | 177   | 178 | 148  |
| 75°  | 82  | 94    | 108 | 117   | 119 | 87   |
| 85°  | 24  | 39    | 55  | 65    | 68  | 26   |
| 90°  | 8   | 28    | 49  | 63    | 68  | 8    |
| 95°  | 55  | 68    | 91  | 106   | 111 | 56   |
| 105° | 177 | 188   | 206 | 219   | 224 | 188  |
| 115° | 329 | 335   | 348 | 356   | 358 | 326  |
| 125° | 478 | 482   | 492 | 497   | 499 | 428  |
| 135° | 620 | 624   | 628 | 634   | 633 | 478  |
| 145° | 751 | 753   | 756 | 758   | 757 | 469  |
| 155° | 859 | 859   | 859 | 862   | 859 | 396  |
| 165° | 934 | 932   | 933 | 936   | 931 | 263  |
| 175° | 971 | 968   | 968 | 972   | 967 | 92   |
| 180° | 973 | 973   | 973 | 973   | 973 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 |
| 2.5°   | 456.2 | 455.3 | 452.2 | 455.3 | 454.8 |
| 5°     | 454.8 | 453.9 | 450.8 | 454.4 | 453.9 |
| 7.5°   | 451.7 | 451.3 | 448.1 | 451.3 | 450.8 |
| 10°    | 447.3 | 447.3 | 443.7 | 446.8 | 446.4 |
| 12.5°  | 441.0 | 441.5 | 438.8 | 441.0 | 439.7 |
| 15°    | 434.3 | 434.8 | 431.6 | 434.3 | 432.5 |
| 17.5°  | 425.9 | 426.7 | 423.6 | 425.9 | 424.5 |
| 20°    | 416.5 | 417.4 | 414.3 | 415.6 | 415.6 |
| 22.5°  | 405.8 | 407.6 | 404.0 | 405.8 | 404.4 |
| 25°    | 394.6 | 396.0 | 393.3 | 395.1 | 392.9 |
| 27.5°  | 382.6 | 384.4 | 381.3 | 382.6 | 381.7 |
| 30°    | 368.8 | 371.4 | 368.8 | 369.7 | 369.2 |
| 32.5°  | 356.3 | 358.5 | 356.7 | 357.6 | 357.2 |
| 35°    | 341.6 | 344.7 | 343.4 | 344.7 | 344.7 |
| 37.5°  | 327.3 | 330.0 | 329.5 | 331.3 | 330.9 |
| 40°    | 312.6 | 316.2 | 315.7 | 317.5 | 318.4 |
| 42.5°  | 296.5 | 301.4 | 302.8 | 305.0 | 305.0 |
| 45°    | 281.4 | 286.3 | 288.5 | 291.6 | 292.1 |
| 47.5°  | 265.8 | 270.2 | 273.8 | 278.3 | 279.1 |
| 50°    | 249.7 | 254.6 | 259.5 | 264.4 | 265.8 |
| 52.5°  | 232.8 | 239.0 | 245.3 | 250.6 | 251.5 |
| 55°    | 216.3 | 223.4 | 230.5 | 235.4 | 237.2 |
| 57.5°  | 199.3 | 207.8 | 215.8 | 221.2 | 222.5 |
| 60°    | 182.4 | 191.3 | 200.2 | 206.9 | 208.2 |
| 62.5°  | 165.9 | 174.8 | 184.6 | 192.2 | 194.0 |
| 65°    | 148.9 | 159.2 | 169.9 | 176.6 | 178.4 |
| 67.5°  | 133.3 | 143.1 | 153.8 | 161.9 | 164.1 |
| 70°    | 115.9 | 126.2 | 137.8 | 146.3 | 148.9 |
| 72.5°  | 99.0  | 109.7 | 122.6 | 132.0 | 133.8 |
| 75°    | 82.0  | 93.6  | 107.9 | 116.8 | 119.1 |
| 77.5°  | 65.5  | 78.9  | 92.3  | 102.1 | 103.9 |
| 80°    | 50.4  | 63.8  | 78.9  | 88.7  | 90.5  |
| 82.5°  | 36.6  | 50.8  | 66.4  | 75.8  | 79.4  |
| 85°    | 24.5  | 39.2  | 54.8  | 64.7  | 68.2  |
| 87.5°  | 15.6  | 29.9  | 45.0  | 55.3  | 58.4  |
| 90°    | 7.9   | 28.2  | 48.7  | 62.7  | 68.1  |
| 92.5°  | 28.9  | 45.7  | 68.1  | 83.2  | 87.8  |
| 95°    | 55.0  | 68.1  | 90.9  | 106.0 | 110.6 |
| 97.5°  | 81.1  | 92.6  | 117.9 | 131.7 | 135.7 |
| 100°   | 110.9 | 120.3 | 144.3 | 160.6 | 164.8 |
| 102.5° | 143.1 | 155.2 | 172.9 | 189.4 | 194.3 |
| 105°   | 176.6 | 187.5 | 205.5 | 218.9 | 224.4 |
| 107.5° | 213.3 | 223.3 | 240.0 | 251.3 | 253.9 |
| 110°   | 251.5 | 260.6 | 275.4 | 286.1 | 288.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 290.8 | 296.3 | 311.5 | 320.2 | 321.8 |
| 115°   | 329.0 | 335.2 | 348.3 | 355.5 | 357.5 |
| 117.5° | 367.9 | 371.0 | 383.6 | 391.9 | 392.0 |
| 120°   | 404.3 | 409.4 | 420.4 | 428.0 | 427.7 |
| 122.5° | 443.2 | 444.4 | 456.5 | 462.9 | 463.2 |
| 125°   | 478.1 | 482.1 | 491.9 | 497.4 | 498.9 |
| 127.5° | 516.2 | 518.1 | 526.4 | 532.4 | 533.4 |
| 130°   | 550.3 | 553.6 | 561.4 | 566.9 | 567.6 |
| 132.5° | 583.9 | 590.7 | 594.5 | 599.9 | 599.5 |
| 135°   | 620.3 | 624.3 | 628.3 | 634.1 | 633.2 |
| 137.5° | 654.3 | 658.4 | 661.7 | 667.9 | 665.9 |
| 140°   | 686.4 | 690.2 | 693.0 | 699.4 | 697.4 |
| 142.5° | 719.0 | 721.6 | 724.6 | 729.4 | 727.4 |
| 145°   | 750.8 | 753.4 | 755.7 | 757.9 | 757.4 |
| 147.5° | 779.9 | 782.2 | 783.7 | 786.8 | 781.7 |
| 150°   | 809.4 | 808.7 | 811.7 | 811.7 | 810.6 |
| 152.5° | 833.7 | 835.2 | 835.9 | 838.2 | 835.2 |
| 155°   | 858.6 | 858.6 | 859.4 | 862.4 | 858.6 |
| 157.5° | 881.4 | 879.8 | 880.6 | 883.6 | 878.3 |
| 160°   | 901.0 | 898.8 | 899.5 | 902.6 | 898.8 |
| 162.5° | 918.5 | 916.9 | 916.9 | 920.7 | 916.2 |
| 165°   | 933.6 | 932.1 | 932.8 | 935.9 | 931.3 |
| 167.5° | 947.2 | 944.2 | 944.2 | 948.7 | 944.2 |
| 170°   | 957.8 | 954.8 | 954.8 | 959.3 | 954.0 |
| 172.5° | 965.4 | 962.4 | 962.4 | 966.9 | 962.4 |
| 175°   | 970.7 | 967.7 | 967.7 | 972.2 | 966.9 |
| 177.5° | 974.5 | 971.5 | 970.7 | 975.2 | 969.9 |
| 180°   | 973.0 | 973.0 | 973.0 | 973.0 | 973.0 |

(END OF REPORT)