

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: P1028385

Luminaire Tested: S125DIP-B850D850UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1028385  
REPORT IS A COMBINATION OF REPORTS P1002687 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B850D850UB30-4F0-XX-W2A-D1  
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

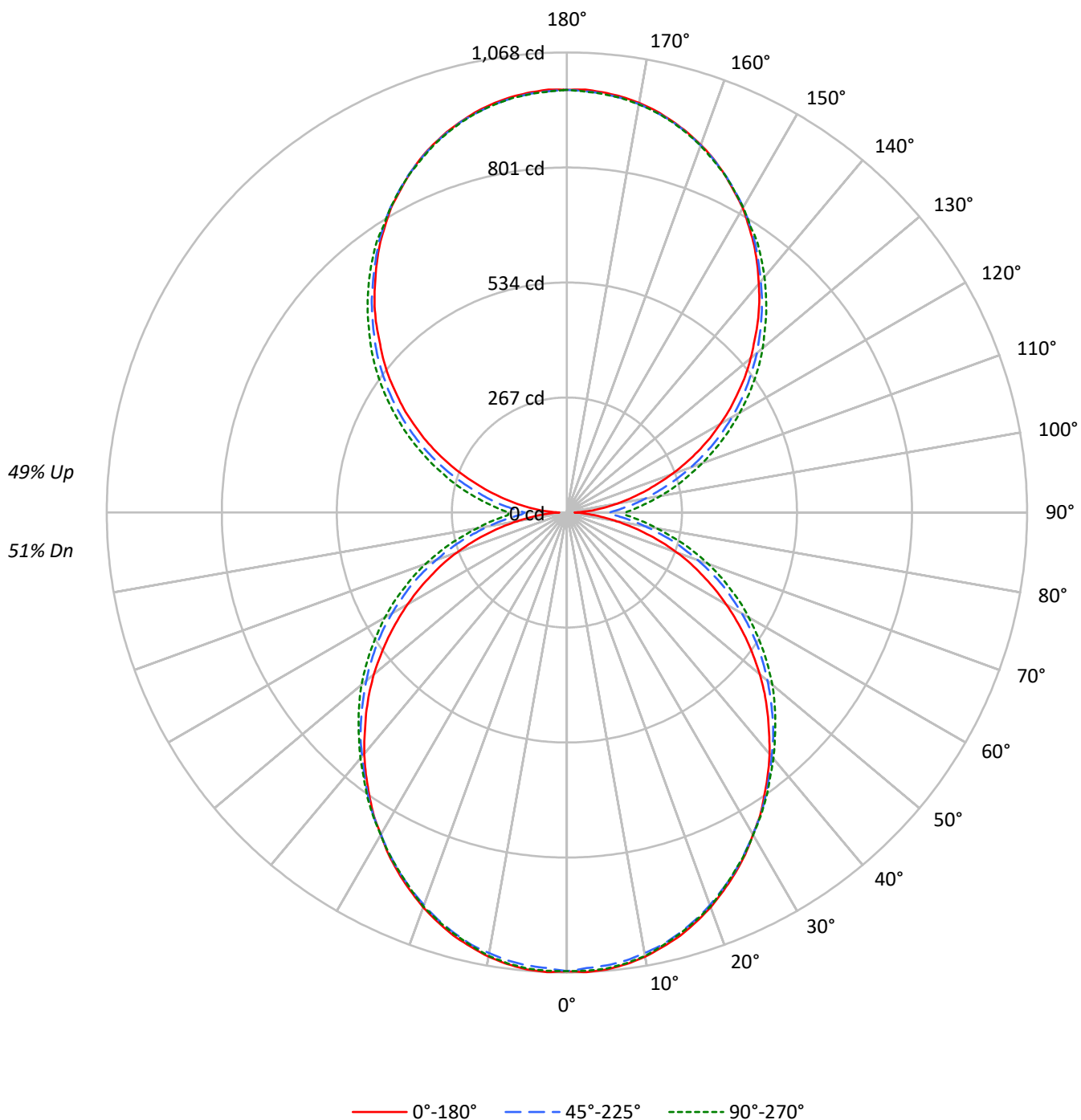
Lumens per Lamp: N/A  
Luminaire Lumens: 6039.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

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 | 70 | 70 | 70 | 57 | 57 | 57 |
| 1   | 97  | 93  | 88  | 85  | 90 | 86 | 82 | 79 | 73 | 70 | 67 | 61 | 59 | 57 | 49 | 48 | 47 |
| 2   | 88  | 80  | 74  | 69  | 81 | 74 | 69 | 64 | 63 | 59 | 55 | 53 | 50 | 47 | 43 | 41 | 39 |
| 3   | 80  | 70  | 63  | 57  | 74 | 65 | 59 | 53 | 55 | 50 | 46 | 46 | 43 | 39 | 38 | 35 | 33 |
| 4   | 73  | 62  | 54  | 48  | 67 | 58 | 50 | 45 | 49 | 44 | 39 | 41 | 37 | 33 | 34 | 31 | 28 |
| 5   | 67  | 55  | 47  | 41  | 62 | 51 | 44 | 38 | 44 | 38 | 34 | 37 | 32 | 29 | 30 | 27 | 24 |
| 6   | 62  | 50  | 41  | 35  | 57 | 46 | 39 | 33 | 39 | 34 | 29 | 33 | 29 | 25 | 27 | 24 | 21 |
| 7   | 57  | 45  | 37  | 31  | 53 | 42 | 34 | 29 | 36 | 30 | 26 | 30 | 26 | 22 | 25 | 22 | 19 |
| 8   | 53  | 41  | 33  | 27  | 49 | 38 | 31 | 26 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 17 |
| 9   | 49  | 37  | 29  | 24  | 46 | 35 | 28 | 23 | 30 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 15 |
| 10  | 46  | 34  | 27  | 22  | 43 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 20 | 16 | 14 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6823 | 6823 | 6823 |
| 5°  | 6834 | 6680 | 6697 |
| 10° | 6783 | 6544 | 6525 |
| 15° | 6700 | 6385 | 6315 |
| 20° | 6589 | 6194 | 6106 |
| 25° | 6457 | 5991 | 5853 |
| 30° | 6297 | 5768 | 5623 |
| 35° | 6147 | 5563 | 5411 |
| 40° | 5996 | 5348 | 5197 |
| 45° | 5824 | 5161 | 5005 |
| 50° | 5659 | 4957 | 4832 |
| 55° | 5462 | 4764 | 4630 |
| 60° | 5245 | 4543 | 4424 |
| 65° | 5017 | 4311 | 4191 |
| 70° | 4759 | 3999 | 3949 |
| 75° | 4350 | 3692 | 3654 |
| 80° | 3813 | 3318 | 3327 |
| 85° | 3282 | 3019 | 3155 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5824 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.8  | 1.7       |
| 10°-20°   | 286.1  | 4.7       |
| 20°-30°   | 425.4  | 7.0       |
| 30°-40°   | 503.8  | 8.3       |
| 40°-50°   | 520.9  | 8.6       |
| 50°-60°   | 479.8  | 7.9       |
| 60°-70°   | 387.9  | 6.4       |
| 70°-80°   | 259.5  | 4.3       |
| 80°-90°   | 135.7  | 2.2       |
| 90°-100°  | 140.8  | 2.3       |
| 100°-110° | 249.5  | 4.1       |
| 110°-120° | 366.0  | 6.1       |
| 120°-130° | 453.9  | 7.5       |
| 130°-140° | 494.2  | 8.2       |
| 140°-150° | 477.2  | 7.9       |
| 150°-160° | 399.3  | 6.6       |
| 160°-170° | 265.4  | 4.4       |
| 170°-180° | 92.9   | 1.5       |
| 0°-30°    | 812.3  | 13.5      |
| 0°-40°    | 1316.1 | 21.8      |
| 0°-60°    | 2316.7 | 38.4      |
| 0°-90°    | 3099.8 | 51.3      |
| 90°-120°  | 756.4  | 12.5      |
| 90°-150°  | 2181.6 | 36.1      |
| 90°-180°  | 2939.0 | 48.7      |
| 0°-180°   | 6039.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1065 | 1065  | 1065 | 1065  | 1065 |      |
| 5°   | 1065 | 1063  | 1056 | 1064  | 1063 | 101  |
| 15°  | 1017 | 1018  | 1011 | 1017  | 1013 | 287  |
| 25°  | 924  | 927   | 921  | 925   | 920  | 425  |
| 35°  | 800  | 807   | 804  | 807   | 807  | 501  |
| 45°  | 659  | 670   | 676  | 683   | 684  | 508  |
| 55°  | 506  | 523   | 540  | 551   | 555  | 453  |
| 65°  | 349  | 373   | 398  | 413   | 418  | 346  |
| 75°  | 192  | 219   | 253  | 274   | 279  | 204  |
| 85°  | 57   | 92    | 128  | 151   | 160  | 60   |
| 90°  | 18   | 57    | 98   | 126   | 135  | 15   |
| 95°  | 63   | 92    | 135  | 163   | 172  | 63   |
| 105° | 184  | 204   | 240  | 265   | 275  | 196  |
| 115° | 335  | 346   | 374  | 392   | 398  | 332  |
| 125° | 484  | 488   | 510  | 525   | 529  | 434  |
| 135° | 627  | 630   | 638  | 652   | 654  | 483  |
| 145° | 758  | 760   | 762  | 767   | 769  | 473  |
| 155° | 866  | 866   | 867  | 870   | 866  | 399  |
| 165° | 942  | 940   | 941  | 944   | 939  | 266  |
| 175° | 979  | 976   | 976  | 980   | 975  | 93   |
| 180° | 981  | 981   | 981  | 981   | 981  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1064.9 | 1064.9 | 1064.9 | 1064.9 | 1064.9 |
| 2.5°   | 1068.1 | 1066.0 | 1058.7 | 1066.0 | 1064.9 |
| 5°     | 1064.9 | 1062.9 | 1055.5 | 1063.9 | 1062.9 |
| 7.5°   | 1057.6 | 1056.6 | 1049.3 | 1056.6 | 1055.5 |
| 10°    | 1047.2 | 1047.2 | 1038.8 | 1046.1 | 1045.1 |
| 12.5°  | 1032.6 | 1033.6 | 1027.4 | 1032.6 | 1029.4 |
| 15°    | 1016.9 | 1018.0 | 1010.6 | 1016.9 | 1012.7 |
| 17.5°  | 997.1  | 999.2  | 991.9  | 997.1  | 993.9  |
| 20°    | 975.2  | 977.2  | 969.9  | 973.1  | 973.1  |
| 22.5°  | 950.1  | 954.3  | 945.9  | 950.1  | 947.0  |
| 25°    | 924.0  | 927.1  | 920.9  | 925.0  | 919.8  |
| 27.5°  | 895.8  | 900.0  | 892.7  | 895.8  | 893.7  |
| 30°    | 863.4  | 869.7  | 863.4  | 865.5  | 864.5  |
| 32.5°  | 834.2  | 839.4  | 835.2  | 837.3  | 836.3  |
| 35°    | 799.7  | 807.1  | 803.9  | 807.1  | 807.1  |
| 37.5°  | 766.3  | 772.6  | 771.6  | 775.7  | 774.7  |
| 40°    | 731.9  | 740.2  | 739.2  | 743.4  | 745.5  |
| 42.5°  | 694.3  | 705.8  | 708.9  | 714.1  | 714.1  |
| 45°    | 658.8  | 670.3  | 675.5  | 682.8  | 683.9  |
| 47.5°  | 622.3  | 632.7  | 641.1  | 651.5  | 653.6  |
| 50°    | 584.7  | 596.2  | 607.6  | 619.1  | 622.3  |
| 52.5°  | 545.0  | 559.6  | 574.2  | 586.8  | 588.8  |
| 55°    | 506.4  | 523.1  | 539.8  | 551.3  | 555.4  |
| 57.5°  | 466.7  | 486.5  | 505.3  | 517.9  | 521.0  |
| 60°    | 427.0  | 447.9  | 468.8  | 484.4  | 487.6  |
| 62.5°  | 388.4  | 409.3  | 432.2  | 450.0  | 454.2  |
| 65°    | 348.7  | 372.7  | 397.8  | 413.4  | 417.6  |
| 67.5°  | 312.2  | 335.1  | 360.2  | 379.0  | 384.2  |
| 70°    | 271.5  | 295.5  | 322.6  | 342.5  | 348.7  |
| 72.5°  | 231.8  | 256.8  | 287.1  | 309.0  | 313.2  |
| 75°    | 192.1  | 219.3  | 252.7  | 273.5  | 278.8  |
| 77.5°  | 153.5  | 184.8  | 216.1  | 239.1  | 243.3  |
| 80°    | 118.0  | 149.3  | 184.8  | 207.8  | 211.9  |
| 82.5°  | 85.6   | 119.0  | 155.6  | 177.5  | 185.8  |
| 85°    | 57.4   | 91.9   | 128.4  | 151.4  | 159.7  |
| 87.5°  | 36.5   | 70.0   | 105.5  | 129.5  | 136.8  |
| 90°    | 17.5   | 57.0   | 97.8   | 125.6  | 135.2  |
| 92.5°  | 37.5   | 71.6   | 115.0  | 143.3  | 152.2  |
| 95°    | 63.2   | 91.9   | 135.0  | 163.3  | 172.2  |
| 97.5°  | 88.9   | 114.7  | 159.8  | 186.4  | 194.5  |
| 100°   | 118.4  | 140.3  | 183.6  | 212.4  | 220.2  |
| 102.5° | 150.1  | 173.9  | 210.0  | 238.5  | 247.1  |
| 105°   | 183.5  | 204.0  | 239.9  | 265.4  | 275.0  |
| 107.5° | 219.9  | 238.3  | 272.3  | 295.5  | 301.8  |
| 110°   | 257.8  | 274.1  | 305.7  | 327.8  | 334.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 297.5 | 308.4 | 339.6 | 359.2 | 365.0 |
| 115°   | 335.4 | 345.8 | 374.4 | 392.4 | 398.0 |
| 117.5° | 374.0 | 380.0 | 407.6 | 426.2 | 430.4 |
| 120°   | 410.7 | 417.7 | 442.4 | 460.1 | 463.4 |
| 122.5° | 449.4 | 451.1 | 476.4 | 492.4 | 496.4 |
| 125°   | 484.5 | 488.0 | 509.6 | 524.8 | 529.2 |
| 127.5° | 522.3 | 523.6 | 542.1 | 557.0 | 561.8 |
| 130°   | 556.7 | 559.5 | 575.6 | 589.5 | 593.2 |
| 132.5° | 590.1 | 596.9 | 606.6 | 620.4 | 622.3 |
| 135°   | 626.7 | 630.2 | 638.4 | 651.9 | 654.0 |
| 137.5° | 661.1 | 664.6 | 670.3 | 683.5 | 683.9 |
| 140°   | 692.8 | 696.6 | 700.0 | 713.0 | 713.3 |
| 142.5° | 725.6 | 727.7 | 730.8 | 740.9 | 741.3 |
| 145°   | 757.7 | 759.8 | 762.1 | 767.3 | 769.2 |
| 147.5° | 786.5 | 788.8 | 790.3 | 794.7 | 790.7 |
| 150°   | 816.3 | 815.5 | 818.6 | 818.6 | 818.0 |
| 152.5° | 840.7 | 842.2 | 843.0 | 845.3 | 842.2 |
| 155°   | 865.9 | 865.9 | 866.7 | 869.7 | 865.9 |
| 157.5° | 888.8 | 887.3 | 888.1 | 891.1 | 885.8 |
| 160°   | 908.7 | 906.4 | 907.1 | 910.2 | 906.4 |
| 162.5° | 926.2 | 924.7 | 924.7 | 928.5 | 923.9 |
| 165°   | 941.5 | 940.0 | 940.7 | 943.8 | 939.2 |
| 167.5° | 955.2 | 952.2 | 952.2 | 956.8 | 952.2 |
| 170°   | 965.9 | 962.9 | 962.9 | 967.5 | 962.1 |
| 172.5° | 973.6 | 970.5 | 970.5 | 975.1 | 970.5 |
| 175°   | 978.9 | 975.9 | 975.9 | 980.4 | 975.1 |
| 177.5° | 982.7 | 979.7 | 978.9 | 983.5 | 978.2 |
| 180°   | 981.2 | 981.2 | 981.2 | 981.2 | 981.2 |

(END OF REPORT)