

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: P1027818

Luminaire Tested: S125DIP-B375D1270UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027818  
REPORT IS A COMBINATION OF REPORTS P1001919 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B375D1270UB35-4F0-XX-W2A-F1  
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

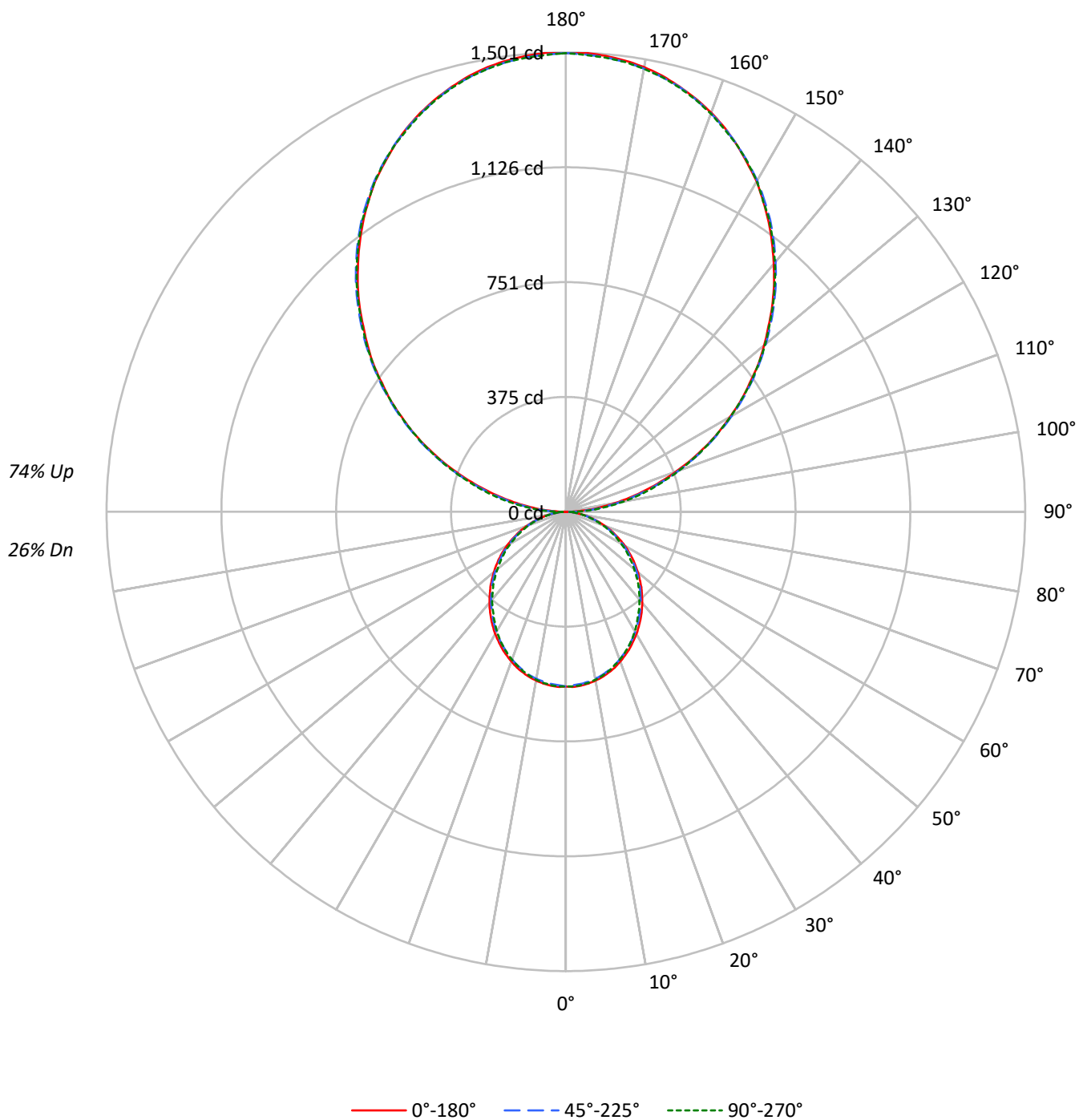
Lumens per Lamp: N/A  
Luminaire Lumens: 5671.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 48  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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   | 101 | 101 | 101 | 101 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 |
| 1   | 92  | 88  | 84  | 81  | 82 | 79 | 76 | 73 | 61 | 59 | 57 | 45 | 44 | 43 | 30 | 29 | 29 |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 60 | 54 | 50 | 47 | 40 | 37 | 36 | 27 | 25 | 24 |
| 3   | 77  | 68  | 61  | 55  | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 35 | 32 | 30 | 23 | 22 | 21 |
| 4   | 70  | 60  | 52  | 46  | 62 | 54 | 47 | 42 | 42 | 37 | 34 | 31 | 28 | 26 | 21 | 19 | 18 |
| 5   | 64  | 53  | 45  | 39  | 57 | 48 | 41 | 36 | 37 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 15 |
| 6   | 59  | 47  | 40  | 34  | 52 | 43 | 36 | 31 | 33 | 29 | 25 | 25 | 22 | 19 | 17 | 15 | 13 |
| 7   | 54  | 43  | 35  | 30  | 48 | 38 | 32 | 27 | 30 | 25 | 22 | 23 | 19 | 17 | 16 | 14 | 12 |
| 8   | 50  | 39  | 31  | 26  | 45 | 35 | 28 | 24 | 27 | 23 | 19 | 21 | 17 | 15 | 14 | 12 | 11 |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 25 | 21 | 25 | 20 | 17 | 19 | 16 | 13 | 13 | 11 | 10 |
| 10  | 44  | 32  | 25  | 20  | 39 | 29 | 23 | 19 | 23 | 18 | 15 | 17 | 14 | 12 | 12 | 10 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3658 | 3658 | 3658 |
| 5°  | 3658 | 3573 | 3580 |
| 10° | 3628 | 3491 | 3480 |
| 15° | 3580 | 3393 | 3363 |
| 20° | 3516 | 3280 | 3228 |
| 25° | 3446 | 3156 | 3084 |
| 30° | 3364 | 3026 | 2932 |
| 35° | 3274 | 2891 | 2761 |
| 40° | 3183 | 2748 | 2610 |
| 45° | 3083 | 2609 | 2450 |
| 50° | 2973 | 2451 | 2262 |
| 55° | 2865 | 2276 | 2090 |
| 60° | 2735 | 2092 | 1889 |
| 65° | 2580 | 1879 | 1682 |
| 70° | 2423 | 1635 | 1443 |
| 75° | 2158 | 1346 | 1167 |
| 80° | 1839 | 1005 | 859  |
| 85° | 1418 | 595  | 472  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 3083 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.9   | 1.0       |
| 10°-20°   | 152.2  | 2.7       |
| 20°-30°   | 224.7  | 4.0       |
| 30°-40°   | 262.1  | 4.6       |
| 40°-50°   | 263.3  | 4.6       |
| 50°-60°   | 231.1  | 4.1       |
| 60°-70°   | 172.1  | 3.0       |
| 70°-80°   | 98.3   | 1.7       |
| 80°-90°   | 30.7   | 0.5       |
| 90°-100°  | 99.7   | 1.8       |
| 100°-110° | 296.1  | 5.2       |
| 110°-120° | 502.1  | 8.9       |
| 120°-130° | 661.0  | 11.7      |
| 130°-140° | 740.7  | 13.1      |
| 140°-150° | 726.0  | 12.8      |
| 150°-160° | 609.8  | 10.8      |
| 160°-170° | 405.4  | 7.1       |
| 170°-180° | 141.9  | 2.5       |
| 0°-30°    | 430.7  | 7.6       |
| 0°-40°    | 692.8  | 12.2      |
| 0°-60°    | 1187.2 | 20.9      |
| 0°-90°    | 1488.3 | 26.2      |
| 90°-120°  | 897.8  | 15.8      |
| 90°-150°  | 3025.6 | 53.4      |
| 90°-180°  | 4183.0 | 73.8      |
| 0°-180°   | 5671.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 571  | 571   | 571  | 571   | 571  |      |
| 5°   | 570  | 569   | 565  | 569   | 568  | 54   |
| 15°  | 543  | 542   | 537  | 539   | 539  | 153  |
| 25°  | 493  | 491   | 485  | 486   | 485  | 227  |
| 35°  | 426  | 424   | 418  | 416   | 412  | 266  |
| 45°  | 349  | 347   | 342  | 336   | 335  | 269  |
| 55°  | 266  | 264   | 258  | 254   | 251  | 237  |
| 65°  | 179  | 178   | 173  | 169   | 168  | 178  |
| 75°  | 95   | 94    | 92   | 91    | 89   | 101  |
| 85°  | 25   | 25    | 25   | 25    | 24   | 27   |
| 90°  | 1    | 10    | 19   | 24    | 28   | 7    |
| 95°  | 76   | 78    | 90   | 98    | 100  | 79   |
| 105° | 266  | 272   | 279  | 286   | 289  | 284  |
| 115° | 503  | 507   | 510  | 508   | 507  | 497  |
| 125° | 734  | 741   | 742  | 739   | 738  | 657  |
| 135° | 954  | 961   | 962  | 962   | 958  | 735  |
| 145° | 1156 | 1160  | 1164 | 1164  | 1160 | 723  |
| 155° | 1323 | 1323  | 1324 | 1328  | 1323 | 609  |
| 165° | 1438 | 1436  | 1437 | 1442  | 1434 | 406  |
| 175° | 1495 | 1490  | 1490 | 1498  | 1489 | 142  |
| 180° | 1499 | 1499  | 1499 | 1499  | 1499 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 570.9 | 570.9 | 570.9 | 570.9 | 570.9 |
| 2.5°   | 572.7 | 571.4 | 566.9 | 571.4 | 570.9 |
| 5°     | 570.0 | 569.1 | 564.6 | 568.7 | 568.2 |
| 7.5°   | 566.0 | 565.1 | 560.1 | 564.2 | 563.7 |
| 10°    | 560.1 | 559.2 | 554.2 | 557.8 | 557.4 |
| 12.5°  | 552.9 | 551.1 | 546.5 | 549.3 | 549.3 |
| 15°    | 543.4 | 542.0 | 537.1 | 539.3 | 539.3 |
| 17.5°  | 533.4 | 531.2 | 526.2 | 528.9 | 526.7 |
| 20°    | 520.3 | 519.4 | 513.6 | 516.7 | 514.5 |
| 22.5°  | 507.2 | 505.4 | 500.0 | 501.8 | 500.5 |
| 25°    | 493.2 | 491.0 | 485.1 | 486.0 | 484.7 |
| 27.5°  | 477.0 | 475.6 | 469.8 | 470.2 | 468.9 |
| 30°    | 461.2 | 459.8 | 453.0 | 452.1 | 450.8 |
| 32.5°  | 444.0 | 441.8 | 435.9 | 434.1 | 431.4 |
| 35°    | 425.9 | 424.1 | 417.8 | 415.6 | 411.9 |
| 37.5°  | 407.4 | 405.2 | 399.3 | 396.1 | 393.9 |
| 40°    | 388.5 | 386.2 | 379.9 | 375.8 | 374.4 |
| 42.5°  | 368.1 | 366.3 | 360.0 | 356.4 | 354.1 |
| 45°    | 348.7 | 346.9 | 341.5 | 336.1 | 334.7 |
| 47.5°  | 327.5 | 327.9 | 321.2 | 315.7 | 312.6 |
| 50°    | 307.1 | 305.8 | 300.4 | 294.5 | 291.3 |
| 52.5°  | 286.4 | 285.5 | 279.6 | 274.6 | 271.0 |
| 55°    | 265.6 | 264.2 | 257.9 | 253.8 | 250.7 |
| 57.5°  | 243.5 | 243.0 | 237.6 | 232.2 | 230.8 |
| 60°    | 222.7 | 220.9 | 215.9 | 211.4 | 208.2 |
| 62.5°  | 201.0 | 199.6 | 195.6 | 190.6 | 188.4 |
| 65°    | 179.3 | 178.4 | 173.4 | 169.4 | 167.6 |
| 67.5°  | 158.1 | 156.3 | 152.7 | 149.1 | 148.2 |
| 70°    | 138.2 | 136.0 | 131.9 | 129.2 | 127.4 |
| 72.5°  | 116.5 | 115.2 | 112.9 | 109.8 | 108.0 |
| 75°    | 95.3  | 94.4  | 92.1  | 90.8  | 89.0  |
| 77.5°  | 75.4  | 75.0  | 73.6  | 72.7  | 71.4  |
| 80°    | 56.9  | 56.9  | 56.0  | 55.6  | 54.7  |
| 82.5°  | 40.7  | 39.7  | 39.7  | 38.8  | 38.8  |
| 85°    | 24.8  | 25.3  | 25.3  | 24.8  | 23.9  |
| 87.5°  | 12.2  | 12.2  | 11.7  | 11.7  | 10.8  |
| 90°    | 1.2   | 10.5  | 18.7  | 24.5  | 28.0  |
| 92.5°  | 35.0  | 40.8  | 51.3  | 59.5  | 61.8  |
| 95°    | 75.8  | 78.1  | 89.8  | 98.0  | 100.3 |
| 97.5°  | 116.6 | 117.8 | 134.1 | 141.1 | 142.3 |
| 100°   | 163.3 | 163.3 | 178.4 | 188.9 | 191.3 |
| 102.5° | 213.4 | 219.3 | 225.1 | 236.8 | 240.3 |
| 105°   | 265.9 | 271.7 | 278.7 | 285.7 | 289.2 |
| 107.5° | 323.1 | 328.9 | 334.7 | 338.2 | 338.2 |
| 110°   | 382.5 | 388.4 | 391.9 | 395.4 | 394.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 443.2  | 445.5  | 450.2  | 451.4  | 449.0  |
| 115°   | 502.7  | 507.3  | 509.7  | 508.5  | 507.3  |
| 117.5° | 563.3  | 564.5  | 566.8  | 568.0  | 563.3  |
| 120°   | 619.3  | 625.1  | 626.3  | 626.3  | 621.6  |
| 122.5° | 679.9  | 681.1  | 684.6  | 683.4  | 679.9  |
| 125°   | 733.6  | 740.6  | 741.8  | 739.4  | 738.3  |
| 127.5° | 793.1  | 796.6  | 797.7  | 796.6  | 794.2  |
| 130°   | 845.6  | 851.4  | 853.7  | 852.6  | 850.2  |
| 132.5° | 898.0  | 908.5  | 907.4  | 906.2  | 902.7  |
| 135°   | 954.0  | 961.0  | 962.2  | 962.2  | 957.5  |
| 137.5° | 1006.5 | 1013.5 | 1015.8 | 1017.0 | 1011.2 |
| 140°   | 1056.6 | 1062.5 | 1066.0 | 1068.3 | 1062.5 |
| 142.5° | 1106.8 | 1111.5 | 1116.1 | 1117.3 | 1111.5 |
| 145°   | 1155.8 | 1160.4 | 1163.9 | 1163.9 | 1160.4 |
| 147.5° | 1201.3 | 1204.8 | 1207.1 | 1210.6 | 1201.3 |
| 150°   | 1246.8 | 1245.6 | 1250.3 | 1250.3 | 1247.9 |
| 152.5° | 1284.1 | 1286.4 | 1287.6 | 1291.1 | 1286.4 |
| 155°   | 1322.6 | 1322.6 | 1323.7 | 1328.4 | 1322.6 |
| 157.5° | 1357.6 | 1355.2 | 1356.4 | 1361.0 | 1352.9 |
| 160°   | 1387.9 | 1384.4 | 1385.5 | 1390.2 | 1384.4 |
| 162.5° | 1414.7 | 1412.4 | 1412.4 | 1418.2 | 1411.2 |
| 165°   | 1438.0 | 1435.7 | 1436.9 | 1441.5 | 1434.5 |
| 167.5° | 1459.0 | 1454.4 | 1454.4 | 1461.3 | 1454.4 |
| 170°   | 1475.3 | 1470.7 | 1470.7 | 1477.7 | 1469.5 |
| 172.5° | 1487.0 | 1482.3 | 1482.3 | 1489.3 | 1482.3 |
| 175°   | 1495.2 | 1490.5 | 1490.5 | 1497.5 | 1489.3 |
| 177.5° | 1501.0 | 1496.3 | 1495.2 | 1502.2 | 1494.0 |
| 180°   | 1498.7 | 1498.7 | 1498.7 | 1498.7 | 1498.7 |

(END OF REPORT)