

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: P1027754

Luminaire Tested: S125DIP-B375D1090UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1027754  
REPORT IS A COMBINATION OF REPORTS P1001825 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B375D1090UB27-4F0-XX-W2A-F  
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

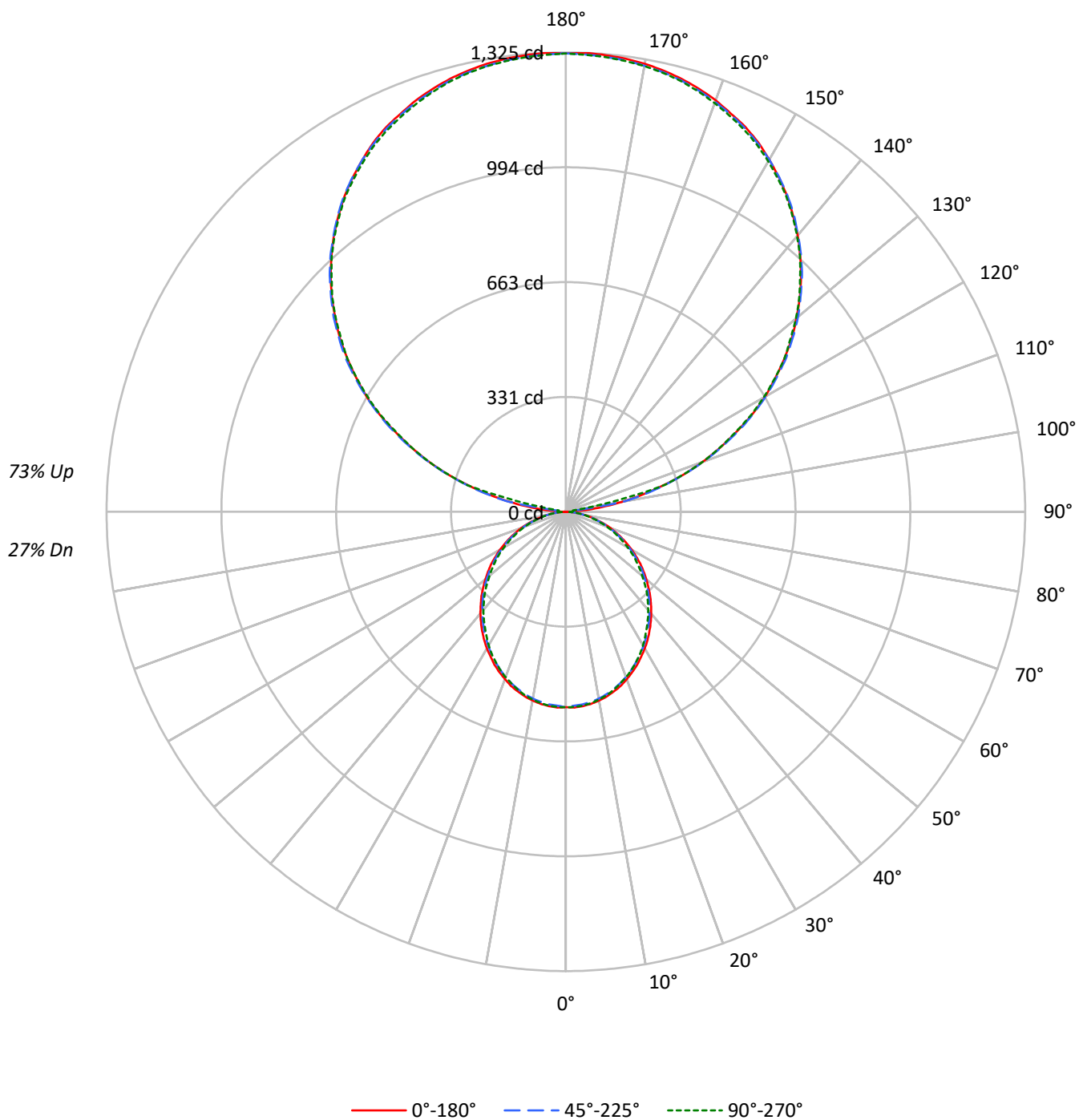
Lumens per Lamp: N/A  
Luminaire Lumens: 5530.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 41.5  
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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 |
| 1   | 93  | 88  | 85  | 81  | 82 | 79 | 76 | 73 | 61 | 59 | 57 | 45 | 44 | 43 | 30 | 30 | 29 |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 60 | 54 | 50 | 47 | 40 | 38 | 36 | 27 | 26 | 24 |
| 3   | 77  | 68  | 61  | 55  | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 35 | 32 | 30 | 24 | 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 | 16 |
| 6   | 59  | 47  | 40  | 34  | 52 | 43 | 36 | 31 | 34 | 29 | 25 | 25 | 22 | 19 | 17 | 15 | 14 |
| 7   | 54  | 43  | 35  | 30  | 48 | 38 | 32 | 27 | 30 | 26 | 22 | 23 | 19 | 17 | 16 | 14 | 12 |
| 8   | 50  | 39  | 31  | 26  | 45 | 35 | 28 | 24 | 28 | 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 | 19 | 15 | 18 | 14 | 12 | 12 | 10 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3611 | 3611 | 3611 |
| 5°  | 3611 | 3528 | 3534 |
| 10° | 3581 | 3446 | 3436 |
| 15° | 3534 | 3350 | 3320 |
| 20° | 3471 | 3238 | 3187 |
| 25° | 3402 | 3115 | 3045 |
| 30° | 3321 | 2988 | 2894 |
| 35° | 3232 | 2855 | 2726 |
| 40° | 3142 | 2713 | 2577 |
| 45° | 3043 | 2575 | 2418 |
| 50° | 2935 | 2419 | 2233 |
| 55° | 2828 | 2247 | 2063 |
| 60° | 2700 | 2065 | 1865 |
| 65° | 2547 | 1855 | 1660 |
| 70° | 2391 | 1614 | 1424 |
| 75° | 2131 | 1330 | 1151 |
| 80° | 1816 | 993  | 848  |
| 85° | 1401 | 588  | 466  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3043 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.2   | 1.0       |
| 10°-20°   | 150.2  | 2.7       |
| 20°-30°   | 221.8  | 4.0       |
| 30°-40°   | 258.8  | 4.7       |
| 40°-50°   | 259.9  | 4.7       |
| 50°-60°   | 228.1  | 4.1       |
| 60°-70°   | 169.9  | 3.1       |
| 70°-80°   | 97.1   | 1.8       |
| 80°-90°   | 30.0   | 0.5       |
| 90°-100°  | 44.9   | 0.8       |
| 100°-110° | 298.4  | 5.4       |
| 110°-120° | 537.3  | 9.7       |
| 120°-130° | 689.7  | 12.5      |
| 130°-140° | 741.8  | 13.4      |
| 140°-150° | 696.2  | 12.6      |
| 150°-160° | 563.1  | 10.2      |
| 160°-170° | 364.2  | 6.6       |
| 170°-180° | 125.6  | 2.3       |
| 0°-30°    | 425.2  | 7.7       |
| 0°-40°    | 684.0  | 12.4      |
| 0°-60°    | 1172.0 | 21.2      |
| 0°-90°    | 1468.9 | 26.6      |
| 90°-120°  | 880.5  | 15.9      |
| 90°-150°  | 3008.1 | 54.4      |
| 90°-180°  | 4061.0 | 73.4      |
| 0°-180°   | 5530.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 564  | 564   | 564  | 564   | 564  |      |
| 5°   | 563  | 562   | 557  | 561   | 561  | 53   |
| 15°  | 536  | 535   | 530  | 532   | 532  | 151  |
| 25°  | 487  | 485   | 479  | 480   | 478  | 224  |
| 35°  | 420  | 419   | 412  | 410   | 407  | 263  |
| 45°  | 344  | 342   | 337  | 332   | 330  | 265  |
| 55°  | 262  | 261   | 255  | 251   | 248  | 234  |
| 65°  | 177  | 176   | 171  | 167   | 165  | 176  |
| 75°  | 94   | 93    | 91   | 90    | 88   | 100  |
| 85°  | 24   | 25    | 25   | 24    | 24   | 27   |
| 90°  | 1    | 9     | 16   | 21    | 24   | 4    |
| 95°  | 56   | 53    | 16   | 21    | 21   | 68   |
| 105° | 288  | 292   | 292  | 292   | 291  | 305  |
| 115° | 541  | 546   | 547  | 543   | 537  | 536  |
| 125° | 769  | 776   | 776  | 772   | 769  | 687  |
| 135° | 959  | 965   | 963  | 961   | 956  | 740  |
| 145° | 1112 | 1114  | 1114 | 1115  | 1109 | 696  |
| 155° | 1225 | 1219  | 1221 | 1224  | 1216 | 564  |
| 165° | 1293 | 1287  | 1288 | 1294  | 1286 | 365  |
| 175° | 1322 | 1316  | 1317 | 1325  | 1316 | 126  |
| 180° | 1322 | 1322  | 1322 | 1322  | 1322 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 |
| 2.5°   | 565.4 | 564.1 | 559.6 | 564.1 | 563.6 |
| 5°     | 562.7 | 561.9 | 557.4 | 561.4 | 561.0 |
| 7.5°   | 558.7 | 557.8 | 552.9 | 556.9 | 556.5 |
| 10°    | 552.9 | 552.0 | 547.1 | 550.7 | 550.3 |
| 12.5°  | 545.8 | 544.0 | 539.6 | 542.2 | 542.2 |
| 15°    | 536.4 | 535.1 | 530.2 | 532.4 | 532.4 |
| 17.5°  | 526.6 | 524.4 | 519.5 | 522.2 | 519.9 |
| 20°    | 513.7 | 512.8 | 507.0 | 510.1 | 507.9 |
| 22.5°  | 500.8 | 499.0 | 493.6 | 495.4 | 494.1 |
| 25°    | 486.9 | 484.7 | 478.9 | 479.8 | 478.5 |
| 27.5°  | 470.9 | 469.5 | 463.7 | 464.2 | 462.9 |
| 30°    | 455.3 | 453.9 | 447.3 | 446.4 | 445.0 |
| 32.5°  | 438.3 | 436.1 | 430.3 | 428.5 | 425.8 |
| 35°    | 420.5 | 418.7 | 412.5 | 410.2 | 406.7 |
| 37.5°  | 402.2 | 400.0 | 394.2 | 391.1 | 388.8 |
| 40°    | 383.5 | 381.3 | 375.0 | 371.0 | 369.7 |
| 42.5°  | 363.4 | 361.6 | 355.4 | 351.8 | 349.6 |
| 45°    | 344.2 | 342.5 | 337.1 | 331.8 | 330.4 |
| 47.5°  | 323.3 | 323.7 | 317.0 | 311.7 | 308.6 |
| 50°    | 303.2 | 301.9 | 296.5 | 290.7 | 287.6 |
| 52.5°  | 282.7 | 281.8 | 276.0 | 271.1 | 267.5 |
| 55°    | 262.2 | 260.9 | 254.6 | 250.6 | 247.5 |
| 57.5°  | 240.3 | 239.9 | 234.6 | 229.2 | 227.9 |
| 60°    | 219.8 | 218.1 | 213.1 | 208.7 | 205.6 |
| 62.5°  | 198.4 | 197.1 | 193.1 | 188.2 | 185.9 |
| 65°    | 177.0 | 176.1 | 171.2 | 167.2 | 165.4 |
| 67.5°  | 156.1 | 154.3 | 150.7 | 147.2 | 146.3 |
| 70°    | 136.4 | 134.2 | 130.2 | 127.5 | 125.7 |
| 72.5°  | 115.0 | 113.7 | 111.5 | 108.4 | 106.6 |
| 75°    | 94.1  | 93.2  | 91.0  | 89.6  | 87.8  |
| 77.5°  | 74.5  | 74.0  | 72.7  | 71.8  | 70.5  |
| 80°    | 56.2  | 56.2  | 55.3  | 54.8  | 54.0  |
| 82.5°  | 40.1  | 39.2  | 39.2  | 38.3  | 38.3  |
| 85°    | 24.5  | 25.0  | 25.0  | 24.5  | 23.6  |
| 87.5°  | 12.0  | 12.0  | 11.6  | 11.6  | 10.7  |
| 90°    | 1.0   | 8.8   | 15.7  | 20.6  | 23.5  |
| 92.5°  | 18.6  | 9.8   | 15.7  | 20.6  | 21.6  |
| 95°    | 55.9  | 52.9  | 15.7  | 20.6  | 20.6  |
| 97.5°  | 104.9 | 110.7 | 17.6  | 19.6  | 20.6  |
| 100°   | 163.7 | 166.6 | 170.5 | 24.5  | 20.6  |
| 102.5° | 223.4 | 227.4 | 229.3 | 231.3 | 149.0 |
| 105°   | 288.1 | 292.0 | 292.0 | 292.0 | 291.1 |
| 107.5° | 354.8 | 354.8 | 356.7 | 357.7 | 353.8 |
| 110°   | 419.4 | 419.4 | 421.4 | 418.5 | 419.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 480.2  | 483.1  | 484.1  | 480.2  | 478.2  |
| 115°   | 541.0  | 545.9  | 546.8  | 542.9  | 537.0  |
| 117.5° | 604.7  | 604.7  | 608.6  | 602.7  | 600.8  |
| 120°   | 663.5  | 662.5  | 665.4  | 663.5  | 658.6  |
| 122.5° | 715.4  | 720.3  | 721.3  | 719.3  | 713.5  |
| 125°   | 769.3  | 776.2  | 776.2  | 772.3  | 769.3  |
| 127.5° | 821.3  | 826.2  | 825.2  | 823.2  | 815.4  |
| 130°   | 868.3  | 873.2  | 874.2  | 871.2  | 866.3  |
| 132.5° | 915.3  | 921.2  | 918.3  | 918.3  | 913.4  |
| 135°   | 959.4  | 965.3  | 963.4  | 961.4  | 955.5  |
| 137.5° | 1000.6 | 1006.5 | 1004.5 | 1004.5 | 999.6  |
| 140°   | 1040.8 | 1042.7 | 1041.8 | 1043.7 | 1037.8 |
| 142.5° | 1077.0 | 1078.0 | 1080.0 | 1080.0 | 1074.1 |
| 145°   | 1112.3 | 1114.3 | 1114.3 | 1115.3 | 1109.4 |
| 147.5° | 1143.7 | 1143.7 | 1144.7 | 1145.6 | 1138.8 |
| 150°   | 1173.1 | 1171.1 | 1173.1 | 1175.0 | 1167.2 |
| 152.5° | 1201.5 | 1196.6 | 1198.6 | 1200.5 | 1193.7 |
| 155°   | 1225.0 | 1219.1 | 1221.1 | 1224.0 | 1216.2 |
| 157.5° | 1243.6 | 1240.7 | 1240.7 | 1243.6 | 1235.8 |
| 160°   | 1263.2 | 1257.4 | 1258.3 | 1262.3 | 1254.4 |
| 162.5° | 1278.9 | 1273.0 | 1274.0 | 1279.9 | 1271.1 |
| 165°   | 1292.6 | 1286.8 | 1287.7 | 1293.6 | 1285.8 |
| 167.5° | 1303.4 | 1297.5 | 1298.5 | 1305.4 | 1296.6 |
| 170°   | 1312.2 | 1305.4 | 1306.4 | 1314.2 | 1305.4 |
| 172.5° | 1318.1 | 1311.3 | 1313.2 | 1320.1 | 1311.3 |
| 175°   | 1322.0 | 1316.2 | 1317.1 | 1325.0 | 1316.2 |
| 177.5° | 1325.0 | 1319.1 | 1320.1 | 1326.9 | 1319.1 |
| 180°   | 1322.0 | 1322.0 | 1322.0 | 1322.0 | 1322.0 |

(END OF REPORT)