

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: P1035248

Luminaire Tested: S125DIW-B375D1050UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1035248  
REPORT IS A COMBINATION OF REPORTS P1003422 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B375D1050UB35-4F0-XX-W2A-D1  
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

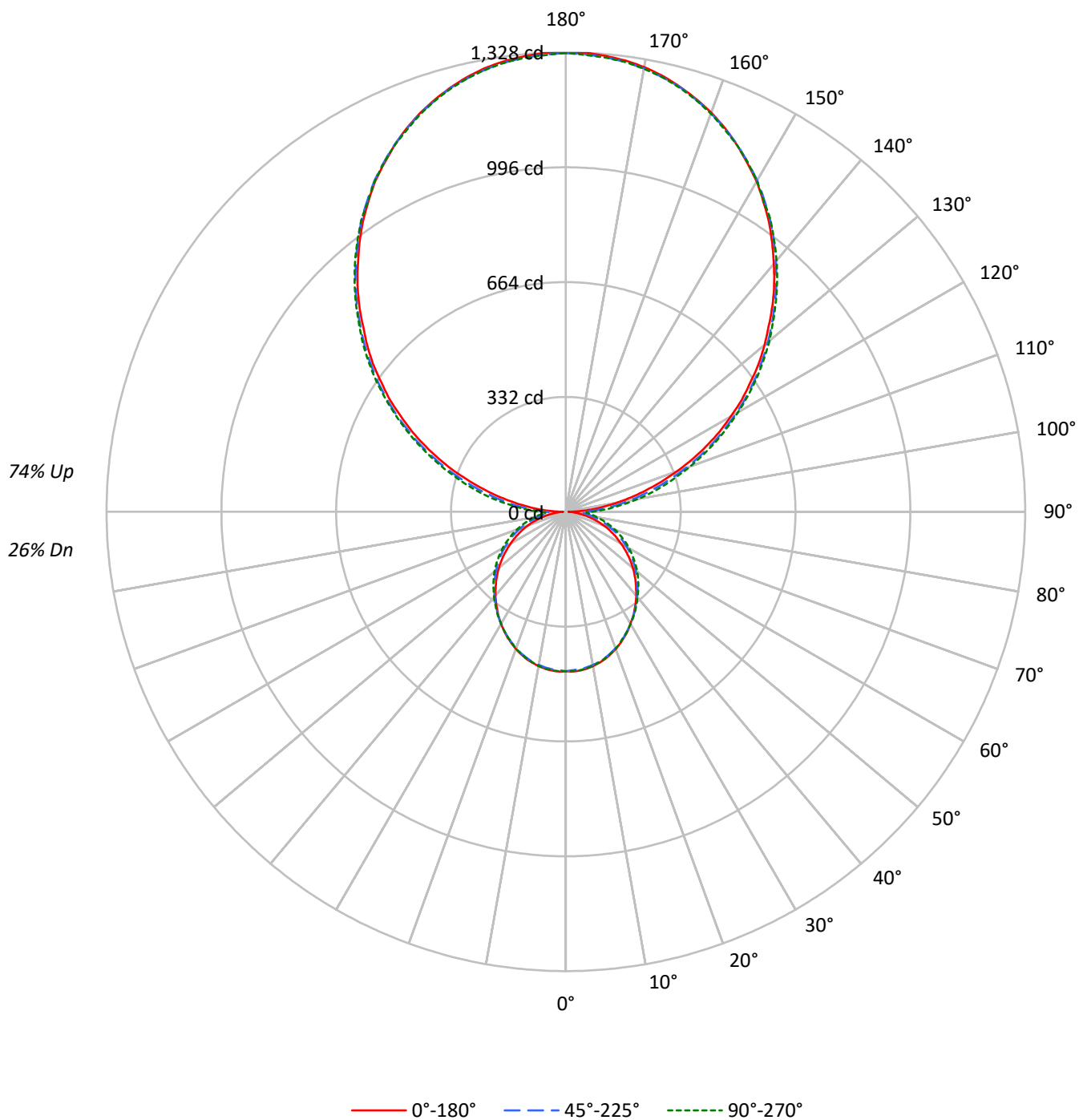
Lumens per Lamp: N/A  
Luminaire Lumens: 5131.0 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 44.5  
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



TEST NUMBER: P1035248

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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  | 80  | 82 | 78 | 75 | 72 | 61 | 58 | 56 | 45 | 43 | 42 | 30 | 29 | 28 |
| 2   | 84  | 76  | 70  | 65  | 74 | 68 | 63 | 59 | 53 | 49 | 46 | 39 | 37 | 35 | 26 | 24 | 23 |
| 3   | 76  | 67  | 60  | 54  | 68 | 60 | 54 | 49 | 46 | 42 | 39 | 34 | 31 | 29 | 23 | 21 | 20 |
| 4   | 69  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 41 | 36 | 33 | 30 | 27 | 25 | 20 | 18 | 17 |
| 5   | 64  | 52  | 44  | 39  | 56 | 47 | 40 | 35 | 37 | 32 | 28 | 27 | 24 | 21 | 18 | 16 | 15 |
| 6   | 58  | 47  | 39  | 33  | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 24 | 21 | 18 | 16 | 14 | 13 |
| 7   | 54  | 42  | 34  | 29  | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 22 | 19 | 16 | 15 | 13 | 11 |
| 8   | 50  | 38  | 30  | 25  | 44 | 34 | 28 | 23 | 27 | 22 | 19 | 20 | 17 | 14 | 14 | 12 | 10 |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 25 | 20 | 25 | 20 | 17 | 18 | 15 | 13 | 13 | 11 | 9  |
| 10  | 43  | 31  | 25  | 20  | 38 | 28 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 11 | 12 | 10 | 8  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2954 | 2954 | 2954 |
| 5°  | 2958 | 2892 | 2899 |
| 10° | 2936 | 2833 | 2825 |
| 15° | 2900 | 2764 | 2734 |
| 20° | 2852 | 2681 | 2643 |
| 25° | 2795 | 2593 | 2534 |
| 30° | 2725 | 2497 | 2434 |
| 35° | 2661 | 2408 | 2342 |
| 40° | 2595 | 2315 | 2250 |
| 45° | 2521 | 2234 | 2166 |
| 50° | 2450 | 2146 | 2092 |
| 55° | 2364 | 2062 | 2004 |
| 60° | 2270 | 1966 | 1915 |
| 65° | 2171 | 1866 | 1815 |
| 70° | 2060 | 1731 | 1709 |
| 75° | 1884 | 1598 | 1582 |
| 80° | 1651 | 1436 | 1440 |
| 85° | 1424 | 1307 | 1365 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.6   | 0.9       |
| 10°-20°   | 123.8  | 2.4       |
| 20°-30°   | 184.1  | 3.6       |
| 30°-40°   | 218.1  | 4.3       |
| 40°-50°   | 225.5  | 4.4       |
| 50°-60°   | 207.7  | 4.0       |
| 60°-70°   | 167.9  | 3.3       |
| 70°-80°   | 112.3  | 2.2       |
| 80°-90°   | 60.1   | 1.2       |
| 90°-100°  | 120.9  | 2.4       |
| 100°-110° | 286.1  | 5.6       |
| 110°-120° | 460.4  | 9.0       |
| 120°-130° | 594.0  | 11.6      |
| 130°-140° | 659.4  | 12.9      |
| 140°-150° | 643.2  | 12.5      |
| 150°-160° | 539.6  | 10.5      |
| 160°-170° | 358.7  | 7.0       |
| 170°-180° | 125.5  | 2.4       |
| 0°-30°    | 351.6  | 6.9       |
| 0°-40°    | 569.7  | 11.1      |
| 0°-60°    | 1002.8 | 19.5      |
| 0°-90°    | 1343.2 | 26.2      |
| 90°-120°  | 867.4  | 16.9      |
| 90°-150°  | 2764.0 | 53.9      |
| 90°-180°  | 3788.0 | 73.8      |
| 0°-180°   | 5131.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 461  | 461   | 461  | 461   | 461  |      |
| 5°   | 461  | 460   | 457  | 460   | 460  | 44   |
| 15°  | 440  | 441   | 438  | 440   | 438  | 124  |
| 25°  | 400  | 401   | 399  | 400   | 398  | 184  |
| 35°  | 346  | 349   | 348  | 349   | 349  | 217  |
| 45°  | 285  | 290   | 292  | 296   | 296  | 220  |
| 55°  | 219  | 226   | 234  | 239   | 240  | 196  |
| 65°  | 151  | 161   | 172  | 179   | 181  | 150  |
| 75°  | 83   | 95    | 109  | 118   | 121  | 88   |
| 85°  | 25   | 40    | 56   | 66    | 69   | 26   |
| 90°  | 8    | 31    | 54   | 69    | 75   | 10   |
| 95°  | 73   | 87    | 112  | 130   | 135  | 75   |
| 105° | 239  | 252   | 272  | 287   | 293  | 255  |
| 115° | 448  | 455   | 469  | 476   | 477  | 443  |
| 125° | 651  | 657   | 667  | 672   | 673  | 583  |
| 135° | 845  | 851   | 855  | 861   | 859  | 651  |
| 145° | 1023 | 1027  | 1030 | 1032  | 1031 | 640  |
| 155° | 1170 | 1170  | 1171 | 1175  | 1170 | 539  |
| 165° | 1272 | 1270  | 1271 | 1276  | 1269 | 359  |
| 175° | 1323 | 1319  | 1319 | 1325  | 1318 | 126  |
| 180° | 1326 | 1326  | 1326 | 1326  | 1326 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 461.0 | 461.0 | 461.0 | 461.0 | 461.0 |
| 2.5°   | 462.3 | 461.4 | 458.3 | 461.4 | 461.0 |
| 5°     | 461.0 | 460.1 | 456.9 | 460.5 | 460.1 |
| 7.5°   | 457.8 | 457.4 | 454.2 | 457.4 | 456.9 |
| 10°    | 453.3 | 453.3 | 449.7 | 452.8 | 452.4 |
| 12.5°  | 447.0 | 447.4 | 444.7 | 447.0 | 445.6 |
| 15°    | 440.2 | 440.6 | 437.5 | 440.2 | 438.4 |
| 17.5°  | 431.6 | 432.5 | 429.3 | 431.6 | 430.2 |
| 20°    | 422.1 | 423.0 | 419.8 | 421.2 | 421.2 |
| 22.5°  | 411.3 | 413.1 | 409.4 | 411.3 | 409.9 |
| 25°    | 400.0 | 401.3 | 398.6 | 400.4 | 398.2 |
| 27.5°  | 387.8 | 389.6 | 386.4 | 387.8 | 386.9 |
| 30°    | 373.7 | 376.5 | 373.7 | 374.6 | 374.2 |
| 32.5°  | 361.1 | 363.4 | 361.5 | 362.4 | 362.0 |
| 35°    | 346.2 | 349.3 | 348.0 | 349.3 | 349.3 |
| 37.5°  | 331.7 | 334.4 | 334.0 | 335.8 | 335.3 |
| 40°    | 316.8 | 320.4 | 320.0 | 321.8 | 322.7 |
| 42.5°  | 300.5 | 305.5 | 306.9 | 309.1 | 309.1 |
| 45°    | 285.2 | 290.1 | 292.4 | 295.6 | 296.0 |
| 47.5°  | 269.4 | 273.9 | 277.5 | 282.0 | 282.9 |
| 50°    | 253.1 | 258.1 | 263.0 | 268.0 | 269.4 |
| 52.5°  | 235.9 | 242.2 | 248.6 | 254.0 | 254.9 |
| 55°    | 219.2 | 226.4 | 233.6 | 238.6 | 240.4 |
| 57.5°  | 202.0 | 210.6 | 218.7 | 224.2 | 225.5 |
| 60°    | 184.8 | 193.9 | 202.9 | 209.7 | 211.1 |
| 62.5°  | 168.1 | 177.2 | 187.1 | 194.8 | 196.6 |
| 65°    | 150.9 | 161.3 | 172.2 | 179.0 | 180.8 |
| 67.5°  | 135.1 | 145.1 | 155.9 | 164.1 | 166.3 |
| 70°    | 117.5 | 127.9 | 139.6 | 148.2 | 150.9 |
| 72.5°  | 100.3 | 111.2 | 124.3 | 133.8 | 135.6 |
| 75°    | 83.2  | 94.9  | 109.4 | 118.4 | 120.7 |
| 77.5°  | 66.4  | 80.0  | 93.5  | 103.5 | 105.3 |
| 80°    | 51.1  | 64.6  | 80.0  | 89.9  | 91.7  |
| 82.5°  | 37.1  | 51.5  | 67.3  | 76.8  | 80.4  |
| 85°    | 24.9  | 39.8  | 55.6  | 65.5  | 69.1  |
| 87.5°  | 15.8  | 30.3  | 45.6  | 56.0  | 59.2  |
| 90°    | 8.2   | 31.0  | 53.6  | 69.2  | 75.4  |
| 92.5°  | 37.3  | 55.5  | 80.7  | 97.8  | 103.1 |
| 95°    | 73.0  | 86.7  | 112.5 | 129.6 | 134.8 |
| 97.5°  | 108.6 | 120.5 | 149.9 | 165.6 | 169.7 |
| 100°   | 149.5 | 159.0 | 186.8 | 205.6 | 210.3 |
| 102.5° | 193.3 | 207.1 | 226.3 | 245.7 | 251.5 |
| 105°   | 239.4 | 251.7 | 271.5 | 286.7 | 293.0 |
| 107.5° | 289.5 | 300.9 | 319.2 | 331.4 | 334.1 |
| 110°   | 341.7 | 352.2 | 367.9 | 379.6 | 381.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 395.3  | 401.4  | 417.7  | 427.0  | 428.0  |
| 115°   | 447.5  | 454.8  | 468.6  | 475.7  | 477.4  |
| 117.5° | 500.7  | 504.0  | 517.3  | 526.1  | 525.1  |
| 120°   | 550.3  | 556.7  | 568.2  | 575.9  | 574.4  |
| 122.5° | 603.4  | 605.0  | 618.0  | 624.1  | 623.7  |
| 125°   | 650.9  | 656.7  | 666.7  | 671.9  | 673.1  |
| 127.5° | 703.1  | 705.7  | 714.5  | 720.2  | 720.9  |
| 130°   | 749.6  | 754.2  | 762.6  | 768.0  | 768.1  |
| 132.5° | 795.5  | 804.8  | 808.3  | 813.6  | 812.3  |
| 135°   | 845.0  | 850.8  | 855.0  | 860.9  | 859.0  |
| 137.5° | 891.5  | 897.3  | 901.1  | 907.6  | 904.2  |
| 140°   | 935.5  | 940.6  | 944.1  | 951.2  | 947.8  |
| 142.5° | 979.8  | 983.5  | 987.6  | 992.7  | 989.4  |
| 145°   | 1023.2 | 1026.8 | 1029.9 | 1032.2 | 1030.9 |
| 147.5° | 1062.9 | 1066.0 | 1068.1 | 1072.1 | 1064.7 |
| 150°   | 1103.2 | 1102.1 | 1106.3 | 1106.3 | 1104.7 |
| 152.5° | 1136.2 | 1138.2 | 1139.3 | 1142.4 | 1138.2 |
| 155°   | 1170.2 | 1170.2 | 1171.3 | 1175.4 | 1170.2 |
| 157.5° | 1201.2 | 1199.1 | 1200.2 | 1204.3 | 1197.1 |
| 160°   | 1228.0 | 1224.9 | 1226.0 | 1230.1 | 1224.9 |
| 162.5° | 1251.8 | 1249.7 | 1249.7 | 1254.9 | 1248.7 |
| 165°   | 1272.4 | 1270.3 | 1271.4 | 1275.5 | 1269.3 |
| 167.5° | 1291.0 | 1286.8 | 1286.8 | 1293.0 | 1286.8 |
| 170°   | 1305.4 | 1301.3 | 1301.3 | 1307.5 | 1300.3 |
| 172.5° | 1315.7 | 1311.6 | 1311.6 | 1317.8 | 1311.6 |
| 175°   | 1323.0 | 1318.8 | 1318.8 | 1325.0 | 1317.8 |
| 177.5° | 1328.1 | 1324.0 | 1323.0 | 1329.2 | 1321.9 |
| 180°   | 1326.1 | 1326.1 | 1326.1 | 1326.1 | 1326.1 |

(END OF REPORT)