

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: P1026835

Luminaire Tested: S125DIP-B375D1090UB2750-4F0-XX-W2A-D\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1026835  
REPORT IS A COMBINATION OF REPORTS P1001834 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIP-B375D1090UB2750-4F0-XX-W2A-D\_3000K  
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

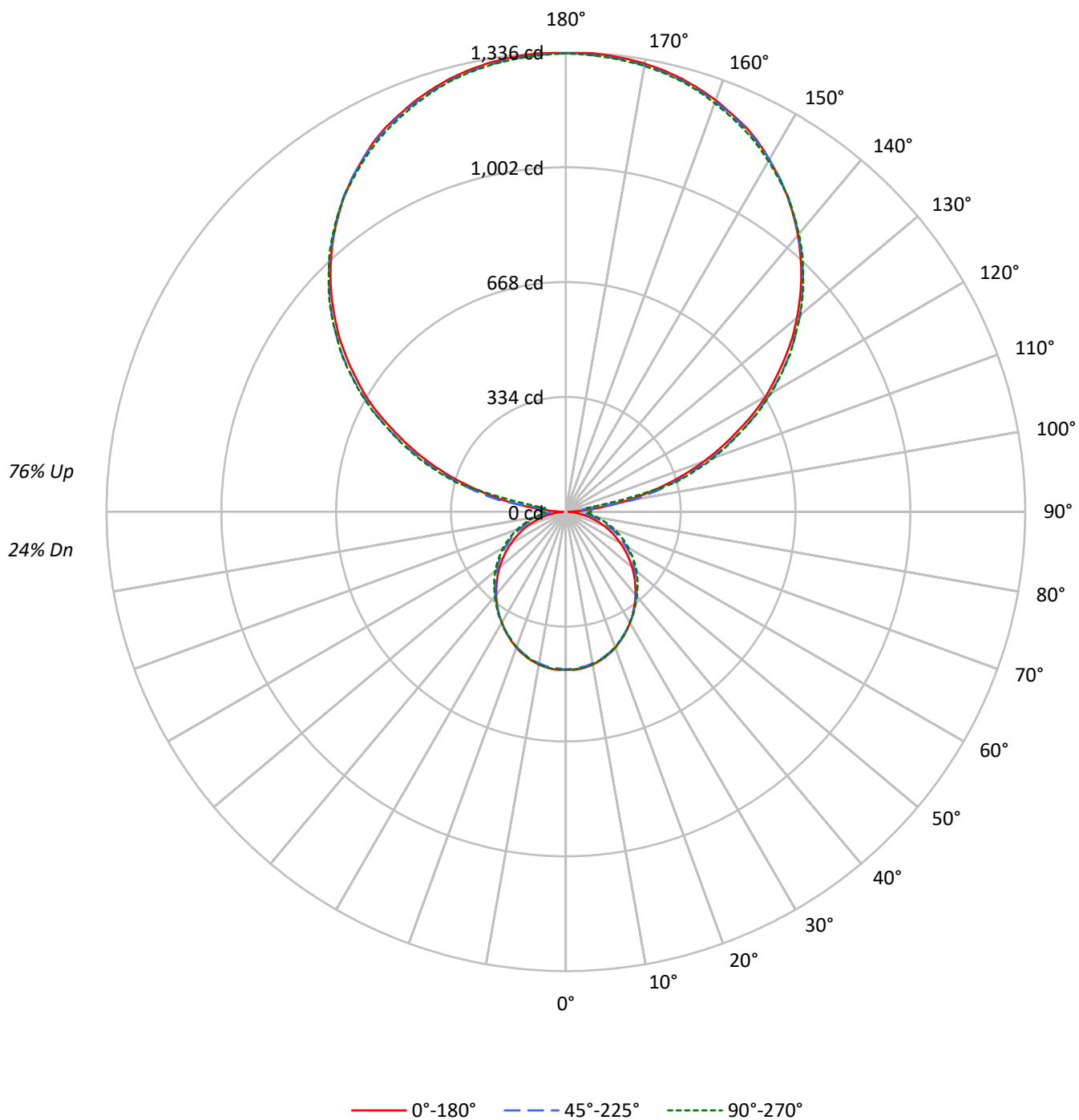
Lumens per Lamp: N/A  
Luminaire Lumens: 5520.2 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 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   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 50 | 50 | 50 | 32 | 32 | 32 |
| 1   | 92  | 87  | 83  | 80  | 81 | 78 | 75 | 72 | 60 | 58 | 56 | 43 | 42 | 41 | 28 | 27 | 27 |
| 2   | 83  | 76  | 70  | 65  | 74 | 68 | 63 | 58 | 52 | 49 | 46 | 38 | 36 | 34 | 24 | 23 | 22 |
| 3   | 76  | 67  | 59  | 54  | 67 | 59 | 53 | 49 | 46 | 42 | 38 | 33 | 31 | 28 | 22 | 20 | 19 |
| 4   | 69  | 59  | 51  | 45  | 61 | 52 | 46 | 41 | 41 | 36 | 32 | 29 | 26 | 24 | 19 | 17 | 16 |
| 5   | 63  | 52  | 44  | 38  | 56 | 47 | 40 | 35 | 36 | 31 | 28 | 26 | 23 | 21 | 17 | 15 | 14 |
| 6   | 58  | 47  | 39  | 33  | 51 | 42 | 35 | 30 | 32 | 27 | 24 | 24 | 20 | 18 | 16 | 14 | 12 |
| 7   | 54  | 42  | 34  | 29  | 47 | 37 | 31 | 26 | 29 | 24 | 21 | 21 | 18 | 16 | 14 | 12 | 11 |
| 8   | 50  | 38  | 30  | 25  | 44 | 34 | 27 | 23 | 26 | 22 | 18 | 19 | 16 | 14 | 13 | 11 | 9  |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 25 | 20 | 24 | 20 | 16 | 18 | 15 | 12 | 12 | 10 | 8  |
| 10  | 43  | 31  | 24  | 20  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 16 | 13 | 11 | 11 | 9  | 8  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2941 | 2941 | 2941 |
| 5°  | 2946 | 2879 | 2886 |
| 10° | 2924 | 2821 | 2813 |
| 15° | 2888 | 2752 | 2722 |
| 20° | 2840 | 2670 | 2632 |
| 25° | 2783 | 2582 | 2523 |
| 30° | 2714 | 2487 | 2423 |
| 35° | 2650 | 2398 | 2332 |
| 40° | 2585 | 2305 | 2240 |
| 45° | 2511 | 2225 | 2157 |
| 50° | 2439 | 2137 | 2082 |
| 55° | 2354 | 2054 | 1996 |
| 60° | 2261 | 1959 | 1907 |
| 65° | 2163 | 1859 | 1806 |
| 70° | 2051 | 1724 | 1702 |
| 75° | 1875 | 1591 | 1576 |
| 80° | 1645 | 1431 | 1435 |
| 85° | 1418 | 1303 | 1361 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.4   | 0.8       |
| 10°-20°   | 123.3  | 2.2       |
| 20°-30°   | 183.4  | 3.3       |
| 30°-40°   | 217.2  | 3.9       |
| 40°-50°   | 224.5  | 4.1       |
| 50°-60°   | 206.8  | 3.7       |
| 60°-70°   | 167.2  | 3.0       |
| 70°-80°   | 111.9  | 2.0       |
| 80°-90°   | 59.8   | 1.1       |
| 90°-100°  | 77.9   | 1.4       |
| 100°-110° | 325.0  | 5.9       |
| 110°-120° | 558.0  | 10.1      |
| 120°-130° | 704.7  | 12.8      |
| 130°-140° | 752.1  | 13.6      |
| 140°-150° | 703.0  | 12.7      |
| 150°-160° | 568.0  | 10.3      |
| 160°-170° | 367.3  | 6.7       |
| 170°-180° | 126.7  | 2.3       |
| 0°-30°    | 350.1  | 6.3       |
| 0°-40°    | 567.3  | 10.3      |
| 0°-60°    | 998.6  | 18.1      |
| 0°-90°    | 1337.5 | 24.2      |
| 90°-120°  | 960.9  | 17.4      |
| 90°-150°  | 3120.7 | 56.5      |
| 90°-180°  | 4183.0 | 75.8      |
| 0°-180°   | 5520.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 459  | 459   | 459  | 459   | 459  |      |
| 5°   | 459  | 458   | 455  | 459   | 458  | 44   |
| 15°  | 438  | 439   | 436  | 438   | 436  | 124  |
| 25°  | 398  | 400   | 397  | 399   | 396  | 183  |
| 35°  | 345  | 348   | 346  | 348   | 348  | 216  |
| 45°  | 284  | 289   | 291  | 294   | 295  | 219  |
| 55°  | 218  | 226   | 233  | 238   | 239  | 195  |
| 65°  | 150  | 161   | 172  | 178   | 180  | 149  |
| 75°  | 83   | 94    | 109  | 118   | 120  | 88   |
| 85°  | 25   | 40    | 55   | 65    | 69   | 26   |
| 90°  | 8    | 30    | 53   | 68    | 74   | 8    |
| 95°  | 62   | 71    | 49   | 64    | 67   | 74   |
| 105° | 295  | 306   | 319  | 328   | 330  | 312  |
| 115° | 548  | 556   | 569  | 573   | 570  | 544  |
| 125° | 778  | 784   | 793  | 796   | 796  | 695  |
| 135° | 969  | 974   | 975  | 979   | 975  | 747  |
| 145° | 1122 | 1124  | 1124 | 1127  | 1123 | 702  |
| 155° | 1236 | 1230  | 1232 | 1235  | 1227 | 569  |
| 165° | 1304 | 1298  | 1299 | 1305  | 1297 | 368  |
| 175° | 1333 | 1328  | 1328 | 1336  | 1328 | 127  |
| 180° | 1333 | 1333  | 1333 | 1333  | 1333 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 459.0 | 459.0 | 459.0 | 459.0 | 459.0 |
| 2.5°   | 460.4 | 459.5 | 456.3 | 459.5 | 459.0 |
| 5°     | 459.0 | 458.1 | 455.0 | 458.6 | 458.1 |
| 7.5°   | 455.9 | 455.4 | 452.3 | 455.4 | 455.0 |
| 10°    | 451.4 | 451.4 | 447.8 | 450.9 | 450.5 |
| 12.5°  | 445.1 | 445.5 | 442.8 | 445.1 | 443.7 |
| 15°    | 438.3 | 438.8 | 435.6 | 438.3 | 436.5 |
| 17.5°  | 429.8 | 430.7 | 427.5 | 429.8 | 428.4 |
| 20°    | 420.3 | 421.2 | 418.1 | 419.4 | 419.4 |
| 22.5°  | 409.5 | 411.3 | 407.7 | 409.5 | 408.2 |
| 25°    | 398.3 | 399.6 | 396.9 | 398.7 | 396.5 |
| 27.5°  | 386.1 | 387.9 | 384.8 | 386.1 | 385.2 |
| 30°    | 372.2 | 374.9 | 372.2 | 373.1 | 372.6 |
| 32.5°  | 359.6 | 361.8 | 360.0 | 360.9 | 360.5 |
| 35°    | 344.7 | 347.9 | 346.5 | 347.9 | 347.9 |
| 37.5°  | 330.3 | 333.0 | 332.6 | 334.4 | 333.9 |
| 40°    | 315.5 | 319.1 | 318.6 | 320.4 | 321.3 |
| 42.5°  | 299.3 | 304.2 | 305.6 | 307.8 | 307.8 |
| 45°    | 284.0 | 288.9 | 291.2 | 294.3 | 294.8 |
| 47.5°  | 268.2 | 272.7 | 276.3 | 280.8 | 281.7 |
| 50°    | 252.0 | 257.0 | 261.9 | 266.9 | 268.2 |
| 52.5°  | 234.9 | 241.2 | 247.5 | 252.9 | 253.8 |
| 55°    | 218.3 | 225.5 | 232.7 | 237.6 | 239.4 |
| 57.5°  | 201.2 | 209.7 | 217.8 | 223.2 | 224.6 |
| 60°    | 184.1 | 193.1 | 202.1 | 208.8 | 210.2 |
| 62.5°  | 167.4 | 176.4 | 186.3 | 194.0 | 195.8 |
| 65°    | 150.3 | 160.7 | 171.5 | 178.2 | 180.0 |
| 67.5°  | 134.6 | 144.5 | 155.3 | 163.4 | 165.6 |
| 70°    | 117.0 | 127.4 | 139.1 | 147.6 | 150.3 |
| 72.5°  | 99.9  | 110.7 | 123.8 | 133.2 | 135.0 |
| 75°    | 82.8  | 94.5  | 108.9 | 117.9 | 120.2 |
| 77.5°  | 66.2  | 79.7  | 93.2  | 103.1 | 104.9 |
| 80°    | 50.9  | 64.4  | 79.7  | 89.6  | 91.4  |
| 82.5°  | 36.9  | 51.3  | 67.1  | 76.5  | 80.1  |
| 85°    | 24.8  | 39.6  | 55.4  | 65.3  | 68.9  |
| 87.5°  | 15.8  | 30.2  | 45.5  | 55.8  | 59.0  |
| 90°    | 8.2   | 30.5  | 52.7  | 68.1  | 74.1  |
| 92.5°  | 25.1  | 29.3  | 50.9  | 65.8  | 69.9  |
| 95°    | 62.2  | 71.0  | 48.7  | 63.6  | 66.7  |
| 97.5°  | 111.2 | 127.9 | 48.9  | 60.3  | 64.5  |
| 100°   | 170.1 | 182.4 | 200.8 | 63.0  | 61.8  |
| 102.5° | 229.9 | 242.4 | 258.3 | 269.3 | 188.9 |
| 105°   | 294.7 | 305.9 | 319.4 | 328.4 | 330.5 |
| 107.5° | 361.4 | 367.7 | 382.8 | 392.8 | 391.5 |
| 110°   | 426.3 | 431.7 | 446.2 | 451.8 | 456.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 487.5  | 494.5  | 507.7  | 511.8  | 513.0  |
| 115°   | 548.3  | 556.5  | 569.2  | 573.3  | 570.1  |
| 117.5° | 612.2  | 614.4  | 629.6  | 631.3  | 632.5  |
| 120°   | 671.5  | 671.8  | 685.2  | 690.8  | 688.5  |
| 122.5° | 723.4  | 728.8  | 739.7  | 744.9  | 741.7  |
| 125°   | 777.7  | 784.3  | 793.3  | 796.5  | 795.7  |
| 127.5° | 829.7  | 834.2  | 840.9  | 845.6  | 840.4  |
| 130°   | 877.2  | 881.6  | 888.9  | 892.2  | 889.6  |
| 132.5° | 924.1  | 930.1  | 931.6  | 937.9  | 934.7  |
| 135°   | 968.6  | 974.1  | 975.3  | 979.2  | 975.4  |
| 137.5° | 1010.1 | 1015.6 | 1015.5 | 1020.9 | 1017.7 |
| 140°   | 1050.2 | 1052.2 | 1051.6 | 1058.6 | 1054.5 |
| 142.5° | 1086.8 | 1087.3 | 1089.3 | 1093.4 | 1089.3 |
| 145°   | 1122.4 | 1123.9 | 1123.9 | 1127.2 | 1123.0 |
| 147.5° | 1153.5 | 1153.5 | 1154.5 | 1156.4 | 1150.4 |
| 150°   | 1183.2 | 1181.2 | 1183.2 | 1185.2 | 1177.8 |
| 152.5° | 1211.9 | 1206.9 | 1208.9 | 1210.9 | 1203.9 |
| 155°   | 1235.6 | 1229.6 | 1231.6 | 1234.6 | 1226.7 |
| 157.5° | 1254.4 | 1251.4 | 1251.4 | 1254.4 | 1246.4 |
| 160°   | 1274.1 | 1268.2 | 1269.2 | 1273.1 | 1265.2 |
| 162.5° | 1289.9 | 1284.0 | 1285.0 | 1290.9 | 1282.0 |
| 165°   | 1303.8 | 1297.8 | 1298.8 | 1304.8 | 1296.9 |
| 167.5° | 1314.7 | 1308.7 | 1309.7 | 1316.6 | 1307.7 |
| 170°   | 1323.5 | 1316.6 | 1317.6 | 1325.5 | 1316.6 |
| 172.5° | 1329.5 | 1322.6 | 1324.5 | 1331.5 | 1322.6 |
| 175°   | 1333.4 | 1327.5 | 1328.5 | 1336.4 | 1327.5 |
| 177.5° | 1336.4 | 1330.5 | 1331.5 | 1338.4 | 1330.5 |
| 180°   | 1333.4 | 1333.4 | 1333.4 | 1333.4 | 1333.4 |

(END OF REPORT)