

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: P1010089

Luminaire Tested: S122RDIP-B485D925UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010089  
REPORT IS A COMBINATION OF REPORTS P988409 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-B485D925UB40-4F0-XX-W2A-F  
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}  
{m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

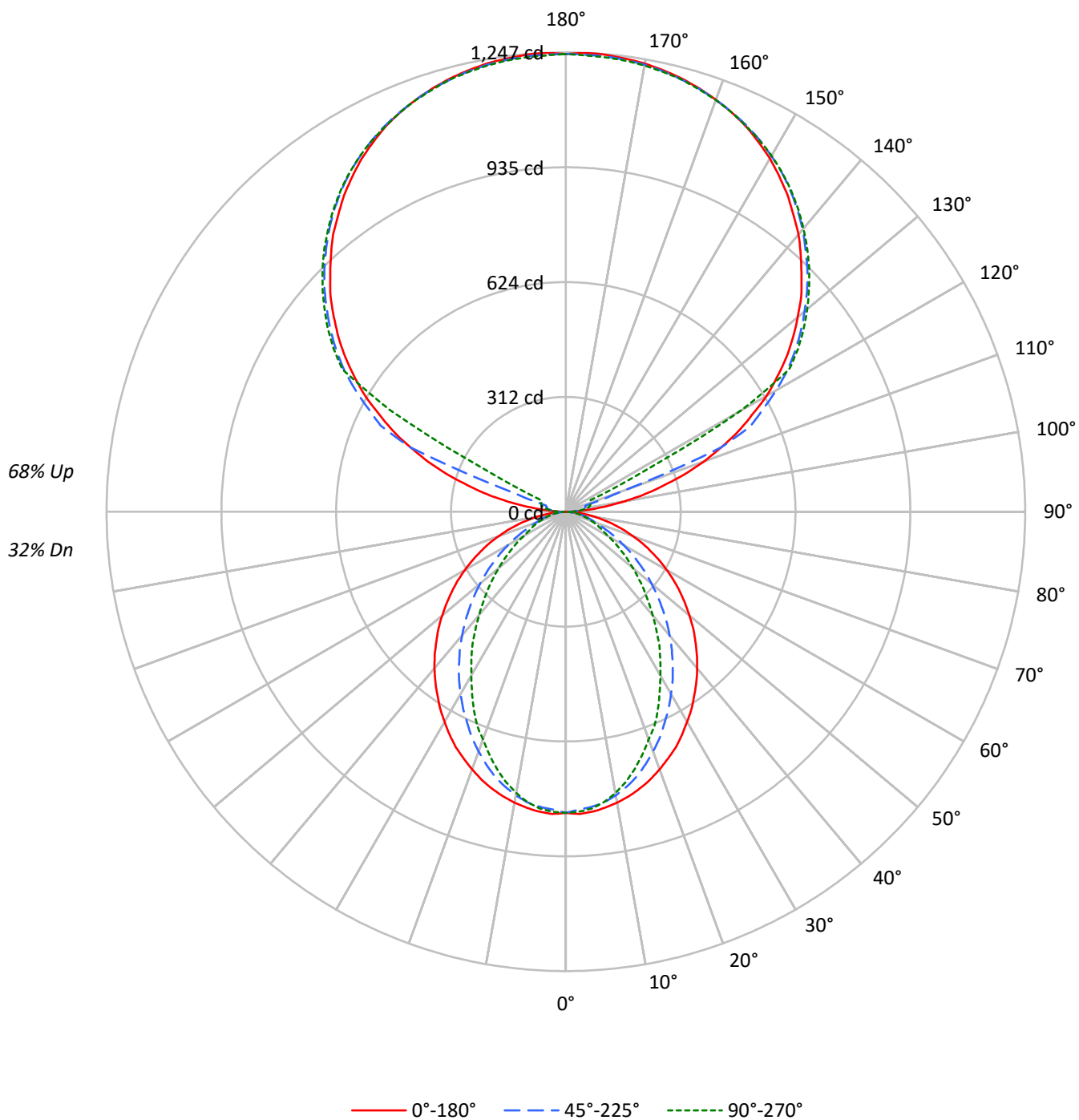
Lumens per Lamp: N/A  
Luminaire Lumens: 5326.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 52.5  
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

TEST NUMBER: P1010089

CATALOG NUMBER: S122RDIP-B485D925UB40-4F0-XX-W2A-F

### Luminous Intensity Polar Plot



TEST NUMBER: P1010089

CATALOG NUMBER: S122RDIP-B485D925UB40-4F0-XX-W2A-F

**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   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 |
| 1   | 94  | 90  | 86  | 83  | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 48 | 47 | 35 | 34 | 34 |
| 2   | 86  | 79  | 73  | 68  | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 44 | 41 | 39 | 31 | 30 | 29 |
| 3   | 78  | 69  | 63  | 57  | 70 | 63 | 57 | 52 | 50 | 46 | 43 | 39 | 36 | 34 | 28 | 26 | 25 |
| 4   | 72  | 62  | 54  | 48  | 64 | 56 | 49 | 44 | 45 | 40 | 37 | 35 | 32 | 29 | 25 | 23 | 22 |
| 5   | 66  | 55  | 47  | 42  | 59 | 50 | 43 | 38 | 40 | 35 | 32 | 31 | 28 | 25 | 23 | 21 | 19 |
| 6   | 61  | 49  | 42  | 36  | 55 | 45 | 38 | 33 | 36 | 31 | 28 | 28 | 25 | 22 | 21 | 19 | 17 |
| 7   | 56  | 44  | 37  | 32  | 50 | 40 | 34 | 29 | 33 | 28 | 24 | 26 | 22 | 20 | 19 | 17 | 15 |
| 8   | 52  | 40  | 33  | 28  | 47 | 37 | 30 | 26 | 30 | 25 | 22 | 24 | 20 | 18 | 18 | 15 | 14 |
| 9   | 48  | 37  | 30  | 25  | 44 | 34 | 27 | 23 | 27 | 23 | 19 | 22 | 18 | 16 | 16 | 14 | 12 |
| 10  | 45  | 34  | 27  | 22  | 41 | 31 | 25 | 21 | 25 | 21 | 17 | 20 | 17 | 14 | 15 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12939 | 12939 | 12939 |
| 5°  | 12960 | 12308 | 12218 |
| 10° | 12831 | 11675 | 11289 |
| 15° | 12655 | 10925 | 10231 |
| 20° | 12421 | 10072 | 9124  |
| 25° | 12184 | 9199  | 8111  |
| 30° | 11861 | 8347  | 7004  |
| 35° | 11547 | 7489  | 6054  |
| 40° | 11229 | 6645  | 5076  |
| 45° | 10857 | 5774  | 4223  |
| 50° | 10472 | 4936  | 3437  |
| 55° | 10072 | 4097  | 2730  |
| 60° | 9607  | 3276  | 2065  |
| 65° | 9072  | 2498  | 1678  |
| 70° | 8423  | 1812  | 1334  |
| 75° | 7613  | 1383  | 1020  |
| 80° | 6435  | 936   | 683   |
| 85° | 4492  | 430   | 332   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10857 cd/sqm

TEST NUMBER: P1010089

CATALOG NUMBER: S122RDIP-B485D925UB40-4F0-XX-W2A-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.6   | 1.4       |
| 10°-20°   | 210.3  | 3.9       |
| 20°-30°   | 295.2  | 5.5       |
| 30°-40°   | 321.8  | 6.0       |
| 40°-50°   | 295.8  | 5.6       |
| 50°-60°   | 232.3  | 4.4       |
| 60°-70°   | 151.2  | 2.8       |
| 70°-80°   | 77.8   | 1.5       |
| 80°-90°   | 22.1   | 0.4       |
| 90°-100°  | 41.0   | 0.8       |
| 100°-110° | 152.7  | 2.9       |
| 110°-120° | 405.1  | 7.6       |
| 120°-130° | 671.9  | 12.6      |
| 130°-140° | 713.7  | 13.4      |
| 140°-150° | 663.3  | 12.5      |
| 150°-160° | 533.3  | 10.0      |
| 160°-170° | 343.6  | 6.5       |
| 170°-180° | 118.3  | 2.2       |
| 0°-30°    | 582.1  | 10.9      |
| 0°-40°    | 904.0  | 17.0      |
| 0°-60°    | 1432.1 | 26.9      |
| 0°-90°    | 1683.2 | 31.6      |
| 90°-120°  | 598.8  | 11.2      |
| 90°-150°  | 2647.7 | 49.7      |
| 90°-180°  | 3643.0 | 68.4      |
| 0°-180°   | 5326.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 817  | 817   | 817  | 817   | 817  |      |
| 5°   | 817  | 814   | 804  | 811   | 808  | 78   |
| 15°  | 777  | 769   | 744  | 730   | 723  | 219  |
| 25°  | 706  | 682   | 633  | 603   | 592  | 325  |
| 35°  | 608  | 570   | 505  | 459   | 442  | 381  |
| 45°  | 497  | 448   | 370  | 317   | 300  | 384  |
| 55°  | 378  | 320   | 240  | 196   | 182  | 338  |
| 65°  | 255  | 195   | 129  | 104   | 101  | 253  |
| 75°  | 136  | 84    | 59   | 54    | 53   | 144  |
| 85°  | 32   | 16    | 14   | 14    | 14   | 36   |
| 90°  | 1    | 11    | 18   | 22    | 24   | 5    |
| 95°  | 58   | 29    | 35   | 40    | 39   | 69   |
| 105° | 273  | 300   | 55   | 65    | 68   | 292  |
| 115° | 517  | 532   | 555  | 138   | 74   | 509  |
| 125° | 731  | 743   | 760  | 766   | 769  | 652  |
| 135° | 904  | 919   | 927  | 936   | 934  | 699  |
| 145° | 1049 | 1048  | 1064 | 1070  | 1066 | 656  |
| 155° | 1155 | 1147  | 1158 | 1164  | 1156 | 532  |
| 165° | 1217 | 1212  | 1215 | 1221  | 1215 | 344  |
| 175° | 1245 | 1239  | 1241 | 1247  | 1238 | 119  |
| 180° | 1243 | 1243  | 1243 | 1243  | 1243 |      |

TEST NUMBER: P1010089

CATALOG NUMBER: S122RDIP-B485D925UB40-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 817.4 | 817.4 | 817.4 | 817.4 | 817.4 |
| 2.5°   | 821.1 | 817.4 | 809.2 | 816.6 | 815.1 |
| 5°     | 817.4 | 813.7 | 804.0 | 810.7 | 808.5 |
| 7.5°   | 810.7 | 806.3 | 795.9 | 798.9 | 795.2 |
| 10°    | 801.8 | 796.6 | 781.9 | 779.6 | 775.2 |
| 12.5°  | 790.7 | 784.1 | 764.1 | 759.7 | 751.5 |
| 15°    | 777.4 | 769.3 | 744.1 | 730.1 | 722.7 |
| 17.5°  | 761.9 | 750.0 | 719.0 | 702.7 | 690.9 |
| 20°    | 744.1 | 729.3 | 692.3 | 673.9 | 657.6 |
| 22.5°  | 724.9 | 707.9 | 665.0 | 639.8 | 628.7 |
| 25°    | 705.7 | 682.0 | 633.2 | 602.8 | 591.8 |
| 27.5°  | 682.7 | 657.6 | 603.6 | 568.8 | 551.8 |
| 30°    | 658.3 | 630.2 | 571.0 | 533.3 | 513.3 |
| 32.5°  | 634.7 | 600.6 | 540.0 | 495.6 | 477.1 |
| 35°    | 608.0 | 570.3 | 505.2 | 458.6 | 442.3 |
| 37.5°  | 582.1 | 541.5 | 472.7 | 421.6 | 403.1 |
| 40°    | 554.8 | 510.4 | 438.6 | 386.1 | 366.9 |
| 42.5°  | 526.7 | 479.3 | 404.6 | 349.9 | 331.4 |
| 45°    | 497.1 | 447.5 | 369.8 | 317.3 | 299.6 |
| 47.5°  | 469.0 | 416.4 | 336.6 | 284.0 | 267.8 |
| 50°    | 437.9 | 385.4 | 304.0 | 253.0 | 237.4 |
| 52.5°  | 407.6 | 352.1 | 272.9 | 224.1 | 210.1 |
| 55°    | 378.0 | 320.3 | 240.4 | 196.0 | 182.0 |
| 57.5°  | 347.7 | 288.5 | 211.6 | 170.1 | 158.3 |
| 60°    | 316.6 | 257.4 | 181.2 | 143.5 | 131.7 |
| 62.5°  | 286.3 | 227.1 | 155.3 | 119.8 | 113.9 |
| 65°    | 255.2 | 195.3 | 128.7 | 103.6 | 101.3 |
| 67.5°  | 225.6 | 165.7 | 103.6 | 91.0  | 88.8  |
| 70°    | 194.5 | 136.8 | 85.8  | 78.4  | 75.4  |
| 72.5°  | 165.0 | 110.2 | 71.7  | 65.8  | 64.4  |
| 75°    | 136.1 | 84.3  | 59.2  | 54.0  | 53.3  |
| 77.5°  | 107.3 | 59.9  | 46.6  | 43.6  | 42.2  |
| 80°    | 80.6  | 42.9  | 35.5  | 32.5  | 32.5  |
| 82.5°  | 56.2  | 28.8  | 24.4  | 22.9  | 22.9  |
| 85°    | 31.8  | 16.3  | 14.1  | 14.1  | 14.1  |
| 87.5°  | 11.8  | 5.9   | 5.9   | 5.2   | 5.2   |
| 90°    | 0.9   | 10.8  | 18.0  | 22.5  | 24.3  |
| 92.5°  | 22.5  | 18.9  | 21.6  | 23.4  | 24.3  |
| 95°    | 58.4  | 28.8  | 35.1  | 39.6  | 38.7  |
| 97.5°  | 105.2 | 31.5  | 45.9  | 48.6  | 49.5  |
| 100°   | 159.1 | 36.0  | 51.2  | 58.4  | 60.2  |
| 102.5° | 218.5 | 216.7 | 53.0  | 62.9  | 65.6  |
| 105°   | 273.3 | 300.3 | 54.8  | 64.7  | 68.3  |
| 107.5° | 337.2 | 359.6 | 56.6  | 66.5  | 70.1  |
| 110°   | 398.3 | 417.2 | 157.3 | 67.4  | 71.0  |

TEST NUMBER: P1010089

CATALOG NUMBER: S122RDIP-B485D925UB40-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 455.9  | 472.0  | 456.8  | 69.2   | 71.9   |
| 115°   | 517.0  | 532.3  | 554.8  | 138.5  | 73.7   |
| 117.5° | 570.0  | 588.0  | 603.3  | 474.7  | 239.2  |
| 120°   | 629.4  | 642.9  | 659.1  | 669.8  | 548.5  |
| 122.5° | 679.7  | 694.1  | 712.1  | 717.5  | 718.4  |
| 125°   | 731.0  | 742.7  | 759.8  | 766.0  | 768.7  |
| 127.5° | 777.7  | 790.3  | 803.8  | 812.8  | 813.7  |
| 130°   | 821.8  | 836.2  | 846.1  | 856.0  | 855.1  |
| 132.5° | 866.8  | 878.4  | 888.3  | 896.4  | 895.5  |
| 135°   | 904.5  | 918.9  | 927.0  | 936.0  | 934.2  |
| 137.5° | 944.1  | 954.9  | 963.9  | 972.8  | 970.1  |
| 140°   | 982.7  | 989.9  | 999.8  | 1007.9 | 1003.4 |
| 142.5° | 1015.1 | 1021.4 | 1033.1 | 1040.3 | 1035.8 |
| 145°   | 1049.3 | 1048.4 | 1063.7 | 1070.0 | 1065.5 |
| 147.5° | 1078.9 | 1076.2 | 1091.5 | 1096.0 | 1092.4 |
| 150°   | 1107.7 | 1101.4 | 1115.8 | 1121.2 | 1116.7 |
| 152.5° | 1132.0 | 1124.8 | 1138.3 | 1143.7 | 1137.4 |
| 155°   | 1155.4 | 1147.3 | 1158.1 | 1163.5 | 1156.3 |
| 157.5° | 1174.2 | 1167.1 | 1175.1 | 1181.4 | 1174.2 |
| 160°   | 1190.4 | 1185.0 | 1190.4 | 1195.8 | 1189.5 |
| 162.5° | 1204.8 | 1199.4 | 1203.9 | 1210.2 | 1202.1 |
| 165°   | 1217.4 | 1212.0 | 1214.7 | 1221.0 | 1214.7 |
| 167.5° | 1227.3 | 1221.9 | 1224.6 | 1230.9 | 1222.8 |
| 170°   | 1235.4 | 1230.0 | 1231.8 | 1238.1 | 1230.0 |
| 172.5° | 1240.8 | 1235.4 | 1237.2 | 1243.5 | 1235.4 |
| 175°   | 1245.3 | 1239.0 | 1240.8 | 1247.1 | 1238.1 |
| 177.5° | 1247.1 | 1240.8 | 1241.7 | 1248.0 | 1239.9 |
| 180°   | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 |

(END OF REPORT)