

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1175406

Luminaire Tested: S125RDRP-H1270D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1270D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

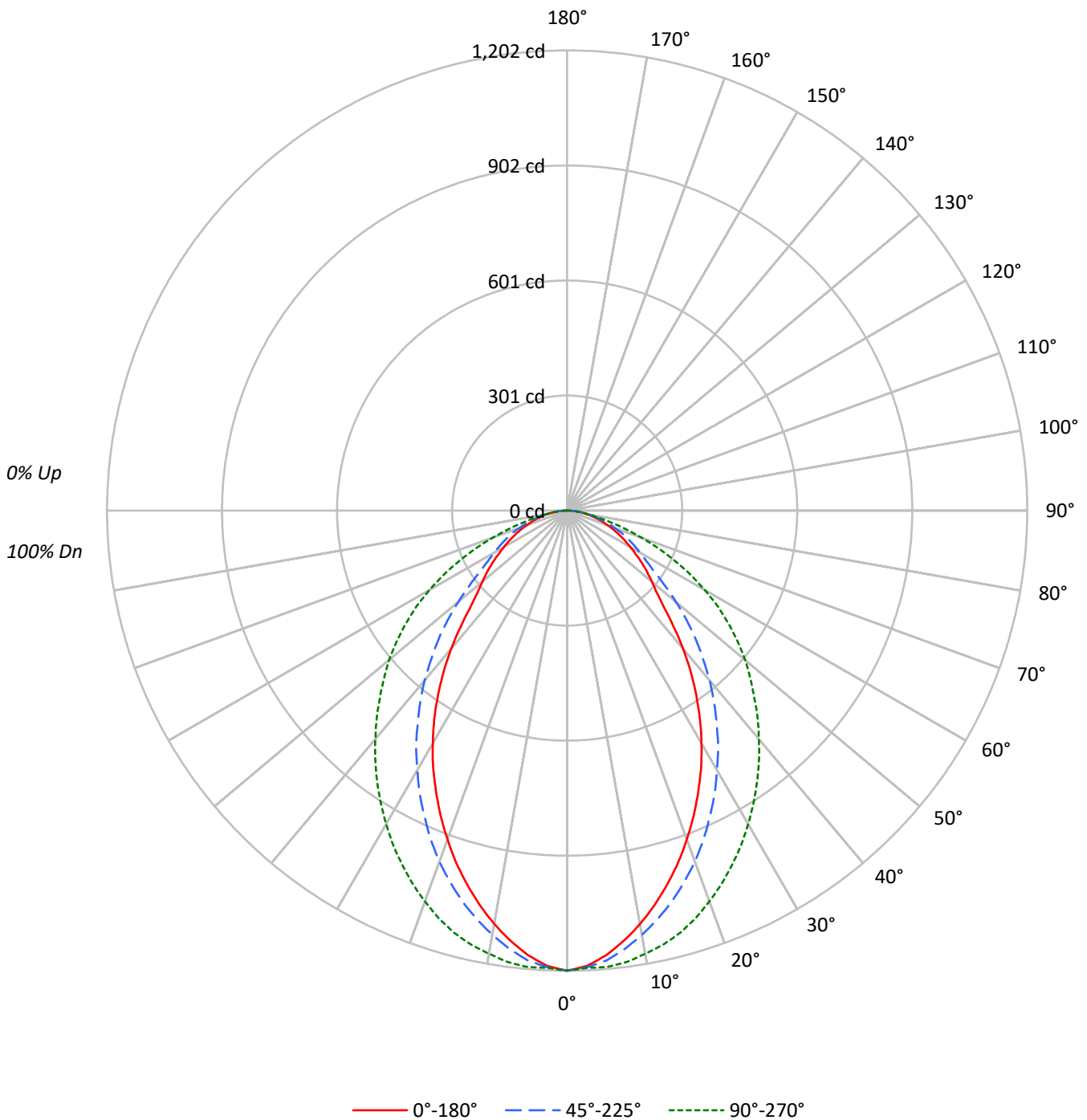
Lumens per Lamp: N/A
Luminaire Lumens: 2264.1 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (A_{in}): 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: P1175406

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 70 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 86 | 82 | 89 | 84 | 80 | 85 | 81 | 78 | 82 | 79 | 76 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 61 | 72 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 74 | 62 | 54 | 48 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 58 | 51 | 47 | 56 | 51 | 46 | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 69 | 57 | 48 | 43 | 68 | 56 | 48 | 43 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 65 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 61 | 48 | 40 | 35 | 59 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8275 | 8275 | 8275 |
| 5° | 8060 | 8151 | 8271 |
| 10° | 7668 | 7867 | 8217 |
| 15° | 7207 | 7534 | 8137 |
| 20° | 6698 | 7146 | 7961 |
| 25° | 6154 | 6697 | 7750 |
| 30° | 5580 | 6221 | 7519 |
| 35° | 4939 | 5720 | 7271 |
| 40° | 4236 | 5200 | 7005 |
| 45° | 3477 | 4629 | 6735 |
| 50° | 3092 | 3978 | 6502 |
| 55° | 2853 | 3331 | 6172 |
| 60° | 2627 | 3035 | 5718 |
| 65° | 2444 | 2859 | 5052 |
| 70° | 2279 | 2669 | 4129 |
| 75° | 2144 | 2469 | 3094 |
| 80° | 2022 | 2264 | 2224 |
| 85° | 1856 | 2259 | 1856 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6735 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.3 | 4.9 |
| 10°-20° | 299.9 | 13.2 |
| 20°-30° | 412.6 | 18.2 |
| 30°-40° | 437.6 | 19.3 |
| 40°-50° | 383.0 | 16.9 |
| 50°-60° | 293.9 | 13.0 |
| 60°-70° | 195.8 | 8.6 |
| 70°-80° | 100.4 | 4.4 |
| 80°-90° | 29.8 | 1.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 823.7 | 36.4 |
| 0°-40° | 1261.3 | 55.7 |
| 0°-60° | 1938.2 | 85.6 |
| 0°-90° | 2264.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2264.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1202 | 1202 | 1202 | 1202 | 1202 | |
| 5° | 1166 | 1181 | 1179 | 1188 | 1197 | 109 |
| 15° | 1011 | 1034 | 1057 | 1107 | 1142 | 283 |
| 25° | 810 | 838 | 882 | 956 | 1020 | 372 |
| 35° | 588 | 615 | 680 | 780 | 865 | 366 |
| 45° | 357 | 387 | 475 | 594 | 692 | 282 |
| 55° | 238 | 243 | 278 | 412 | 514 | 213 |
| 65° | 150 | 151 | 176 | 231 | 310 | 149 |
| 75° | 81 | 86 | 93 | 98 | 116 | 86 |
| 85° | 24 | 26 | 29 | 28 | 24 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1175406

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1201.8 | 1201.8 | 1201.8 | 1201.8 | 1201.8 |
| 2.5° | 1190.6 | 1202.8 | 1193.6 | 1194.7 | 1195.7 |
| 5° | 1166.1 | 1181.4 | 1179.4 | 1187.5 | 1196.7 |
| 7.5° | 1133.4 | 1149.8 | 1154.9 | 1175.3 | 1189.6 |
| 10° | 1096.7 | 1115.1 | 1125.3 | 1155.9 | 1175.3 |
| 12.5° | 1054.9 | 1076.3 | 1092.6 | 1132.4 | 1161.0 |
| 15° | 1011.0 | 1034.5 | 1056.9 | 1106.9 | 1141.6 |
| 17.5° | 964.1 | 987.6 | 1017.1 | 1074.3 | 1116.1 |
| 20° | 914.1 | 939.6 | 975.3 | 1036.5 | 1086.5 |
| 22.5° | 863.1 | 889.6 | 930.4 | 997.8 | 1054.9 |
| 25° | 810.0 | 837.6 | 881.5 | 955.9 | 1020.2 |
| 27.5° | 758.0 | 783.5 | 834.5 | 914.1 | 984.5 |
| 30° | 701.9 | 728.4 | 782.5 | 870.2 | 945.7 |
| 32.5° | 645.8 | 672.3 | 734.5 | 826.4 | 905.9 |
| 35° | 587.6 | 615.2 | 680.5 | 780.5 | 865.1 |
| 37.5° | 529.5 | 558.1 | 630.5 | 733.5 | 823.3 |
| 40° | 471.3 | 501.9 | 578.5 | 686.6 | 779.4 |
| 42.5° | 412.2 | 444.8 | 525.4 | 640.7 | 736.6 |
| 45° | 357.1 | 386.7 | 475.4 | 593.8 | 691.7 |
| 47.5° | 317.3 | 334.6 | 422.4 | 545.8 | 648.8 |
| 50° | 288.7 | 296.9 | 371.4 | 499.9 | 607.0 |
| 52.5° | 263.2 | 268.3 | 321.4 | 457.1 | 561.1 |
| 55° | 237.7 | 242.8 | 277.5 | 412.2 | 514.2 |
| 57.5° | 213.2 | 216.3 | 244.8 | 367.3 | 467.3 |
| 60° | 190.8 | 192.8 | 220.4 | 322.4 | 415.2 |
| 62.5° | 170.4 | 171.4 | 196.9 | 276.5 | 363.2 |
| 65° | 150.0 | 151.0 | 175.5 | 230.6 | 310.1 |
| 67.5° | 131.6 | 131.6 | 155.1 | 188.7 | 259.1 |
| 70° | 113.2 | 113.2 | 132.6 | 153.0 | 205.1 |
| 72.5° | 96.9 | 99.0 | 112.2 | 123.4 | 160.2 |
| 75° | 80.6 | 85.7 | 92.8 | 97.9 | 116.3 |
| 77.5° | 65.3 | 71.4 | 74.5 | 76.5 | 77.5 |
| 80° | 51.0 | 55.1 | 57.1 | 58.2 | 56.1 |
| 82.5° | 37.7 | 40.8 | 41.8 | 41.8 | 38.8 |
| 85° | 23.5 | 26.5 | 28.6 | 27.5 | 23.5 |
| 87.5° | 11.2 | 15.3 | 16.3 | 14.3 | 11.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 13.96 | 15.46 | 14.32 | 15.77 | 16.08 | 17.98 | 19.48 | 18.35 | 19.80 | 20.11 |
| | 3H | 15.54 | 16.89 | 15.92 | 17.22 | 17.58 | 19.37 | 20.71 | 19.75 | 21.04 | 21.40 |
| | 4H | 16.19 | 17.45 | 16.59 | 17.80 | 18.18 | 19.78 | 21.04 | 20.18 | 21.39 | 21.76 |
| | 6H | 16.70 | 17.86 | 17.11 | 18.23 | 18.62 | 19.98 | 21.15 | 20.39 | 21.51 | 21.90 |
| | 8H | 16.88 | 17.99 | 17.30 | 18.38 | 18.78 | 20.04 | 21.15 | 20.47 | 21.54 | 21.94 |
| | 12H | 17.00 | 18.06 | 17.43 | 18.45 | 18.88 | 20.07 | 21.13 | 20.50 | 21.51 | 21.94 |
| 4H | 2H | 14.73 | 15.99 | 15.13 | 16.34 | 16.72 | 18.11 | 19.37 | 18.51 | 19.72 | 20.10 |
| | 3H | 16.51 | 17.56 | 16.92 | 17.96 | 18.36 | 19.68 | 20.73 | 20.09 | 21.13 | 21.53 |
| | 4H | 17.28 | 18.22 | 17.71 | 18.63 | 19.07 | 20.19 | 21.13 | 20.62 | 21.55 | 21.99 |
| | 6H | 17.92 | 18.74 | 18.37 | 19.18 | 19.64 | 20.52 | 21.34 | 20.98 | 21.78 | 22.24 |
| | 8H | 18.15 | 18.91 | 18.61 | 19.36 | 19.82 | 20.62 | 21.38 | 21.08 | 21.83 | 22.29 |
| | 12H | 18.32 | 19.00 | 18.80 | 19.48 | 19.95 | 20.69 | 21.37 | 21.17 | 21.85 | 22.32 |
| 8H | 4H | 17.66 | 18.43 | 18.12 | 18.87 | 19.34 | 20.29 | 21.06 | 20.76 | 21.50 | 21.97 |
| | 6H | 18.44 | 19.07 | 18.93 | 19.56 | 20.04 | 20.71 | 21.34 | 21.21 | 21.83 | 22.31 |
| | 8H | 18.75 | 19.32 | 19.27 | 19.83 | 20.32 | 20.87 | 21.44 | 21.38 | 21.95 | 22.44 |
| | 12H | 19.02 | 19.52 | 19.53 | 20.01 | 20.57 | 21.01 | 21.51 | 21.52 | 22.00 | 22.57 |
| 12H | 4H | 17.70 | 18.38 | 18.18 | 18.86 | 19.33 | 20.29 | 20.97 | 20.77 | 21.45 | 21.92 |
| | 6H | 18.51 | 19.08 | 19.03 | 19.59 | 20.08 | 20.72 | 21.29 | 21.24 | 21.80 | 22.29 |
| | 8H | 18.90 | 19.40 | 19.41 | 19.89 | 20.45 | 20.93 | 21.43 | 21.44 | 21.93 | 22.49 |