

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: P1175425

Luminaire Tested: S125RDRP-H610D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175425
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-H610D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

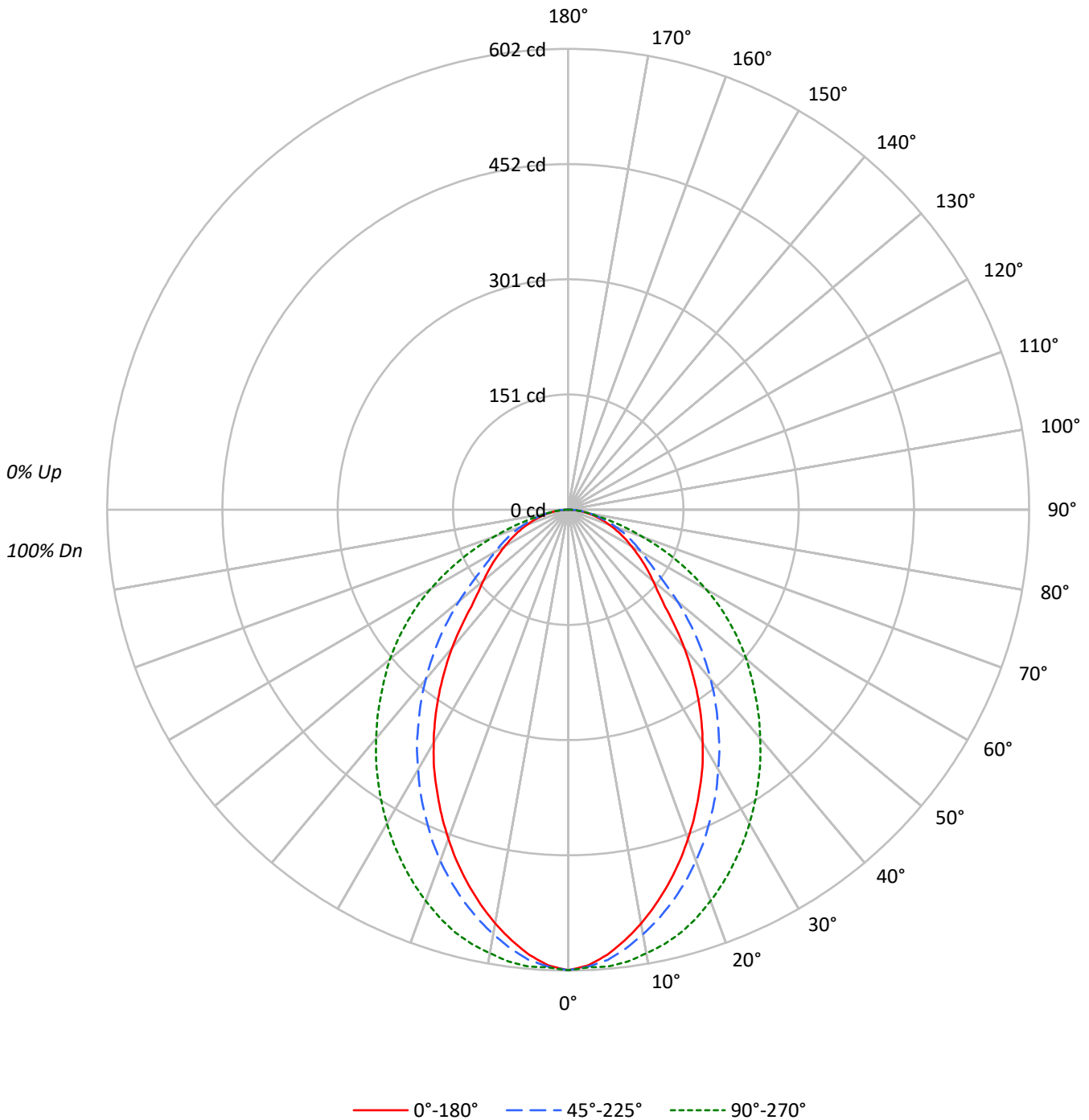
Lumens per Lamp: N/A
Luminaire Lumens: 1133.3 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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





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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 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 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° | 4141 | 4141 | 4141 |
| 5° | 4034 | 4080 | 4140 |
| 10° | 3838 | 3938 | 4113 |
| 15° | 3607 | 3771 | 4073 |
| 20° | 3352 | 3577 | 3984 |
| 25° | 3080 | 3352 | 3879 |
| 30° | 2793 | 3114 | 3764 |
| 35° | 2472 | 2863 | 3640 |
| 40° | 2120 | 2602 | 3506 |
| 45° | 1740 | 2317 | 3371 |
| 50° | 1548 | 1991 | 3254 |
| 55° | 1428 | 1667 | 3090 |
| 60° | 1315 | 1519 | 2862 |
| 65° | 1224 | 1430 | 2528 |
| 70° | 1141 | 1337 | 2065 |
| 75° | 1072 | 1237 | 1548 |
| 80° | 1011 | 1134 | 1114 |
| 85° | 924 | 1130 | 924 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3371 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.7 | 4.9 |
| 10°-20° | 150.1 | 13.2 |
| 20°-30° | 206.5 | 18.2 |
| 30°-40° | 219.0 | 19.3 |
| 40°-50° | 191.7 | 16.9 |
| 50°-60° | 147.1 | 13.0 |
| 60°-70° | 98.0 | 8.6 |
| 70°-80° | 50.2 | 4.4 |
| 80°-90° | 14.9 | 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° | 412.3 | 36.4 |
| 0°-40° | 631.3 | 55.7 |
| 0°-60° | 970.1 | 85.6 |
| 0°-90° | 1133.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1133.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 602 | 602 | 602 | 602 | 602 | |
| 5° | 584 | 591 | 590 | 594 | 599 | 55 |
| 15° | 506 | 518 | 529 | 554 | 571 | 142 |
| 25° | 405 | 419 | 441 | 478 | 511 | 186 |
| 35° | 294 | 308 | 341 | 391 | 433 | 183 |
| 45° | 179 | 194 | 238 | 297 | 346 | 141 |
| 55° | 119 | 122 | 139 | 206 | 257 | 107 |
| 65° | 75 | 76 | 88 | 115 | 155 | 75 |
| 75° | 40 | 43 | 46 | 49 | 58 | 43 |
| 85° | 12 | 13 | 14 | 14 | 12 | 13 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: S125RDRP-H610D935-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 |
| 2.5° | 595.9 | 602.0 | 597.4 | 598.0 | 598.5 |
| 5° | 583.7 | 591.3 | 590.3 | 594.4 | 599.0 |
| 7.5° | 567.3 | 575.5 | 578.0 | 588.3 | 595.4 |
| 10° | 548.9 | 558.1 | 563.2 | 578.6 | 588.3 |
| 12.5° | 528.0 | 538.7 | 546.9 | 566.8 | 581.1 |
| 15° | 506.0 | 517.8 | 529.0 | 554.0 | 571.4 |
| 17.5° | 482.6 | 494.3 | 509.1 | 537.7 | 558.6 |
| 20° | 457.5 | 470.3 | 488.2 | 518.8 | 543.8 |
| 22.5° | 432.0 | 445.3 | 465.7 | 499.4 | 528.0 |
| 25° | 405.4 | 419.2 | 441.2 | 478.5 | 510.6 |
| 27.5° | 379.4 | 392.2 | 417.7 | 457.5 | 492.8 |
| 30° | 351.3 | 364.6 | 391.7 | 435.6 | 473.4 |
| 32.5° | 323.2 | 336.5 | 367.7 | 413.6 | 453.4 |
| 35° | 294.1 | 307.9 | 340.6 | 390.6 | 433.0 |
| 37.5° | 265.0 | 279.3 | 315.6 | 367.1 | 412.1 |
| 40° | 235.9 | 251.2 | 289.5 | 343.7 | 390.1 |
| 42.5° | 206.3 | 222.6 | 263.0 | 320.7 | 368.7 |
| 45° | 178.7 | 193.5 | 238.0 | 297.2 | 346.2 |
| 47.5° | 158.8 | 167.5 | 211.4 | 273.2 | 324.8 |
| 50° | 144.5 | 148.6 | 185.9 | 250.2 | 303.8 |
| 52.5° | 131.7 | 134.3 | 160.9 | 228.8 | 280.9 |
| 55° | 119.0 | 121.5 | 138.9 | 206.3 | 257.4 |
| 57.5° | 106.7 | 108.3 | 122.6 | 183.8 | 233.9 |
| 60° | 95.5 | 96.5 | 110.3 | 161.4 | 207.8 |
| 62.5° | 85.3 | 85.8 | 98.6 | 138.4 | 181.8 |
| 65° | 75.1 | 75.6 | 87.8 | 115.4 | 155.2 |
| 67.5° | 65.9 | 65.9 | 77.6 | 94.5 | 129.7 |
| 70° | 56.7 | 56.7 | 66.4 | 76.6 | 102.6 |
| 72.5° | 48.5 | 49.5 | 56.2 | 61.8 | 80.2 |
| 75° | 40.3 | 42.9 | 46.5 | 49.0 | 58.2 |
| 77.5° | 32.7 | 35.7 | 37.3 | 38.3 | 38.8 |
| 80° | 25.5 | 27.6 | 28.6 | 29.1 | 28.1 |
| 82.5° | 18.9 | 20.4 | 20.9 | 20.9 | 19.4 |
| 85° | 11.7 | 13.3 | 14.3 | 13.8 | 11.7 |
| 87.5° | 5.6 | 7.7 | 8.2 | 7.1 | 5.6 |
| 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 | 11.55 | 13.05 | 11.92 | 13.37 | 13.68 | 15.58 | 17.08 | 15.94 | 17.39 | 17.70 |
| | 3H | 13.14 | 14.49 | 13.52 | 14.81 | 15.18 | 16.96 | 18.31 | 17.34 | 18.64 | 19.00 |
| | 4H | 13.78 | 15.04 | 14.18 | 15.39 | 15.77 | 17.37 | 18.63 | 17.77 | 18.98 | 19.36 |
| | 6H | 14.29 | 15.46 | 14.71 | 15.82 | 16.22 | 17.58 | 18.74 | 17.99 | 19.11 | 19.50 |
| | 8H | 14.47 | 15.58 | 14.90 | 15.97 | 16.37 | 17.63 | 18.74 | 18.06 | 19.13 | 19.53 |
| | 12H | 14.60 | 15.66 | 15.03 | 16.04 | 16.47 | 17.67 | 18.73 | 18.10 | 19.11 | 19.54 |
| 4H | 2H | 12.32 | 13.58 | 12.72 | 13.93 | 14.31 | 15.71 | 16.97 | 16.11 | 17.32 | 17.70 |
| | 3H | 14.11 | 15.15 | 14.52 | 15.55 | 15.95 | 17.28 | 18.32 | 17.69 | 18.72 | 19.12 |
| | 4H | 14.87 | 15.81 | 15.31 | 16.23 | 16.67 | 17.79 | 18.73 | 18.22 | 19.14 | 19.58 |
| | 6H | 15.51 | 16.33 | 15.97 | 16.77 | 17.23 | 18.11 | 18.93 | 18.57 | 19.38 | 19.84 |
| | 8H | 15.74 | 16.51 | 16.21 | 16.95 | 17.42 | 18.21 | 18.98 | 18.68 | 19.42 | 19.89 |
| | 12H | 15.91 | 16.60 | 16.40 | 17.08 | 17.55 | 18.28 | 18.97 | 18.77 | 19.45 | 19.92 |
| 8H | 4H | 15.26 | 16.02 | 15.72 | 16.47 | 16.93 | 17.89 | 18.65 | 18.35 | 19.10 | 19.56 |
| | 6H | 16.03 | 16.67 | 16.53 | 17.16 | 17.64 | 18.31 | 18.94 | 18.80 | 19.43 | 19.91 |
| | 8H | 16.35 | 16.92 | 16.86 | 17.43 | 17.92 | 18.47 | 19.03 | 18.98 | 19.54 | 20.03 |
| | 12H | 16.61 | 17.11 | 17.12 | 17.60 | 18.17 | 18.60 | 19.10 | 19.11 | 19.60 | 20.16 |
| 12H | 4H | 15.30 | 15.98 | 15.78 | 16.46 | 16.93 | 17.89 | 18.57 | 18.37 | 19.05 | 19.52 |
| | 6H | 16.11 | 16.68 | 16.62 | 17.19 | 17.67 | 18.32 | 18.89 | 18.83 | 19.40 | 19.89 |
| | 8H | 16.49 | 16.99 | 17.00 | 17.49 | 18.05 | 18.53 | 19.03 | 19.04 | 19.52 | 20.09 |