

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: P1217462

Luminaire Tested: S125DRP-H485D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217462
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2511-596-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H485D950-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

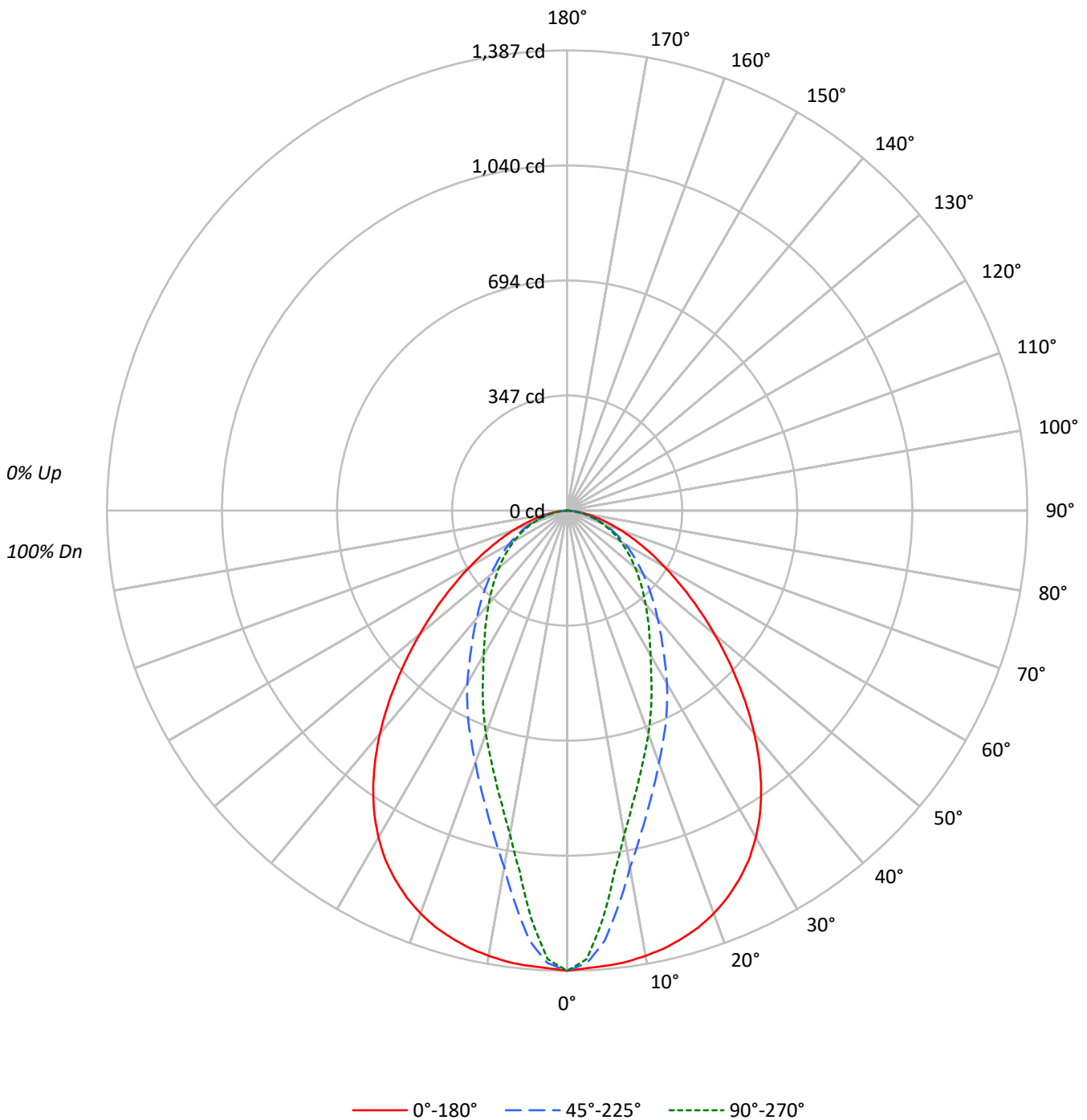
Lumens per Lamp: N/A
Luminaire Lumens: 1975.8 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 17.3
Input Voltage (V): 120
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: P1217462

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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 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 94 | 92 | 92 | 90 | 89 | | | | | 87 | | | | |
| 2 | 102 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 77 | | | | | 75 | | | | |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | | | | | 65 | | | | |
| 4 | 87 | 76 | 68 | 62 | 85 | 75 | 67 | 62 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | | | | | 57 | | | | |
| 5 | 80 | 69 | 61 | 55 | 78 | 68 | 60 | 54 | 66 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | | | | | 51 | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 54 | 49 | 60 | 53 | 48 | 59 | 52 | 48 | 57 | 52 | 47 | | | | | 46 | | | | |
| 7 | 70 | 58 | 50 | 44 | 68 | 57 | 49 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | | | | | 41 | | | | |
| 8 | 66 | 53 | 45 | 40 | 64 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | | | | | 37 | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 41 | 36 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | | | | | 34 | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | | | | | 32 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9807 | 9807 | 9807 |
| 5° | 9772 | 9231 | 8767 |
| 10° | 9780 | 7837 | 7113 |
| 15° | 9776 | 6852 | 6126 |
| 20° | 9724 | 6083 | 5385 |
| 25° | 9572 | 5490 | 4692 |
| 30° | 9286 | 4910 | 4101 |
| 35° | 8797 | 4336 | 3706 |
| 40° | 8101 | 3910 | 3394 |
| 45° | 7258 | 3575 | 3143 |
| 50° | 6378 | 3304 | 2941 |
| 55° | 5543 | 3069 | 2779 |
| 60° | 4786 | 2856 | 2631 |
| 65° | 4122 | 2656 | 2476 |
| 70° | 3532 | 2429 | 2284 |
| 75° | 2950 | 2117 | 2029 |
| 80° | 2329 | 1734 | 1681 |
| 85° | 1492 | 1184 | 1184 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7258 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.1 | 6.0 |
| 10°-20° | 281.2 | 14.2 |
| 20°-30° | 357.2 | 18.1 |
| 30°-40° | 363.8 | 18.4 |
| 40°-50° | 321.8 | 16.3 |
| 50°-60° | 252.2 | 12.8 |
| 60°-70° | 172.0 | 8.7 |
| 70°-80° | 88.6 | 4.5 |
| 80°-90° | 19.8 | 1.0 |
| 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° | 757.5 | 38.3 |
| 0°-40° | 1121.3 | 56.8 |
| 0°-60° | 1695.4 | 85.8 |
| 0°-90° | 1975.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1975.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1387 | 1387 | 1387 | 1387 | 1387 | |
| 5° | 1377 | 1370 | 1301 | 1250 | 1235 | 131 |
| 15° | 1336 | 1130 | 936 | 853 | 837 | 377 |
| 25° | 1227 | 871 | 704 | 620 | 602 | 564 |
| 35° | 1019 | 659 | 502 | 439 | 429 | 634 |
| 45° | 726 | 467 | 358 | 319 | 314 | 560 |
| 55° | 450 | 312 | 249 | 226 | 226 | 405 |
| 65° | 246 | 190 | 159 | 147 | 148 | 247 |
| 75° | 108 | 91 | 78 | 72 | 74 | 116 |
| 85° | 18 | 17 | 15 | 13 | 15 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1217462

CATALOG NUMBER: S125DRP-H485D950-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 |
| 2.5° | 1380.2 | 1391.0 | 1365.0 | 1358.0 | 1352.9 |
| 5° | 1377.0 | 1370.0 | 1300.8 | 1250.0 | 1235.4 |
| 7.5° | 1371.9 | 1333.2 | 1196.6 | 1110.3 | 1096.9 |
| 10° | 1362.4 | 1275.4 | 1091.8 | 1007.4 | 990.9 |
| 12.5° | 1351.6 | 1206.2 | 1009.3 | 923.5 | 907.6 |
| 15° | 1335.7 | 1130.0 | 936.2 | 853.0 | 837.1 |
| 17.5° | 1316.7 | 1057.5 | 870.2 | 788.2 | 773.0 |
| 20° | 1292.6 | 991.5 | 808.6 | 731.1 | 715.8 |
| 22.5° | 1262.7 | 929.2 | 753.9 | 674.5 | 658.0 |
| 25° | 1227.1 | 871.4 | 703.8 | 619.9 | 601.5 |
| 27.5° | 1186.5 | 816.2 | 652.3 | 565.3 | 547.5 |
| 30° | 1137.6 | 762.2 | 601.5 | 517.0 | 502.4 |
| 32.5° | 1082.3 | 710.1 | 549.4 | 475.1 | 463.0 |
| 35° | 1019.4 | 659.3 | 502.4 | 438.9 | 429.4 |
| 37.5° | 950.8 | 609.1 | 461.8 | 405.2 | 397.0 |
| 40° | 877.8 | 560.2 | 423.7 | 374.1 | 367.8 |
| 42.5° | 802.2 | 513.2 | 390.6 | 346.2 | 340.4 |
| 45° | 726.0 | 466.8 | 357.6 | 318.9 | 314.4 |
| 47.5° | 651.7 | 424.3 | 328.4 | 294.1 | 290.3 |
| 50° | 579.9 | 384.3 | 300.4 | 269.9 | 267.4 |
| 52.5° | 512.6 | 346.8 | 273.1 | 247.7 | 246.4 |
| 55° | 449.7 | 311.9 | 249.0 | 226.1 | 225.5 |
| 57.5° | 391.9 | 278.8 | 224.8 | 205.2 | 205.2 |
| 60° | 338.5 | 247.7 | 202.0 | 184.8 | 186.1 |
| 62.5° | 290.9 | 217.9 | 180.4 | 165.8 | 167.0 |
| 65° | 246.4 | 189.9 | 158.8 | 146.7 | 148.0 |
| 67.5° | 206.4 | 163.2 | 137.8 | 127.7 | 128.9 |
| 70° | 170.9 | 137.8 | 117.5 | 108.6 | 110.5 |
| 72.5° | 137.8 | 114.3 | 97.2 | 90.2 | 92.1 |
| 75° | 108.0 | 90.8 | 77.5 | 72.4 | 74.3 |
| 77.5° | 81.3 | 69.2 | 59.7 | 55.3 | 57.2 |
| 80° | 57.2 | 49.5 | 42.6 | 39.4 | 41.3 |
| 82.5° | 35.6 | 31.8 | 27.9 | 25.4 | 26.7 |
| 85° | 18.4 | 17.1 | 14.6 | 13.3 | 14.6 |
| 87.5° | 6.4 | 6.4 | 5.7 | 5.1 | 5.7 |
| 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 | 16.81 | 18.29 | 17.17 | 18.61 | 18.92 | 14.20 | 15.68 | 14.56 | 16.00 | 16.31 |
| | 3H | 18.39 | 19.73 | 18.77 | 20.06 | 20.42 | 15.84 | 17.17 | 16.22 | 17.50 | 17.86 |
| | 4H | 18.93 | 20.18 | 19.33 | 20.53 | 20.91 | 16.41 | 17.66 | 16.81 | 18.01 | 18.39 |
| | 6H | 19.27 | 20.42 | 19.68 | 20.79 | 21.18 | 16.79 | 17.94 | 17.20 | 18.31 | 18.70 |
| | 8H | 19.34 | 20.44 | 19.77 | 20.83 | 21.23 | 16.88 | 17.98 | 17.31 | 18.37 | 18.77 |
| | 12H | 19.38 | 20.43 | 19.81 | 20.81 | 21.24 | 16.93 | 17.98 | 17.36 | 18.36 | 18.79 |
| 4H | 2H | 17.05 | 18.30 | 17.45 | 18.65 | 19.03 | 14.88 | 16.13 | 15.28 | 16.48 | 16.86 |
| | 3H | 18.83 | 19.87 | 19.24 | 20.27 | 20.67 | 16.70 | 17.74 | 17.11 | 18.14 | 18.54 |
| | 4H | 19.48 | 20.41 | 19.91 | 20.83 | 21.27 | 17.36 | 18.30 | 17.80 | 18.71 | 19.15 |
| | 6H | 19.93 | 20.74 | 20.39 | 21.18 | 21.65 | 17.83 | 18.64 | 18.29 | 19.08 | 19.54 |
| | 8H | 20.05 | 20.80 | 20.51 | 21.25 | 21.72 | 17.95 | 18.71 | 18.42 | 19.16 | 19.62 |
| | 12H | 20.11 | 20.78 | 20.59 | 21.26 | 21.73 | 18.02 | 18.70 | 18.51 | 19.18 | 19.65 |
| 8H | 4H | 19.59 | 20.34 | 20.05 | 20.79 | 21.26 | 17.66 | 18.42 | 18.13 | 18.86 | 19.33 |
| | 6H | 20.12 | 20.74 | 20.61 | 21.23 | 21.71 | 18.21 | 18.84 | 18.71 | 19.33 | 19.81 |
| | 8H | 20.28 | 20.83 | 20.79 | 21.35 | 21.83 | 18.38 | 18.94 | 18.90 | 19.45 | 19.94 |
| | 12H | 20.38 | 20.87 | 20.89 | 21.37 | 21.93 | 18.49 | 18.99 | 19.00 | 19.48 | 20.04 |
| 12H | 4H | 19.58 | 20.25 | 20.06 | 20.73 | 21.20 | 17.69 | 18.36 | 18.17 | 18.84 | 19.31 |
| | 6H | 20.11 | 20.67 | 20.62 | 21.18 | 21.67 | 18.25 | 18.81 | 18.77 | 19.32 | 19.81 |
| | 8H | 20.31 | 20.80 | 20.82 | 21.29 | 21.86 | 18.46 | 18.96 | 18.98 | 19.45 | 20.02 |