

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334356

Luminaire Tested: **S125DP-S610D930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DP-S610D930-4F0-1E-UDD-F  
Description: DEFINE 5 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 610 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1925.9 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

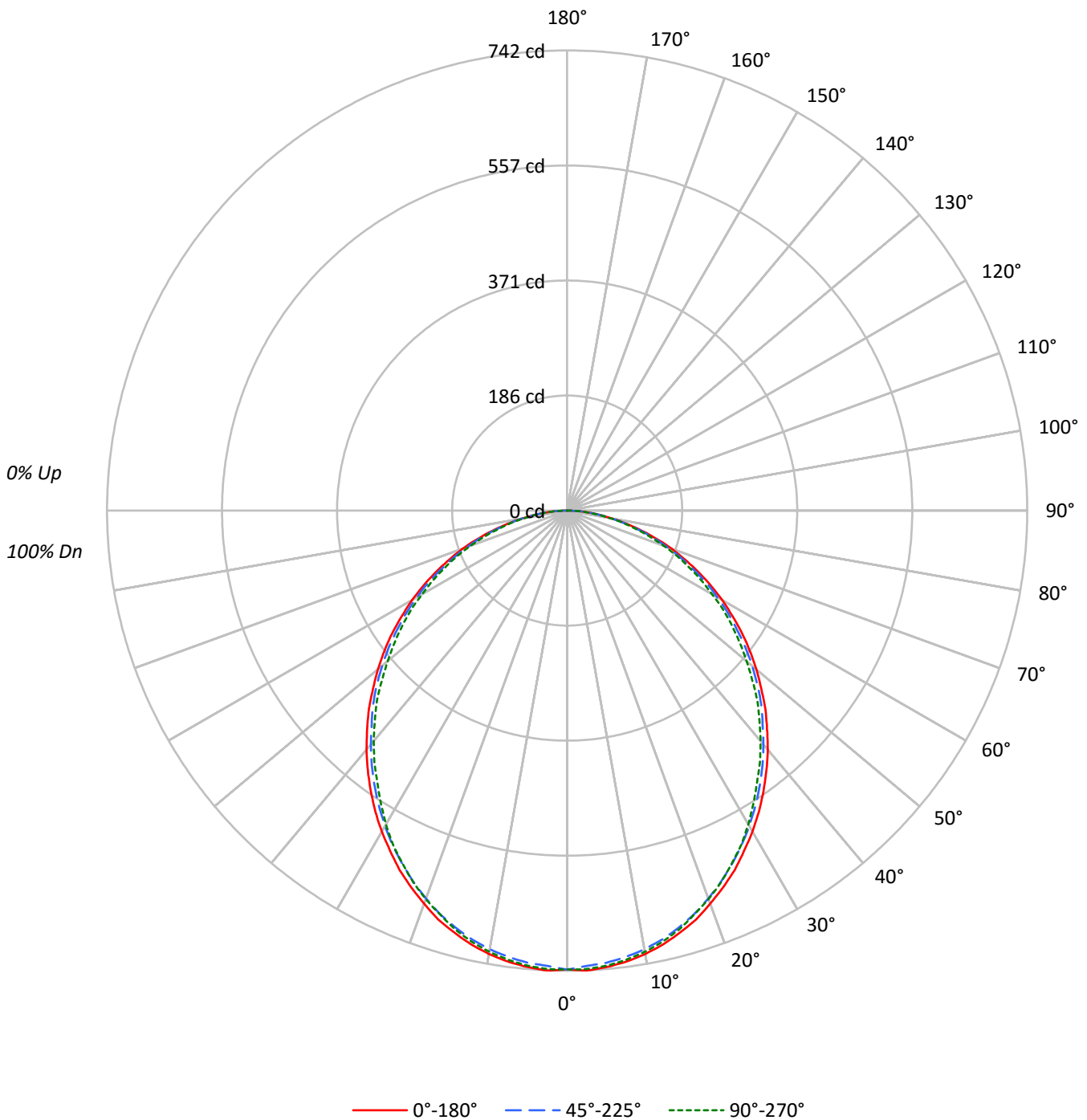
Input Watts (W): 18.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 72  | 70  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 67  | 63  | 70  | 66  | 62  | 59  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 46  | 44  |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 40  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4779 | 4779 | 4779 |
| 5°  | 4790 | 4744 | 4774 |
| 10° | 4760 | 4711 | 4737 |
| 15° | 4708 | 4654 | 4674 |
| 20° | 4635 | 4575 | 4583 |
| 25° | 4556 | 4480 | 4476 |
| 30° | 4457 | 4379 | 4357 |
| 35° | 4352 | 4269 | 4209 |
| 40° | 4244 | 4150 | 4091 |
| 45° | 4127 | 4042 | 3962 |
| 50° | 4000 | 3911 | 3794 |
| 55° | 3876 | 3764 | 3658 |
| 60° | 3728 | 3614 | 3486 |
| 65° | 3551 | 3435 | 3319 |
| 70° | 3382 | 3227 | 3118 |
| 75° | 3082 | 2979 | 2877 |
| 80° | 2745 | 2700 | 2633 |
| 85° | 2386 | 2431 | 2297 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.8   | 3.6       |
| 10°-20°   | 197.2  | 10.2      |
| 20°-30°   | 291.2  | 15.1      |
| 30°-40°   | 339.7  | 17.6      |
| 40°-50°   | 341.2  | 17.7      |
| 50°-60°   | 299.5  | 15.6      |
| 60°-70°   | 223.1  | 11.6      |
| 70°-80°   | 127.4  | 6.6       |
| 80°-90°   | 36.8   | 1.9       |
| 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°    | 558.2  | 29.0      |
| 0°-40°    | 897.9  | 46.6      |
| 0°-60°    | 1538.6 | 79.9      |
| 0°-90°    | 1925.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1925.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 740 | 740   | 740 | 740   | 740 |      |
| 5°  | 739 | 738   | 732 | 737   | 736 | 70   |
| 15° | 704 | 702   | 696 | 699   | 699 | 199  |
| 25° | 639 | 636   | 629 | 630   | 628 | 294  |
| 35° | 552 | 550   | 542 | 539   | 534 | 345  |
| 45° | 452 | 450   | 443 | 436   | 434 | 348  |
| 55° | 344 | 342   | 334 | 329   | 325 | 307  |
| 65° | 232 | 231   | 225 | 220   | 217 | 230  |
| 75° | 124 | 122   | 119 | 118   | 115 | 131  |
| 85° | 32  | 33    | 33  | 32    | 31  | 37   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 |
| 2.5°  | 742.3 | 740.5 | 734.7 | 740.5 | 740.0 |
| 5°    | 738.8 | 737.6 | 731.8 | 737.0 | 736.4 |
| 7.5°  | 733.5 | 732.3 | 725.9 | 731.2 | 730.6 |
| 10°   | 725.9 | 724.7 | 718.3 | 723.0 | 722.4 |
| 12.5° | 716.5 | 714.2 | 708.3 | 711.9 | 711.9 |
| 15°   | 704.2 | 702.5 | 696.0 | 699.0 | 699.0 |
| 17.5° | 691.4 | 688.4 | 682.0 | 685.5 | 682.6 |
| 20°   | 674.4 | 673.2 | 665.6 | 669.7 | 666.8 |
| 22.5° | 657.4 | 655.1 | 648.0 | 650.4 | 648.6 |
| 25°   | 639.3 | 636.3 | 628.7 | 629.9 | 628.1 |
| 27.5° | 618.2 | 616.4 | 608.8 | 609.4 | 607.7 |
| 30°   | 597.7 | 595.9 | 587.2 | 586.0 | 584.2 |
| 32.5° | 575.5 | 572.5 | 564.9 | 562.6 | 559.1 |
| 35°   | 552.0 | 549.7 | 541.5 | 538.6 | 533.9 |
| 37.5° | 528.0 | 525.1 | 517.5 | 513.4 | 510.5 |
| 40°   | 503.4 | 500.5 | 492.3 | 487.1 | 485.3 |
| 42.5° | 477.1 | 474.8 | 466.6 | 461.9 | 459.0 |
| 45°   | 451.9 | 449.6 | 442.6 | 435.5 | 433.8 |
| 47.5° | 424.4 | 425.0 | 416.2 | 409.2 | 405.1 |
| 50°   | 398.1 | 396.3 | 389.3 | 381.7 | 377.6 |
| 52.5° | 371.1 | 370.0 | 362.4 | 355.9 | 351.2 |
| 55°   | 344.2 | 342.5 | 334.3 | 329.0 | 324.9 |
| 57.5° | 315.5 | 314.9 | 307.9 | 300.9 | 299.1 |
| 60°   | 288.6 | 286.3 | 279.8 | 274.0 | 269.9 |
| 62.5° | 260.5 | 258.7 | 253.5 | 247.0 | 244.1 |
| 65°   | 232.4 | 231.2 | 224.8 | 219.5 | 217.2 |
| 67.5° | 204.9 | 202.6 | 197.9 | 193.2 | 192.0 |
| 70°   | 179.1 | 176.2 | 170.9 | 167.4 | 165.1 |
| 72.5° | 151.0 | 149.3 | 146.4 | 142.3 | 139.9 |
| 75°   | 123.5 | 122.3 | 119.4 | 117.7 | 115.3 |
| 77.5° | 97.8  | 97.2  | 95.4  | 94.3  | 92.5  |
| 80°   | 73.8  | 73.8  | 72.6  | 72.0  | 70.8  |
| 82.5° | 52.7  | 51.5  | 51.5  | 50.3  | 50.3  |
| 85°   | 32.2  | 32.8  | 32.8  | 32.2  | 31.0  |
| 87.5° | 15.8  | 15.8  | 15.2  | 15.2  | 14.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)