

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: P334431

Luminaire Tested: **S125RDP-S610D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDP-S610D935-4F0-1E-UDD-F
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 610 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1933.9 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

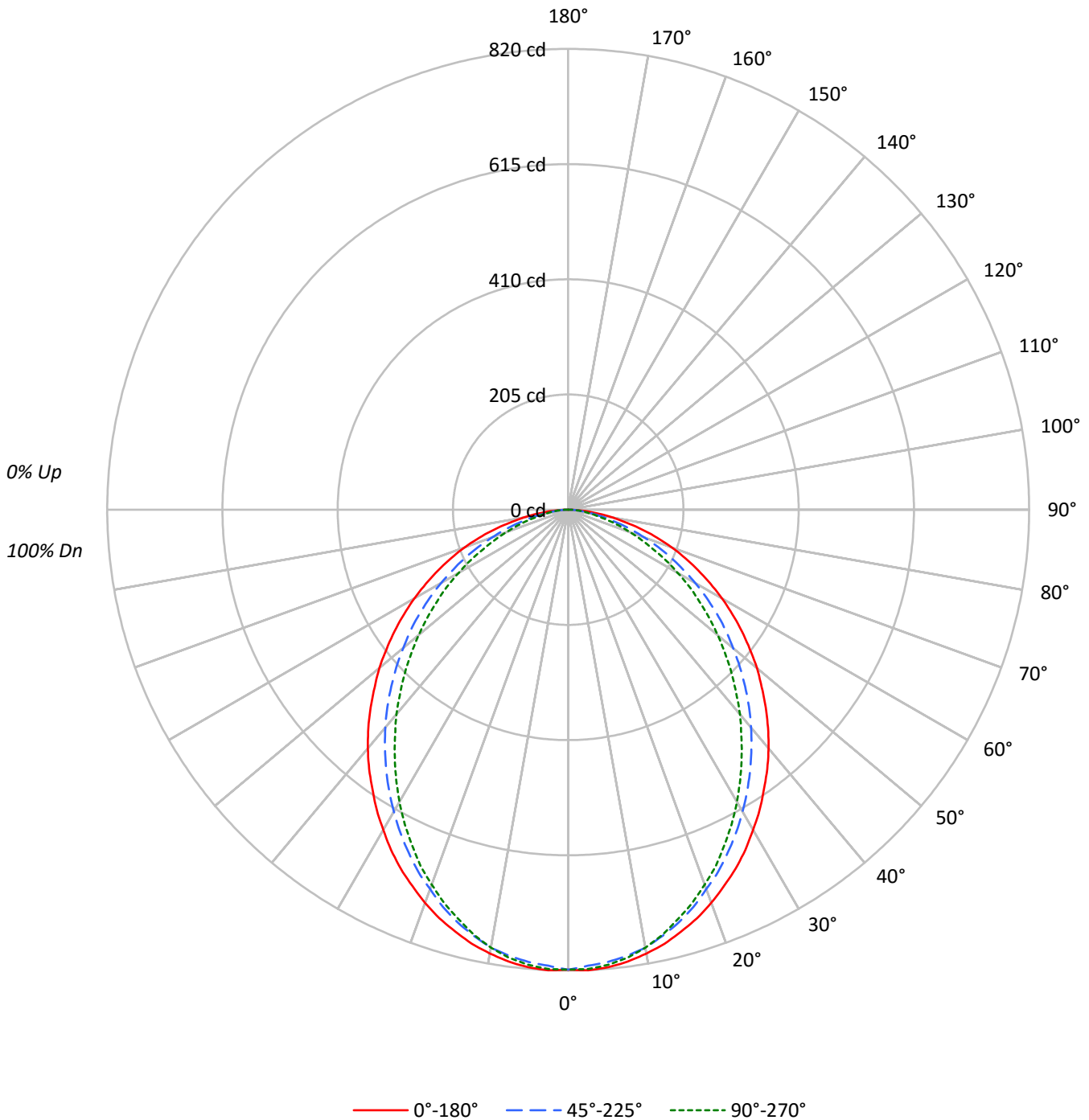
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 61 | | | | | 61 | | | |
| 4 | 84 | 73 | 64 | 58 | 82 | 71 | 64 | 57 | 69 | 62 | 57 | 67 | 61 | 56 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 49 | 60 | 54 | 49 | 58 | 53 | 48 | 46 | | | | | 46 | | | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 41 | | | | | 41 | | | |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 36 | | | | | 36 | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 33 | | | | | 33 | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 31 | 41 | 36 | 31 | 29 | | | | | 29 | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 | | | | | 27 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5286 | 5286 | 5286 |
| 5° | 5299 | 5238 | 5271 |
| 10° | 5258 | 5189 | 5189 |
| 15° | 5196 | 5084 | 5043 |
| 20° | 5115 | 4937 | 4878 |
| 25° | 5022 | 4793 | 4687 |
| 30° | 4906 | 4624 | 4477 |
| 35° | 4786 | 4450 | 4241 |
| 40° | 4675 | 4268 | 4008 |
| 45° | 4539 | 4065 | 3755 |
| 50° | 4404 | 3845 | 3490 |
| 55° | 4246 | 3634 | 3209 |
| 60° | 4088 | 3378 | 2906 |
| 65° | 3901 | 3079 | 2560 |
| 70° | 3690 | 2708 | 2206 |
| 75° | 3394 | 2283 | 1837 |
| 80° | 2990 | 1793 | 1540 |
| 85° | 2519 | 1467 | 1371 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.0 | 4.0 |
| 10°-20° | 215.3 | 11.1 |
| 20°-30° | 312.2 | 16.1 |
| 30°-40° | 355.6 | 18.4 |
| 40°-50° | 346.6 | 17.9 |
| 50°-60° | 291.7 | 15.1 |
| 60°-70° | 204.4 | 10.6 |
| 70°-80° | 104.8 | 5.4 |
| 80°-90° | 26.1 | 1.4 |
| 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° | 604.5 | 31.3 |
| 0°-40° | 960.1 | 49.6 |
| 0°-60° | 1598.5 | 82.7 |
| 0°-90° | 1933.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1933.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 818 | 818 | 818 | 818 | 818 | |
| 5° | 817 | 815 | 808 | 814 | 813 | 78 |
| 15° | 777 | 773 | 760 | 760 | 754 | 219 |
| 25° | 705 | 696 | 673 | 665 | 658 | 324 |
| 35° | 607 | 592 | 564 | 546 | 538 | 380 |
| 45° | 497 | 479 | 445 | 420 | 411 | 383 |
| 55° | 377 | 357 | 323 | 295 | 285 | 337 |
| 65° | 255 | 234 | 202 | 177 | 168 | 253 |
| 75° | 136 | 118 | 92 | 78 | 74 | 144 |
| 85° | 34 | 23 | 20 | 19 | 18 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334431

CATALOG NUMBER: S125RDP-S610D935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 818.5 | 818.5 | 818.5 | 818.5 | 818.5 |
| 2.5° | 820.4 | 818.5 | 812.3 | 818.5 | 817.9 |
| 5° | 817.3 | 814.8 | 808.0 | 814.2 | 813.0 |
| 7.5° | 811.1 | 808.6 | 800.6 | 805.5 | 804.3 |
| 10° | 801.8 | 800.0 | 791.3 | 793.2 | 791.3 |
| 12.5° | 791.3 | 788.8 | 776.5 | 777.7 | 774.6 |
| 15° | 777.1 | 773.4 | 760.4 | 759.8 | 754.2 |
| 17.5° | 762.3 | 756.7 | 741.2 | 738.2 | 733.8 |
| 20° | 744.3 | 738.2 | 718.4 | 715.3 | 709.7 |
| 22.5° | 724.6 | 718.4 | 697.4 | 690.6 | 686.2 |
| 25° | 704.8 | 695.5 | 672.6 | 664.6 | 657.8 |
| 27.5° | 682.5 | 671.4 | 647.3 | 636.8 | 630.0 |
| 30° | 657.8 | 646.0 | 620.1 | 605.9 | 600.3 |
| 32.5° | 633.7 | 619.5 | 592.9 | 576.8 | 569.4 |
| 35° | 607.1 | 592.3 | 564.4 | 546.5 | 537.9 |
| 37.5° | 581.7 | 563.8 | 535.4 | 514.4 | 505.7 |
| 40° | 554.5 | 536.0 | 506.3 | 482.8 | 475.4 |
| 42.5° | 526.1 | 506.9 | 476.0 | 453.8 | 442.0 |
| 45° | 497.0 | 479.1 | 445.1 | 420.4 | 411.1 |
| 47.5° | 466.8 | 448.2 | 414.2 | 388.9 | 378.4 |
| 50° | 438.3 | 417.9 | 382.7 | 356.7 | 347.4 |
| 52.5° | 407.4 | 386.4 | 353.6 | 325.2 | 315.9 |
| 55° | 377.1 | 357.3 | 322.7 | 294.9 | 285.0 |
| 57.5° | 346.2 | 325.2 | 291.8 | 264.6 | 255.9 |
| 60° | 316.5 | 294.9 | 261.5 | 234.3 | 225.0 |
| 62.5° | 285.0 | 264.6 | 230.6 | 205.9 | 196.6 |
| 65° | 255.3 | 234.3 | 201.5 | 176.8 | 167.5 |
| 67.5° | 225.7 | 204.6 | 173.1 | 149.6 | 142.2 |
| 70° | 195.4 | 174.3 | 143.4 | 124.3 | 116.8 |
| 72.5° | 165.7 | 145.3 | 116.8 | 99.5 | 95.2 |
| 75° | 136.0 | 117.5 | 91.5 | 77.9 | 73.6 |
| 77.5° | 105.7 | 90.9 | 69.2 | 58.7 | 55.0 |
| 80° | 80.4 | 65.5 | 48.2 | 42.7 | 41.4 |
| 82.5° | 55.6 | 42.7 | 32.1 | 30.3 | 29.7 |
| 85° | 34.0 | 22.9 | 19.8 | 19.2 | 18.5 |
| 87.5° | 14.2 | 9.9 | 9.3 | 9.3 | 8.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)