

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: P334409

Luminaire Tested: **S125RDS-S1270D830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334409
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: S125RDS-S1270D830-4F0-1E-UDD-F
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1270 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4369.8 lumens
Efficiency: N/A
Efficacy: 106.3 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

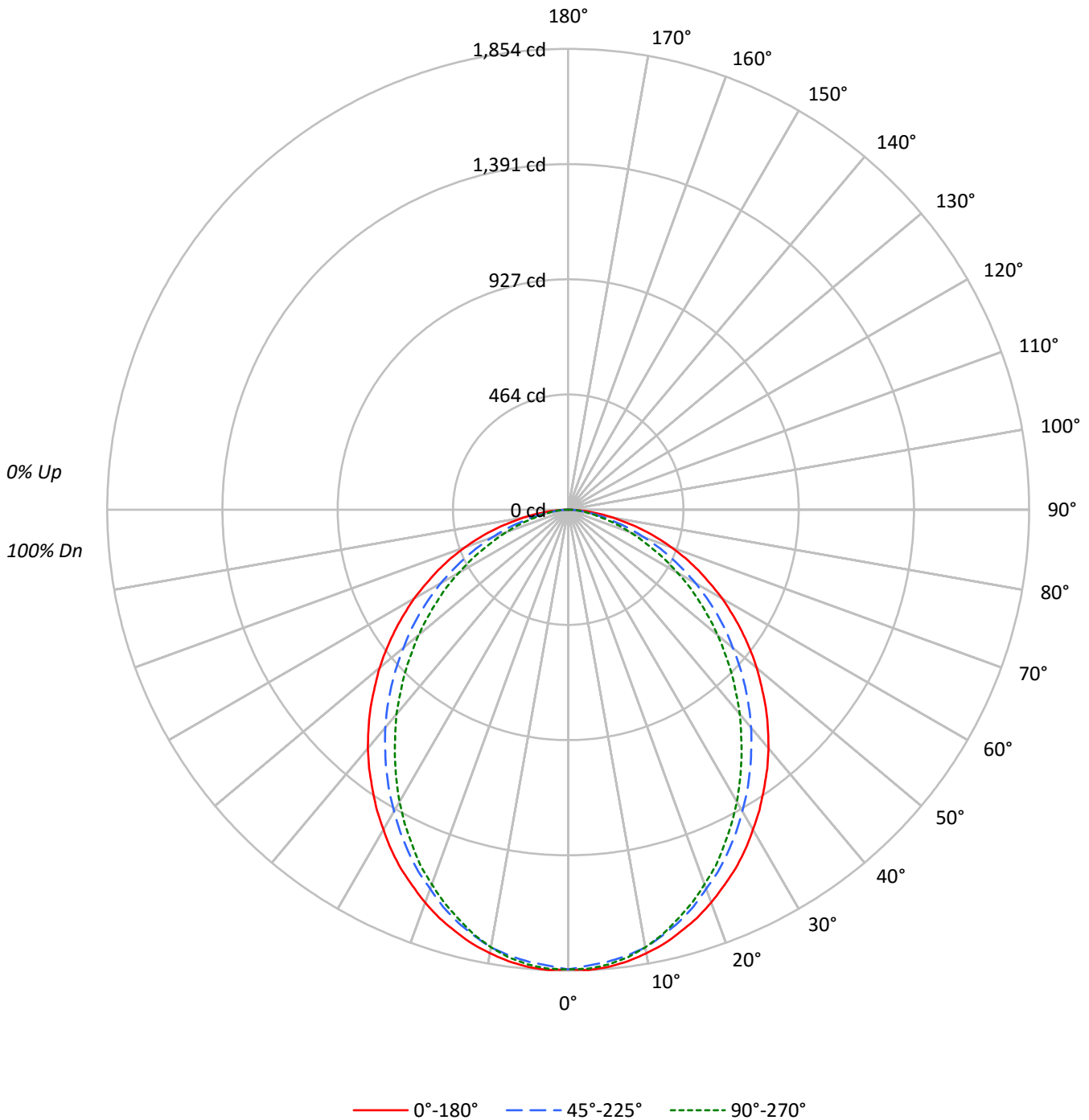
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11945 | 11945 | 11945 |
| 5° | 11972 | 11837 | 11909 |
| 10° | 11882 | 11726 | 11726 |
| 15° | 11740 | 11488 | 11395 |
| 20° | 11559 | 11156 | 11022 |
| 25° | 11348 | 10830 | 10591 |
| 30° | 11084 | 10449 | 10115 |
| 35° | 10816 | 10055 | 9582 |
| 40° | 10564 | 9646 | 9056 |
| 45° | 10258 | 9186 | 8485 |
| 50° | 9951 | 8688 | 7888 |
| 55° | 9594 | 8211 | 7251 |
| 60° | 9238 | 7632 | 6568 |
| 65° | 8816 | 6959 | 5786 |
| 70° | 8335 | 6120 | 4985 |
| 75° | 7668 | 5158 | 4147 |
| 80° | 6754 | 4054 | 3481 |
| 85° | 5691 | 3312 | 3105 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 174.1 | 4.0 |
| 10°-20° | 486.5 | 11.1 |
| 20°-30° | 705.4 | 16.1 |
| 30°-40° | 803.6 | 18.4 |
| 40°-50° | 783.3 | 17.9 |
| 50°-60° | 659.2 | 15.1 |
| 60°-70° | 461.9 | 10.6 |
| 70°-80° | 236.8 | 5.4 |
| 80°-90° | 59.1 | 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° | 1365.9 | 31.3 |
| 0°-40° | 2169.5 | 49.6 |
| 0°-60° | 3611.9 | 82.7 |
| 0°-90° | 4369.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4369.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1850 | 1850 | 1850 | 1850 | 1850 | |
| 5° | 1847 | 1841 | 1826 | 1840 | 1837 | 175 |
| 15° | 1756 | 1748 | 1718 | 1717 | 1704 | 495 |
| 25° | 1592 | 1572 | 1520 | 1502 | 1486 | 733 |
| 35° | 1372 | 1338 | 1275 | 1235 | 1215 | 859 |
| 45° | 1123 | 1083 | 1006 | 950 | 929 | 866 |
| 55° | 852 | 807 | 729 | 666 | 644 | 762 |
| 65° | 577 | 529 | 455 | 400 | 379 | 571 |
| 75° | 307 | 265 | 207 | 176 | 166 | 325 |
| 85° | 77 | 52 | 45 | 43 | 42 | 89 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334409

CATALOG NUMBER: S125RDS-S1270D830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1849.5 | 1849.5 | 1849.5 | 1849.5 | 1849.5 |
| 2.5° | 1853.7 | 1849.5 | 1835.6 | 1849.5 | 1848.1 |
| 5° | 1846.7 | 1841.1 | 1825.8 | 1839.7 | 1837.0 |
| 7.5° | 1832.8 | 1827.2 | 1809.0 | 1820.2 | 1817.4 |
| 10° | 1811.8 | 1807.6 | 1788.1 | 1792.2 | 1788.1 |
| 12.5° | 1788.1 | 1782.5 | 1754.5 | 1757.3 | 1750.3 |
| 15° | 1755.9 | 1747.5 | 1718.2 | 1716.8 | 1704.2 |
| 17.5° | 1722.4 | 1709.8 | 1674.9 | 1667.9 | 1658.1 |
| 20° | 1681.9 | 1667.9 | 1623.2 | 1616.2 | 1603.7 |
| 22.5° | 1637.2 | 1623.2 | 1575.7 | 1560.4 | 1550.6 |
| 25° | 1592.5 | 1571.5 | 1519.8 | 1501.7 | 1486.3 |
| 27.5° | 1542.2 | 1517.1 | 1462.6 | 1438.8 | 1423.5 |
| 30° | 1486.3 | 1459.8 | 1401.1 | 1369.0 | 1356.4 |
| 32.5° | 1431.8 | 1399.7 | 1339.6 | 1303.3 | 1286.6 |
| 35° | 1371.8 | 1338.3 | 1275.4 | 1234.9 | 1215.3 |
| 37.5° | 1314.5 | 1274.0 | 1209.7 | 1162.2 | 1142.7 |
| 40° | 1253.0 | 1211.1 | 1144.1 | 1091.0 | 1074.2 |
| 42.5° | 1188.8 | 1145.5 | 1075.6 | 1025.3 | 998.8 |
| 45° | 1123.1 | 1082.6 | 1005.8 | 949.9 | 929.0 |
| 47.5° | 1054.7 | 1012.8 | 935.9 | 878.7 | 854.9 |
| 50° | 990.4 | 944.3 | 864.7 | 806.0 | 785.1 |
| 52.5° | 920.6 | 873.1 | 799.0 | 734.8 | 713.8 |
| 55° | 852.1 | 807.4 | 729.2 | 666.3 | 644.0 |
| 57.5° | 782.3 | 734.8 | 659.3 | 597.9 | 578.3 |
| 60° | 715.2 | 666.3 | 590.9 | 529.4 | 508.5 |
| 62.5° | 644.0 | 597.9 | 521.1 | 465.2 | 444.2 |
| 65° | 576.9 | 529.4 | 455.4 | 399.5 | 378.6 |
| 67.5° | 509.9 | 462.4 | 391.1 | 338.1 | 321.3 |
| 70° | 441.4 | 393.9 | 324.1 | 280.8 | 264.0 |
| 72.5° | 374.4 | 328.3 | 264.0 | 224.9 | 215.1 |
| 75° | 307.3 | 265.4 | 206.7 | 176.0 | 166.2 |
| 77.5° | 238.9 | 205.3 | 156.5 | 132.7 | 124.3 |
| 80° | 181.6 | 148.1 | 109.0 | 96.4 | 93.6 |
| 82.5° | 125.7 | 96.4 | 72.6 | 68.4 | 67.1 |
| 85° | 76.8 | 51.7 | 44.7 | 43.3 | 41.9 |
| 87.5° | 32.1 | 22.4 | 21.0 | 21.0 | 19.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)