

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: P335069

Luminaire Tested: **S125IW-S1560U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IW-S1560U940-4F0-1E-UDD-1
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1560 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4825.8 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

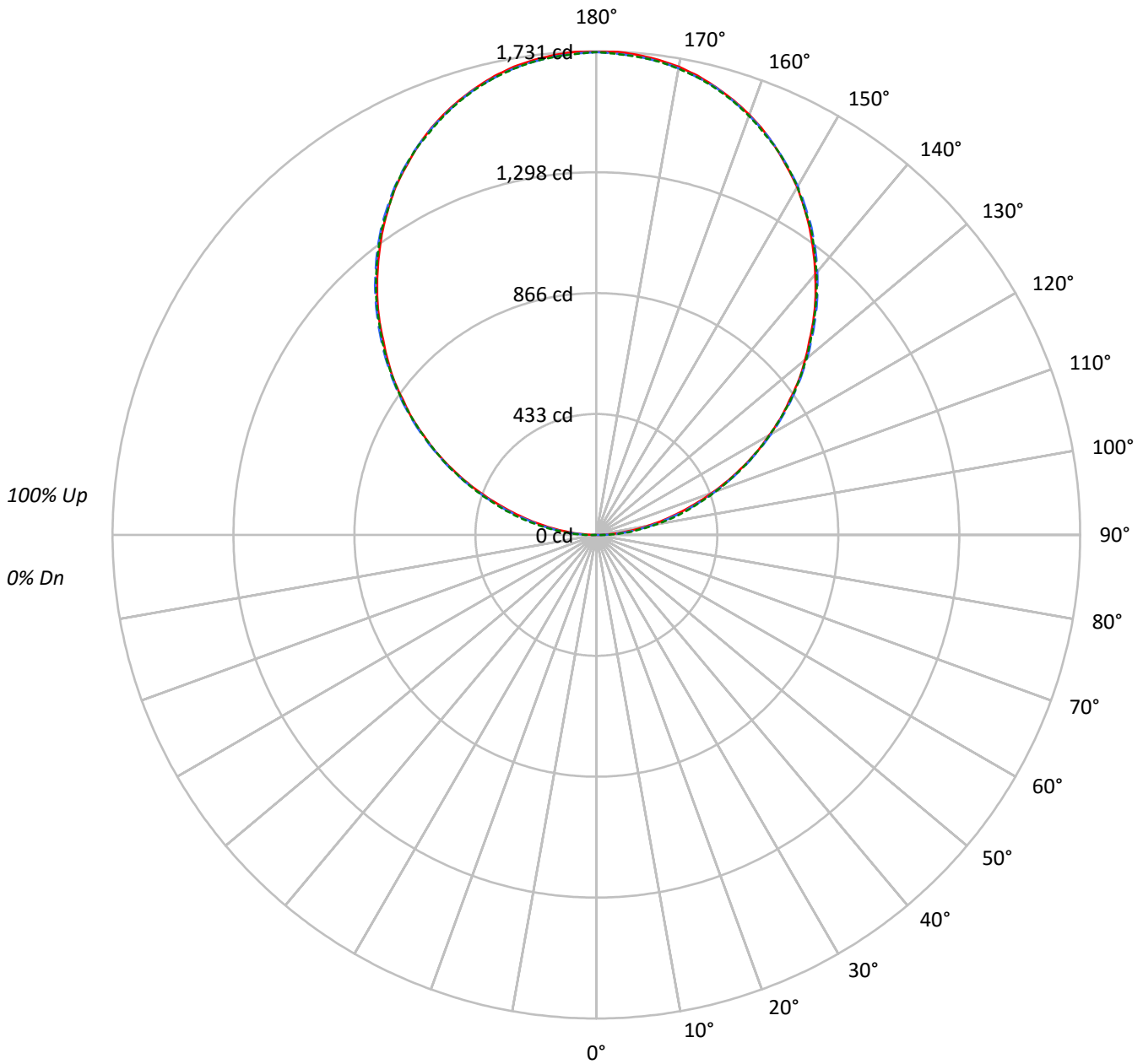
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



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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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0° | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 2.7 | 0.1 |
| 90°-100° | 114.9 | 2.4 |
| 100°-110° | 341.4 | 7.1 |
| 110°-120° | 579.0 | 12.0 |
| 120°-130° | 762.2 | 15.8 |
| 130°-140° | 854.1 | 17.7 |
| 140°-150° | 837.2 | 17.3 |
| 150°-160° | 703.2 | 14.6 |
| 160°-170° | 467.5 | 9.7 |
| 170°-180° | 163.6 | 3.4 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 2.7 | 0.1 |
| 90°-120° | 1035.3 | 21.5 |
| 90°-150° | 3488.8 | 72.3 |
| 90°-180° | 4823.0 | 99.9 |
| 0°-180° | 4825.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 0 | 0 | 0 | 0 | 0 | |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 1 | 12 | 22 | 28 | 32 | 6 |
| 95° | 87 | 90 | 104 | 113 | 116 | 91 |
| 105° | 307 | 313 | 321 | 330 | 334 | 327 |
| 115° | 580 | 585 | 588 | 586 | 585 | 573 |
| 125° | 846 | 854 | 855 | 853 | 851 | 758 |
| 135° | 1100 | 1108 | 1110 | 1110 | 1104 | 848 |
| 145° | 1333 | 1338 | 1342 | 1342 | 1338 | 833 |
| 155° | 1525 | 1525 | 1526 | 1532 | 1525 | 702 |
| 165° | 1658 | 1656 | 1657 | 1662 | 1654 | 468 |
| 175° | 1724 | 1719 | 1719 | 1727 | 1717 | 164 |
| 180° | 1728 | 1728 | 1728 | 1728 | 1728 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 1.3 | 12.1 | 21.5 | 28.2 | 32.3 |
| 92.5° | 40.3 | 47.1 | 59.2 | 68.6 | 71.3 |
| 95° | 87.4 | 90.1 | 103.6 | 113.0 | 115.7 |
| 97.5° | 134.5 | 135.8 | 154.7 | 162.7 | 164.1 |
| 100° | 188.3 | 188.3 | 205.8 | 217.9 | 220.6 |
| 102.5° | 246.1 | 252.8 | 259.6 | 273.0 | 277.0 |
| 105° | 306.6 | 313.3 | 321.4 | 329.5 | 333.5 |
| 107.5° | 372.5 | 379.2 | 386.0 | 390.0 | 390.0 |
| 110° | 441.1 | 447.8 | 451.9 | 455.9 | 454.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 511.0 | 513.7 | 519.1 | 520.5 | 517.8 |
| 115° | 579.6 | 585.0 | 587.7 | 586.4 | 585.0 |
| 117.5° | 649.6 | 650.9 | 653.6 | 654.9 | 649.6 |
| 120° | 714.1 | 720.8 | 722.2 | 722.2 | 716.8 |
| 122.5° | 784.0 | 785.4 | 789.4 | 788.1 | 784.0 |
| 125° | 845.9 | 854.0 | 855.3 | 852.6 | 851.3 |
| 127.5° | 914.5 | 918.5 | 919.9 | 918.5 | 915.8 |
| 130° | 975.0 | 981.7 | 984.4 | 983.1 | 980.4 |
| 132.5° | 1035.5 | 1047.6 | 1046.3 | 1044.9 | 1040.9 |
| 135° | 1100.1 | 1108.2 | 1109.5 | 1109.5 | 1104.1 |
| 137.5° | 1160.6 | 1168.7 | 1171.4 | 1172.7 | 1166.0 |
| 140° | 1218.4 | 1225.2 | 1229.2 | 1231.9 | 1225.2 |
| 142.5° | 1276.3 | 1281.6 | 1287.0 | 1288.4 | 1281.6 |
| 145° | 1332.7 | 1338.1 | 1342.2 | 1342.2 | 1338.1 |
| 147.5° | 1385.2 | 1389.2 | 1391.9 | 1395.9 | 1385.2 |
| 150° | 1437.6 | 1436.3 | 1441.7 | 1441.7 | 1439.0 |
| 152.5° | 1480.7 | 1483.4 | 1484.7 | 1488.7 | 1483.4 |
| 155° | 1525.1 | 1525.1 | 1526.4 | 1531.8 | 1525.1 |
| 157.5° | 1565.4 | 1562.7 | 1564.1 | 1569.4 | 1560.0 |
| 160° | 1600.4 | 1596.3 | 1597.7 | 1603.1 | 1596.3 |
| 162.5° | 1631.3 | 1628.6 | 1628.6 | 1635.3 | 1627.3 |
| 165° | 1658.2 | 1655.5 | 1656.8 | 1662.2 | 1654.2 |
| 167.5° | 1682.4 | 1677.0 | 1677.0 | 1685.1 | 1677.0 |
| 170° | 1701.2 | 1695.8 | 1695.8 | 1703.9 | 1694.5 |
| 172.5° | 1714.7 | 1709.3 | 1709.3 | 1717.4 | 1709.3 |
| 175° | 1724.1 | 1718.7 | 1718.7 | 1726.8 | 1717.4 |
| 177.5° | 1730.8 | 1725.4 | 1724.1 | 1732.2 | 1722.7 |
| 180° | 1728.1 | 1728.1 | 1728.1 | 1728.1 | 1728.1 |

(END OF REPORT)