

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: P335062

Luminaire Tested: **S125IW-S1050U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335062
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-S1050U935-4F0-1E-UDD-1
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3130.5 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

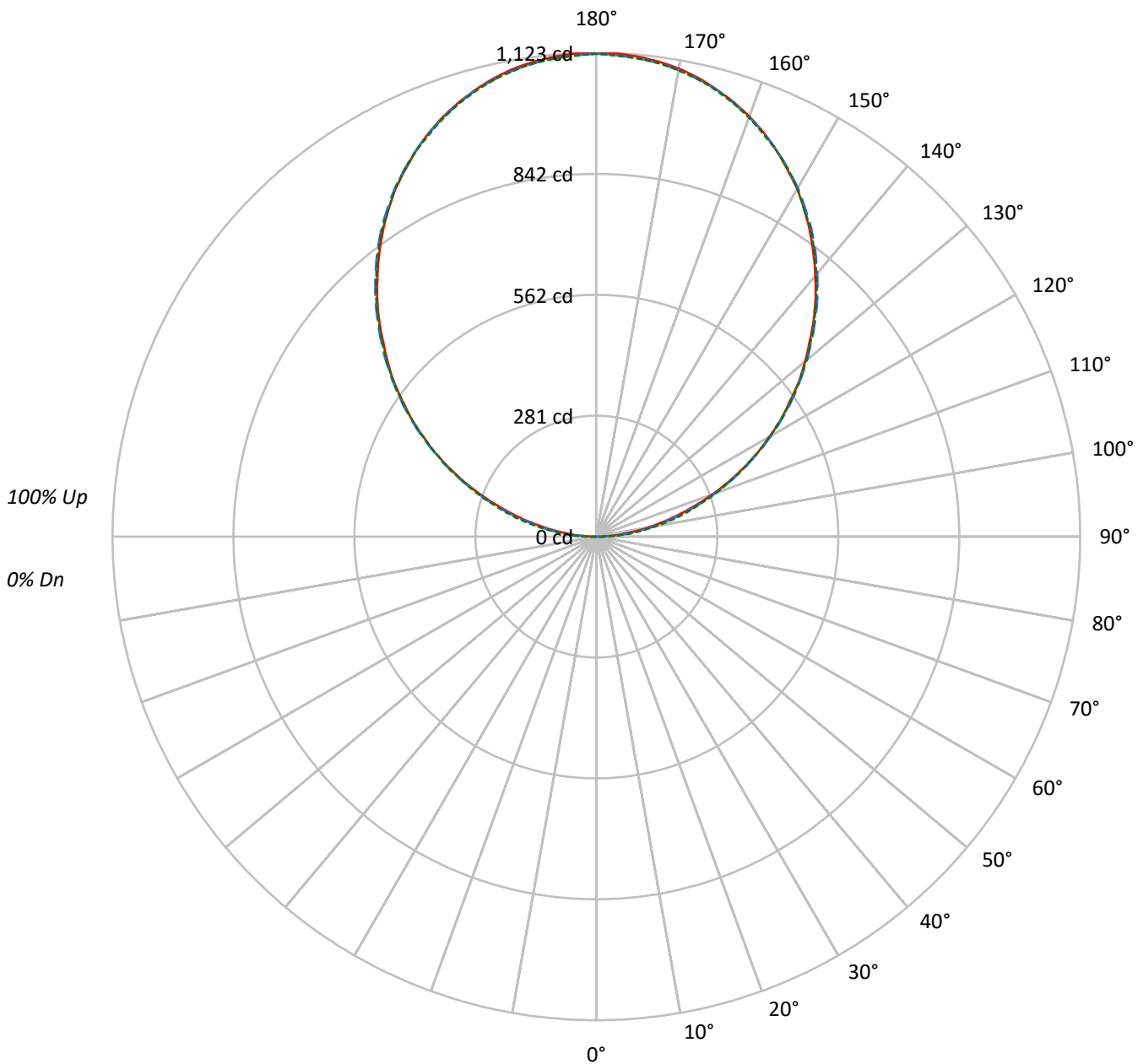
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P335062

CATALOG NUMBER: S125IW-S1050U935-4F0-1E-UDD-1

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P335062

CATALOG NUMBER: S125IW-S1050U935-4F0-1E-UDD-1

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 |



TEST NUMBER: P335062

CATALOG NUMBER: S125IW-S1050U935-4F0-1E-UDD-1

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° | 1.8 | 0.1 |
| 90°-100° | 74.5 | 2.4 |
| 100°-110° | 221.5 | 7.1 |
| 110°-120° | 375.6 | 12.0 |
| 120°-130° | 494.5 | 15.8 |
| 130°-140° | 554.1 | 17.7 |
| 140°-150° | 543.1 | 17.3 |
| 150°-160° | 456.2 | 14.6 |
| 160°-170° | 303.2 | 9.7 |
| 170°-180° | 106.1 | 3.4 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 1.8 | 0.1 |
| 90°-120° | 671.6 | 21.5 |
| 90°-150° | 2263.2 | 72.3 |
| 90°-180° | 3129.0 | 100.0 |
| 0°-180° | 3130.5 | 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 | 8 | 14 | 18 | 21 | 4 |
| 95° | 57 | 58 | 67 | 73 | 75 | 59 |
| 105° | 199 | 203 | 208 | 214 | 216 | 212 |
| 115° | 376 | 380 | 381 | 380 | 380 | 372 |
| 125° | 549 | 554 | 555 | 553 | 552 | 492 |
| 135° | 714 | 719 | 720 | 720 | 716 | 550 |
| 145° | 865 | 868 | 871 | 871 | 868 | 540 |
| 155° | 989 | 989 | 990 | 994 | 989 | 456 |
| 165° | 1076 | 1074 | 1075 | 1078 | 1073 | 304 |
| 175° | 1118 | 1115 | 1115 | 1120 | 1114 | 106 |
| 180° | 1121 | 1121 | 1121 | 1121 | 1121 | |



TEST NUMBER: P335062

CATALOG NUMBER: S125IW-S1050U935-4F0-1E-UDD-1

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° | 0.9 | 7.9 | 14.0 | 18.3 | 20.9 |
| 92.5° | 26.2 | 30.5 | 38.4 | 44.5 | 46.2 |
| 95° | 56.7 | 58.5 | 67.2 | 73.3 | 75.0 |
| 97.5° | 87.2 | 88.1 | 100.3 | 105.6 | 106.4 |
| 100° | 122.1 | 122.1 | 133.5 | 141.3 | 143.1 |
| 102.5° | 159.7 | 164.0 | 168.4 | 177.1 | 179.7 |
| 105° | 198.9 | 203.3 | 208.5 | 213.7 | 216.4 |
| 107.5° | 241.7 | 246.0 | 250.4 | 253.0 | 253.0 |
| 110° | 286.2 | 290.5 | 293.1 | 295.7 | 294.9 |



TEST NUMBER: P335062

CATALOG NUMBER: S125IW-S1050U935-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 331.5 | 333.3 | 336.8 | 337.6 | 335.9 |
| 115° | 376.0 | 379.5 | 381.2 | 380.4 | 379.5 |
| 117.5° | 421.4 | 422.2 | 424.0 | 424.9 | 421.4 |
| 120° | 463.3 | 467.6 | 468.5 | 468.5 | 465.0 |
| 122.5° | 508.6 | 509.5 | 512.1 | 511.2 | 508.6 |
| 125° | 548.8 | 554.0 | 554.9 | 553.1 | 552.2 |
| 127.5° | 593.2 | 595.9 | 596.7 | 595.9 | 594.1 |
| 130° | 632.5 | 636.9 | 638.6 | 637.7 | 636.0 |
| 132.5° | 671.8 | 679.6 | 678.7 | 677.9 | 675.3 |
| 135° | 713.6 | 718.9 | 719.7 | 719.7 | 716.3 |
| 137.5° | 752.9 | 758.1 | 759.9 | 760.7 | 756.4 |
| 140° | 790.4 | 794.8 | 797.4 | 799.1 | 794.8 |
| 142.5° | 827.9 | 831.4 | 834.9 | 835.8 | 831.4 |
| 145° | 864.6 | 868.1 | 870.7 | 870.7 | 868.1 |
| 147.5° | 898.6 | 901.2 | 903.0 | 905.6 | 898.6 |
| 150° | 932.6 | 931.7 | 935.2 | 935.2 | 933.5 |
| 152.5° | 960.5 | 962.3 | 963.1 | 965.8 | 962.3 |
| 155° | 989.3 | 989.3 | 990.2 | 993.7 | 989.3 |
| 157.5° | 1015.5 | 1013.7 | 1014.6 | 1018.1 | 1012.0 |
| 160° | 1038.2 | 1035.6 | 1036.4 | 1039.9 | 1035.6 |
| 162.5° | 1058.2 | 1056.5 | 1056.5 | 1060.9 | 1055.6 |
| 165° | 1075.7 | 1073.9 | 1074.8 | 1078.3 | 1073.1 |
| 167.5° | 1091.4 | 1087.9 | 1087.9 | 1093.1 | 1087.9 |
| 170° | 1103.6 | 1100.1 | 1100.1 | 1105.4 | 1099.2 |
| 172.5° | 1112.3 | 1108.8 | 1108.8 | 1114.1 | 1108.8 |
| 175° | 1118.4 | 1114.9 | 1114.9 | 1120.2 | 1114.1 |
| 177.5° | 1122.8 | 1119.3 | 1118.4 | 1123.7 | 1117.6 |
| 180° | 1121.1 | 1121.1 | 1121.1 | 1121.1 | 1121.1 |

(END OF REPORT)