

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: P335047

Luminaire Tested: **S125IW-S1050U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335047  
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-S1050U840-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1050 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3671.8 lumens  
Efficiency: N/A  
Efficacy: 187.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

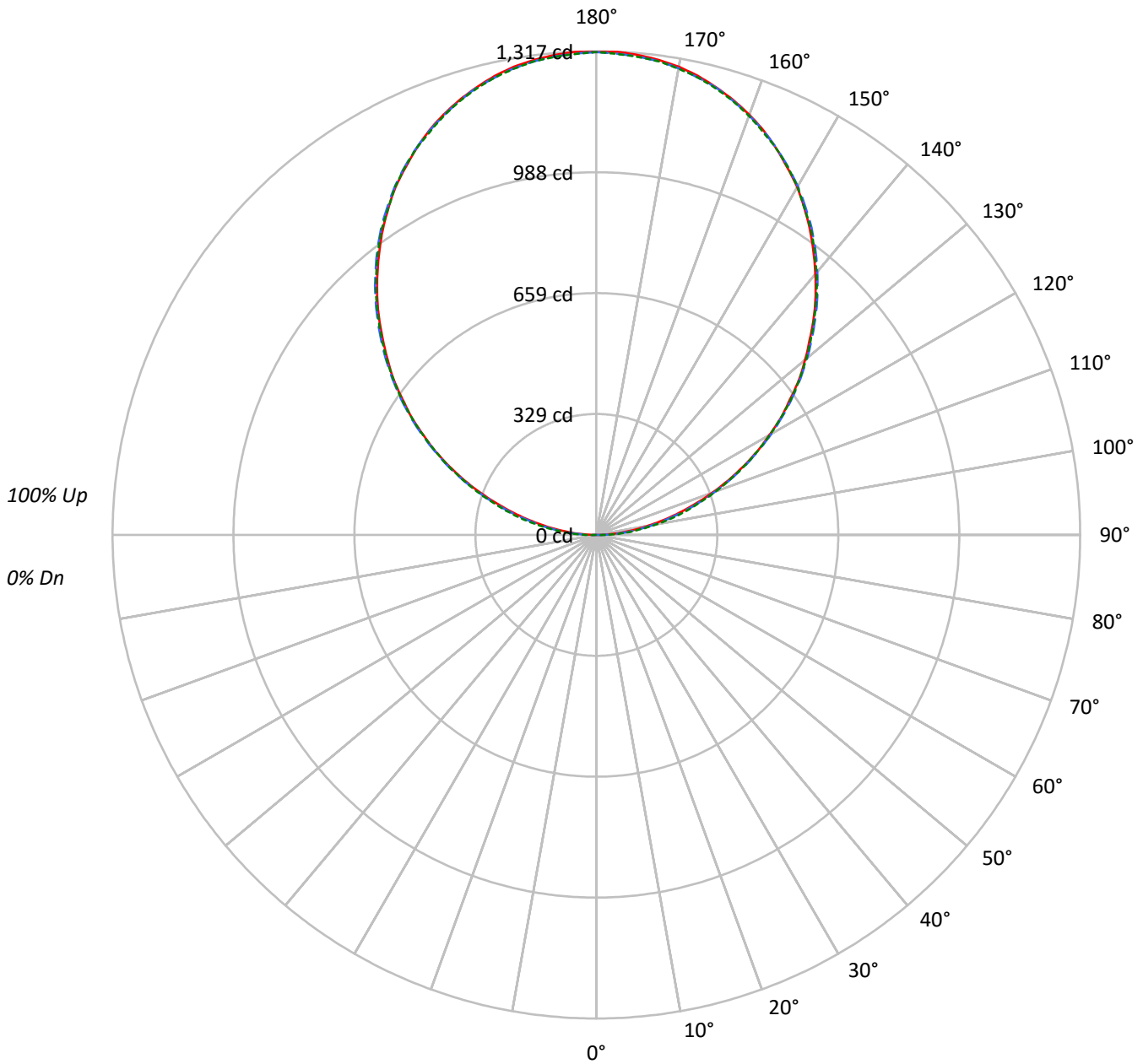
Input Watts (W): 19.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 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°   | 2.1    | 0.1       |
| 90°-100°  | 87.4   | 2.4       |
| 100°-110° | 259.8  | 7.1       |
| 110°-120° | 440.5  | 12.0      |
| 120°-130° | 580.0  | 15.8      |
| 130°-140° | 649.9  | 17.7      |
| 140°-150° | 637.0  | 17.3      |
| 150°-160° | 535.1  | 14.6      |
| 160°-170° | 355.7  | 9.7       |
| 170°-180° | 124.5  | 3.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 2.1    | 0.1       |
| 90°-120°  | 787.7  | 21.5      |
| 90°-150°  | 2654.6 | 72.3      |
| 90°-180°  | 3670.0 | 100.0     |
| 0°-180°   | 3671.8 | 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    | 9     | 16   | 22    | 25   | 4    |
| 95°  | 66   | 69    | 79   | 86    | 88   | 70   |
| 105° | 233  | 238   | 245  | 251   | 254  | 249  |
| 115° | 441  | 445   | 447  | 446   | 445  | 436  |
| 125° | 644  | 650   | 651  | 649   | 648  | 577  |
| 135° | 837  | 843   | 844  | 844   | 840  | 645  |
| 145° | 1014 | 1018  | 1021 | 1021  | 1018 | 634  |
| 155° | 1160 | 1160  | 1161 | 1166  | 1160 | 535  |
| 165° | 1262 | 1260  | 1261 | 1265  | 1259 | 356  |
| 175° | 1312 | 1308  | 1308 | 1314  | 1307 | 125  |
| 180° | 1315 | 1315  | 1315 | 1315  | 1315 |      |



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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°    | 1.0   | 9.2   | 16.4  | 21.5  | 24.6  |
| 92.5°  | 30.7  | 35.8  | 45.0  | 52.2  | 54.2  |
| 95°    | 66.5  | 68.6  | 78.8  | 86.0  | 88.0  |
| 97.5°  | 102.3 | 103.3 | 117.7 | 123.8 | 124.8 |
| 100°   | 143.3 | 143.3 | 156.6 | 165.8 | 167.8 |
| 102.5° | 187.3 | 192.4 | 197.5 | 207.7 | 210.8 |
| 105°   | 233.3 | 238.4 | 244.6 | 250.7 | 253.8 |
| 107.5° | 283.4 | 288.6 | 293.7 | 296.7 | 296.7 |
| 110°   | 335.6 | 340.7 | 343.8 | 346.9 | 345.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 388.8  | 390.9  | 395.0  | 396.0  | 394.0  |
| 115°   | 441.0  | 445.1  | 447.2  | 446.1  | 445.1  |
| 117.5° | 494.2  | 495.3  | 497.3  | 498.3  | 494.2  |
| 120°   | 543.3  | 548.5  | 549.5  | 549.5  | 545.4  |
| 122.5° | 596.6  | 597.6  | 600.7  | 599.6  | 596.6  |
| 125°   | 643.6  | 649.8  | 650.8  | 648.7  | 647.7  |
| 127.5° | 695.8  | 698.9  | 699.9  | 698.9  | 696.8  |
| 130°   | 741.9  | 747.0  | 749.0  | 748.0  | 746.0  |
| 132.5° | 787.9  | 797.1  | 796.1  | 795.1  | 792.0  |
| 135°   | 837.0  | 843.2  | 844.2  | 844.2  | 840.1  |
| 137.5° | 883.1  | 889.2  | 891.3  | 892.3  | 887.2  |
| 140°   | 927.1  | 932.2  | 935.3  | 937.3  | 932.2  |
| 142.5° | 971.1  | 975.2  | 979.3  | 980.3  | 975.2  |
| 145°   | 1014.0 | 1018.1 | 1021.2 | 1021.2 | 1018.1 |
| 147.5° | 1054.0 | 1057.0 | 1059.1 | 1062.1 | 1054.0 |
| 150°   | 1093.9 | 1092.8 | 1096.9 | 1096.9 | 1094.9 |
| 152.5° | 1126.6 | 1128.7 | 1129.7 | 1132.7 | 1128.7 |
| 155°   | 1160.4 | 1160.4 | 1161.4 | 1165.5 | 1160.4 |
| 157.5° | 1191.1 | 1189.0 | 1190.0 | 1194.1 | 1187.0 |
| 160°   | 1217.7 | 1214.6 | 1215.6 | 1219.7 | 1214.6 |
| 162.5° | 1241.2 | 1239.2 | 1239.2 | 1244.3 | 1238.1 |
| 165°   | 1261.7 | 1259.6 | 1260.7 | 1264.7 | 1258.6 |
| 167.5° | 1280.1 | 1276.0 | 1276.0 | 1282.1 | 1276.0 |
| 170°   | 1294.4 | 1290.3 | 1290.3 | 1296.5 | 1289.3 |
| 172.5° | 1304.7 | 1300.6 | 1300.6 | 1306.7 | 1300.6 |
| 175°   | 1311.8 | 1307.7 | 1307.7 | 1313.9 | 1306.7 |
| 177.5° | 1316.9 | 1312.8 | 1311.8 | 1318.0 | 1310.8 |
| 180°   | 1314.9 | 1314.9 | 1314.9 | 1314.9 | 1314.9 |

(END OF REPORT)