

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: P335013

Luminaire Tested: **S125IP-S1035U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335013  
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: S125IP-S1035U840-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 1035 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3617.8 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

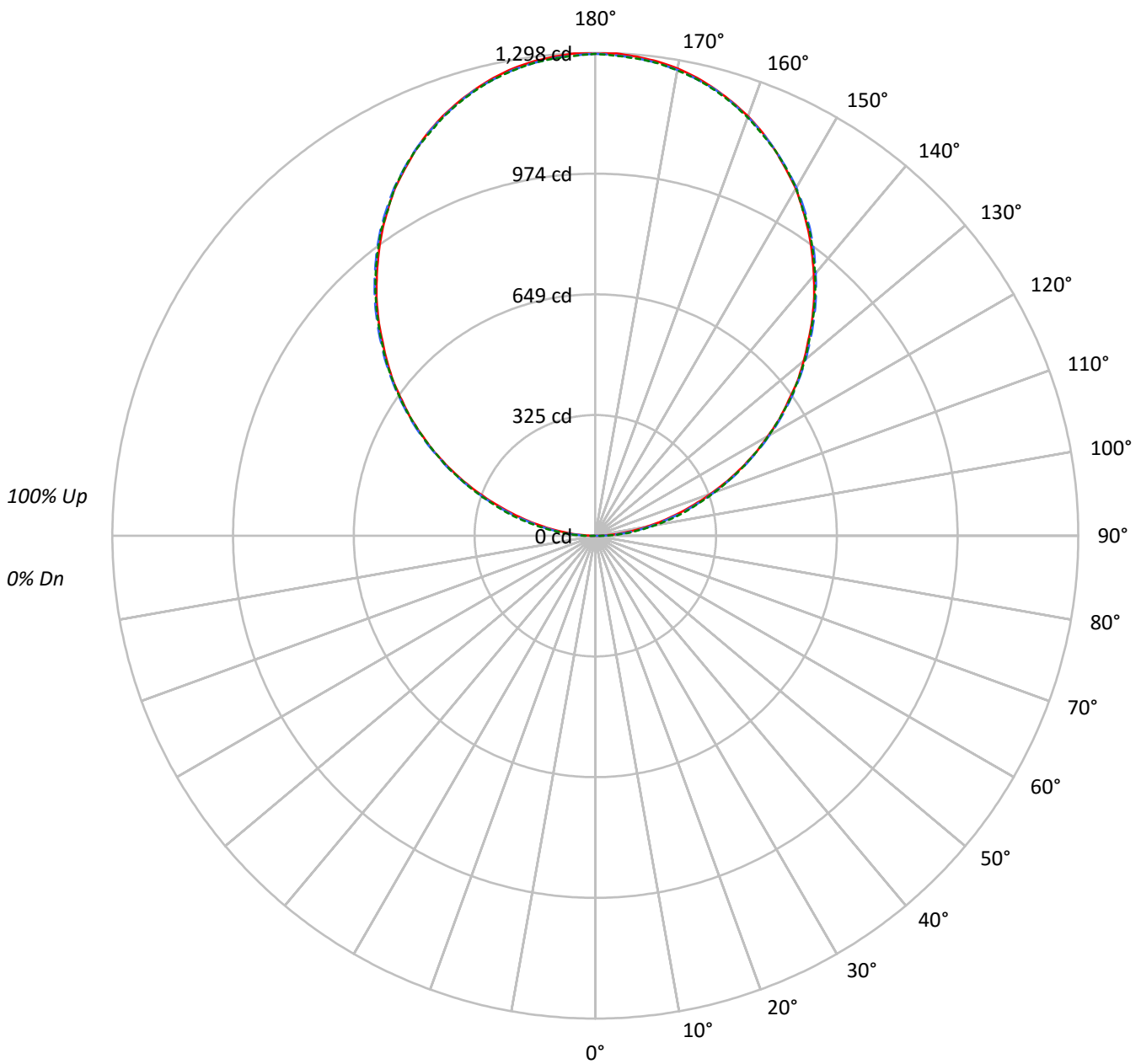
Input Watts (W): 35.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°   | 2.0    | 0.1       |
| 90°-100°  | 86.1   | 2.4       |
| 100°-110° | 255.9  | 7.1       |
| 110°-120° | 434.1  | 12.0      |
| 120°-130° | 571.4  | 15.8      |
| 130°-140° | 640.3  | 17.7      |
| 140°-150° | 627.6  | 17.3      |
| 150°-160° | 527.2  | 14.6      |
| 160°-170° | 350.4  | 9.7       |
| 170°-180° | 122.6  | 3.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 2.0    | 0.1       |
| 90°-120°  | 776.1  | 21.5      |
| 90°-150°  | 2615.5 | 72.3      |
| 90°-180°  | 3616.0 | 100.0     |
| 0°-180°   | 3617.8 | 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   | 21    | 24   | 4    |
| 95°  | 66   | 68    | 78   | 85    | 87   | 69   |
| 105° | 230  | 235   | 241  | 247   | 250  | 245  |
| 115° | 434  | 439   | 441  | 440   | 439  | 430  |
| 125° | 634  | 640   | 641  | 639   | 638  | 568  |
| 135° | 825  | 831   | 832  | 832   | 828  | 636  |
| 145° | 999  | 1003  | 1006 | 1006  | 1003 | 625  |
| 155° | 1143 | 1143  | 1144 | 1148  | 1143 | 527  |
| 165° | 1243 | 1241  | 1242 | 1246  | 1240 | 351  |
| 175° | 1292 | 1288  | 1288 | 1294  | 1288 | 123  |
| 180° | 1296 | 1296  | 1296 | 1296  | 1296 |      |



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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   | 9.1   | 16.1  | 21.2  | 24.2  |
| 92.5°  | 30.2  | 35.3  | 44.4  | 51.4  | 53.4  |
| 95°    | 65.5  | 67.5  | 77.6  | 84.7  | 86.7  |
| 97.5°  | 100.8 | 101.8 | 115.9 | 122.0 | 123.0 |
| 100°   | 141.1 | 141.1 | 154.3 | 163.3 | 165.3 |
| 102.5° | 184.5 | 189.5 | 194.6 | 204.7 | 207.7 |
| 105°   | 229.9 | 234.9 | 241.0 | 247.0 | 250.0 |
| 107.5° | 279.3 | 284.3 | 289.4 | 292.4 | 292.4 |
| 110°   | 330.7 | 335.7 | 338.8 | 341.8 | 340.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 383.1  | 385.1  | 389.2  | 390.2  | 388.2  |
| 115°   | 434.5  | 438.6  | 440.6  | 439.6  | 438.6  |
| 117.5° | 487.0  | 488.0  | 490.0  | 491.0  | 487.0  |
| 120°   | 535.4  | 540.4  | 541.4  | 541.4  | 537.4  |
| 122.5° | 587.8  | 588.8  | 591.8  | 590.8  | 587.8  |
| 125°   | 634.2  | 640.2  | 641.2  | 639.2  | 638.2  |
| 127.5° | 685.6  | 688.6  | 689.6  | 688.6  | 686.6  |
| 130°   | 730.9  | 736.0  | 738.0  | 737.0  | 735.0  |
| 132.5° | 776.3  | 785.4  | 784.4  | 783.4  | 780.3  |
| 135°   | 824.7  | 830.8  | 831.8  | 831.8  | 827.7  |
| 137.5° | 870.1  | 876.1  | 878.1  | 879.2  | 874.1  |
| 140°   | 913.4  | 918.5  | 921.5  | 923.5  | 918.5  |
| 142.5° | 956.8  | 960.8  | 964.8  | 965.9  | 960.8  |
| 145°   | 999.1  | 1003.2 | 1006.2 | 1006.2 | 1003.2 |
| 147.5° | 1038.4 | 1041.5 | 1043.5 | 1046.5 | 1038.4 |
| 150°   | 1077.8 | 1076.8 | 1080.8 | 1080.8 | 1078.8 |
| 152.5° | 1110.0 | 1112.0 | 1113.1 | 1116.1 | 1112.0 |
| 155°   | 1143.3 | 1143.3 | 1144.3 | 1148.3 | 1143.3 |
| 157.5° | 1173.5 | 1171.5 | 1172.5 | 1176.6 | 1169.5 |
| 160°   | 1199.8 | 1196.7 | 1197.7 | 1201.8 | 1196.7 |
| 162.5° | 1222.9 | 1220.9 | 1220.9 | 1226.0 | 1219.9 |
| 165°   | 1243.1 | 1241.1 | 1242.1 | 1246.1 | 1240.1 |
| 167.5° | 1261.3 | 1257.2 | 1257.2 | 1263.3 | 1257.2 |
| 170°   | 1275.4 | 1271.3 | 1271.3 | 1277.4 | 1270.3 |
| 172.5° | 1285.5 | 1281.4 | 1281.4 | 1287.5 | 1281.4 |
| 175°   | 1292.5 | 1288.5 | 1288.5 | 1294.5 | 1287.5 |
| 177.5° | 1297.6 | 1293.5 | 1292.5 | 1298.6 | 1291.5 |
| 180°   | 1295.5 | 1295.5 | 1295.5 | 1295.5 | 1295.5 |

(END OF REPORT)