

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: P335099

Luminaire Tested: **S125IP-S1205U935-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125IP-S1205U935-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1205 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4148.5 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

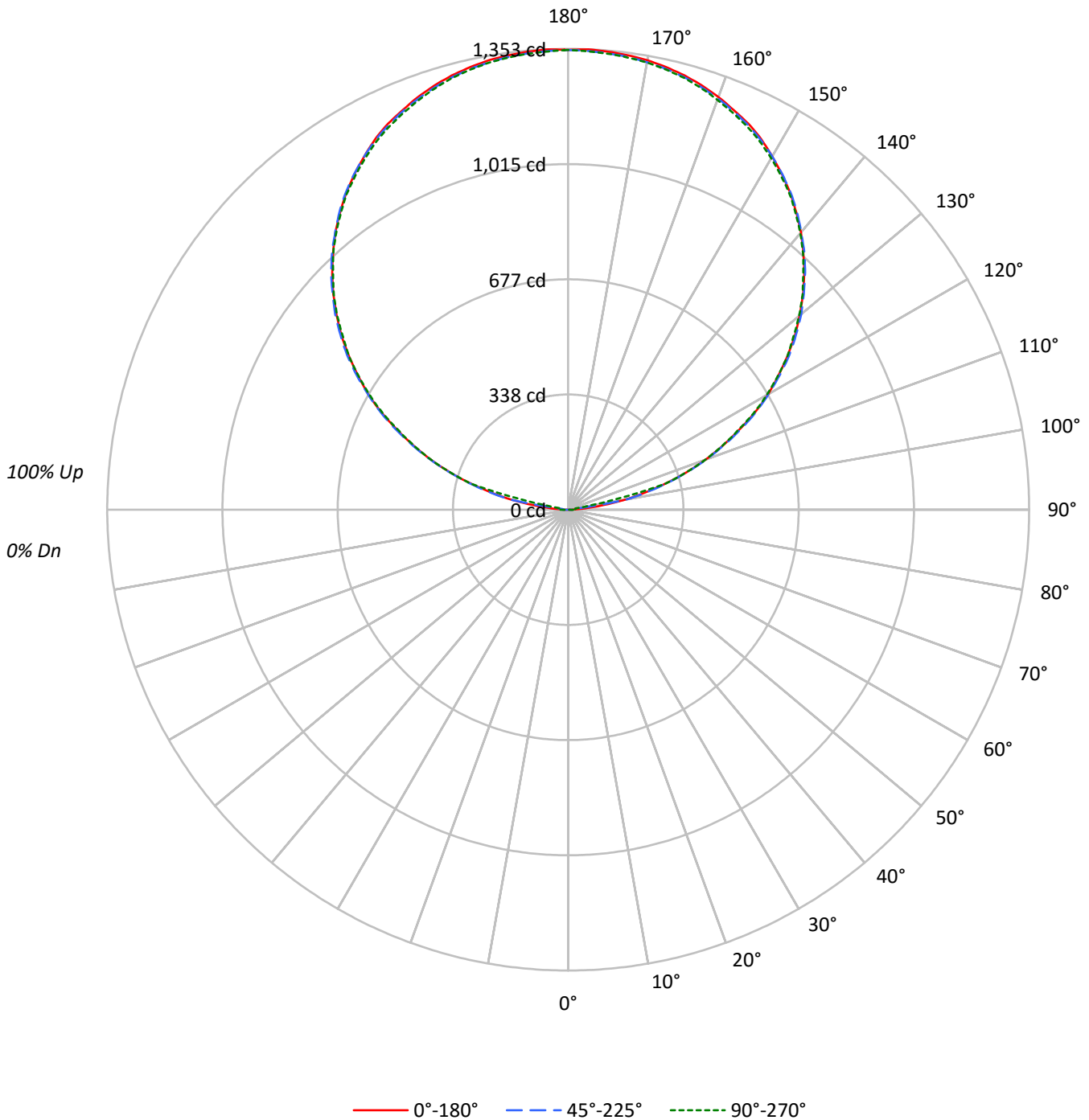
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 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    | 0.0       |
| 90°-100°  | 45.8   | 1.1       |
| 100°-110° | 304.6  | 7.3       |
| 110°-120° | 548.6  | 13.2      |
| 120°-130° | 704.2  | 17.0      |
| 130°-140° | 757.4  | 18.3      |
| 140°-150° | 710.8  | 17.1      |
| 150°-160° | 575.0  | 13.9      |
| 160°-170° | 371.8  | 9.0       |
| 170°-180° | 128.2  | 3.1       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 2.0    | 0.0       |
| 90°-120°  | 899.1  | 21.7      |
| 90°-150°  | 3071.4 | 74.0      |
| 90°-180°  | 4146.0 | 99.9      |
| 0°-180°   | 4148.5 | 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    | 9     | 16   | 21    | 24   | 3    |
| 95°  | 57   | 54    | 16   | 21    | 21   | 70   |
| 105° | 294  | 298   | 298  | 298   | 297  | 312  |
| 115° | 552  | 557   | 558  | 554   | 548  | 548  |
| 125° | 786  | 792   | 792  | 788   | 786  | 702  |
| 135° | 980  | 986   | 984  | 982   | 976  | 755  |
| 145° | 1136 | 1138  | 1138 | 1139  | 1133 | 710  |
| 155° | 1251 | 1245  | 1247 | 1250  | 1242 | 576  |
| 165° | 1320 | 1314  | 1315 | 1321  | 1313 | 373  |
| 175° | 1350 | 1344  | 1345 | 1353  | 1344 | 129  |
| 180° | 1350 | 1350  | 1350 | 1350  | 1350 |      |



TEST NUMBER: P335099

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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   | 9.0   | 16.0  | 21.0  | 24.0  |
| 92.5°  | 19.0  | 10.0  | 16.0  | 21.0  | 22.0  |
| 95°    | 57.0  | 54.0  | 16.0  | 21.0  | 21.0  |
| 97.5°  | 107.1 | 113.1 | 18.0  | 20.0  | 21.0  |
| 100°   | 167.1 | 170.1 | 174.1 | 25.0  | 21.0  |
| 102.5° | 228.1 | 232.1 | 234.1 | 236.2 | 152.1 |
| 105°   | 294.2 | 298.2 | 298.2 | 298.2 | 297.2 |
| 107.5° | 362.2 | 362.2 | 364.2 | 365.2 | 361.2 |
| 110°   | 428.3 | 428.3 | 430.3 | 427.3 | 428.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 490.3  | 493.3  | 494.3  | 490.3  | 488.3  |
| 115°   | 552.4  | 557.4  | 558.4  | 554.4  | 548.4  |
| 117.5° | 617.4  | 617.4  | 621.4  | 615.4  | 613.4  |
| 120°   | 677.4  | 676.4  | 679.4  | 677.4  | 672.4  |
| 122.5° | 730.5  | 735.5  | 736.5  | 734.5  | 728.5  |
| 125°   | 785.5  | 792.5  | 792.5  | 788.5  | 785.5  |
| 127.5° | 838.5  | 843.5  | 842.5  | 840.5  | 832.5  |
| 130°   | 886.6  | 891.6  | 892.6  | 889.6  | 884.6  |
| 132.5° | 934.6  | 940.6  | 937.6  | 937.6  | 932.6  |
| 135°   | 979.6  | 985.6  | 983.6  | 981.6  | 975.6  |
| 137.5° | 1021.7 | 1027.7 | 1025.7 | 1025.7 | 1020.7 |
| 140°   | 1062.7 | 1064.7 | 1063.7 | 1065.7 | 1059.7 |
| 142.5° | 1099.7 | 1100.7 | 1102.7 | 1102.7 | 1096.7 |
| 145°   | 1135.7 | 1137.7 | 1137.7 | 1138.7 | 1132.7 |
| 147.5° | 1167.7 | 1167.7 | 1168.7 | 1169.7 | 1162.7 |
| 150°   | 1197.8 | 1195.8 | 1197.8 | 1199.8 | 1191.8 |
| 152.5° | 1226.8 | 1221.8 | 1223.8 | 1225.8 | 1218.8 |
| 155°   | 1250.8 | 1244.8 | 1246.8 | 1249.8 | 1241.8 |
| 157.5° | 1269.8 | 1266.8 | 1266.8 | 1269.8 | 1261.8 |
| 160°   | 1289.8 | 1283.8 | 1284.8 | 1288.8 | 1280.8 |
| 162.5° | 1305.8 | 1299.8 | 1300.8 | 1306.8 | 1297.8 |
| 165°   | 1319.8 | 1313.8 | 1314.8 | 1320.8 | 1312.8 |
| 167.5° | 1330.8 | 1324.8 | 1325.8 | 1332.9 | 1323.8 |
| 170°   | 1339.9 | 1332.9 | 1333.9 | 1341.9 | 1332.9 |
| 172.5° | 1345.9 | 1338.9 | 1340.9 | 1347.9 | 1338.9 |
| 175°   | 1349.9 | 1343.9 | 1344.9 | 1352.9 | 1343.9 |
| 177.5° | 1352.9 | 1346.9 | 1347.9 | 1354.9 | 1346.9 |
| 180°   | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 |

(END OF REPORT)