

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: INVUE

Report Number: P672480

Luminaire Tested: **CCP-SA-1F-850-U-5WQ**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P672480  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-850-U-5WQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ 5WQ  
distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

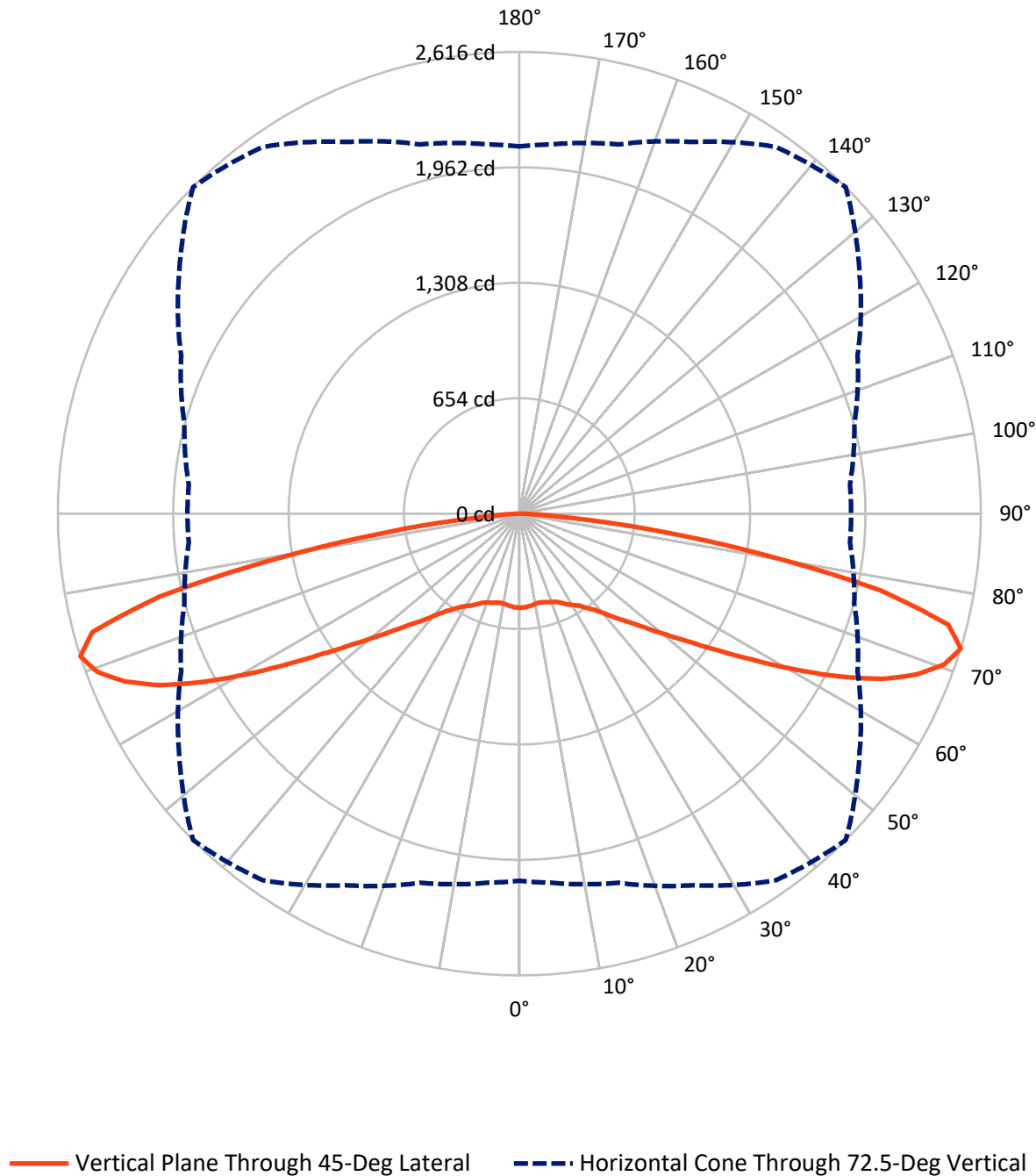
Lumens per Lamp: N/A  
Luminaire Lumens: 6857.2 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 67  
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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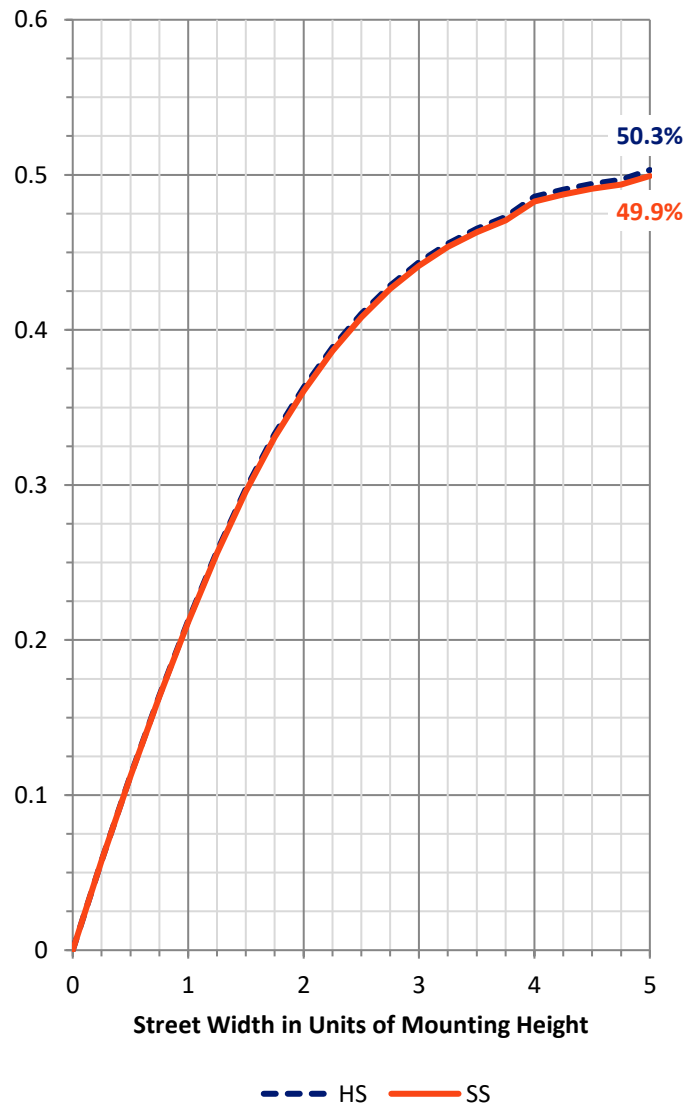
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3428.6   | 0.0    | 3428.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3428.6   | 0.0    | 3428.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6857.2   | 0.0    | 6857.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.1   | 0.7       |
| 10°-20°   | 148.9  | 2.2       |
| 20°-30°   | 261.6  | 3.8       |
| 30°-40°   | 417.4  | 6.1       |
| 40°-50°   | 698.0  | 10.2      |
| 50°-60°   | 1194.3 | 17.4      |
| 60°-70°   | 1971.7 | 28.8      |
| 70°-80°   | 1889.8 | 27.6      |
| 80°-90°   | 225.4  | 3.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 6857.2 | 100.0     |
| 0°-180°   | 6857.2 | 100.0     |



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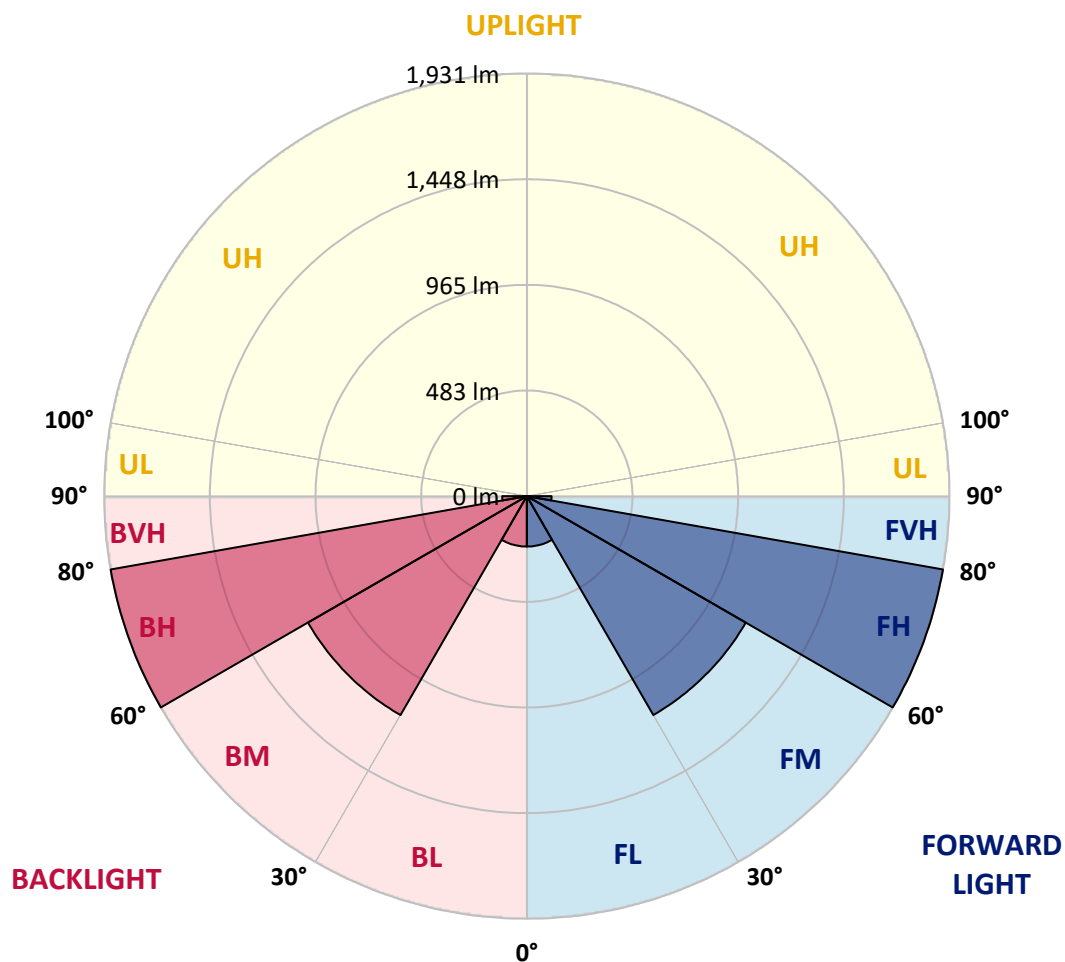
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 230.4  | 3.4       |                         |      |         |
| FM   | (30°-60°)   | 1154.8 | 16.8      |                         |      |         |
| FH   | (60°-80°)   | 1930.7 | 28.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 112.7  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 230.4  | 3.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1154.8 | 16.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1930.7 | 28.2      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 112.7  | 1.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 534.0  | 534.0  | 534.0  | 534.0  | 534.0  | 534.0  | 534.0  | 534.0  | 534.0  | 534.0  | 534.0  |
| 2.5°  | 530.6  | 530.6  | 532.1  | 532.5  | 532.1  | 531.6  | 531.1  | 530.6  | 532.1  | 531.6  | 532.1  |
| 5°    | 529.2  | 529.2  | 529.7  | 530.2  | 529.2  | 528.7  | 527.8  | 527.3  | 528.2  | 528.2  | 529.2  |
| 7.5°  | 525.4  | 524.9  | 525.4  | 525.8  | 524.4  | 523.9  | 522.5  | 522.5  | 522.5  | 522.0  | 523.0  |
| 10°   | 522.0  | 521.1  | 521.1  | 520.1  | 517.7  | 518.2  | 516.3  | 517.7  | 520.1  | 520.6  | 521.1  |
| 12.5° | 523.5  | 522.5  | 521.5  | 519.1  | 515.8  | 516.3  | 515.8  | 517.2  | 520.6  | 522.5  | 523.9  |
| 15°   | 530.2  | 529.2  | 526.8  | 522.5  | 520.6  | 520.6  | 519.6  | 520.1  | 524.9  | 527.8  | 529.2  |
| 17.5° | 537.3  | 535.4  | 531.1  | 528.2  | 526.3  | 527.8  | 524.4  | 523.9  | 527.8  | 532.1  | 533.5  |
| 20°   | 543.1  | 541.6  | 536.4  | 533.0  | 533.0  | 534.5  | 531.1  | 529.2  | 533.5  | 538.8  | 540.2  |
| 22.5° | 553.1  | 552.2  | 546.9  | 543.5  | 543.5  | 544.0  | 542.1  | 540.7  | 545.5  | 550.7  | 552.2  |
| 25°   | 567.5  | 567.5  | 562.2  | 560.8  | 560.3  | 561.3  | 558.9  | 557.4  | 561.7  | 565.6  | 567.0  |
| 27.5° | 584.2  | 582.8  | 578.5  | 577.5  | 579.4  | 582.8  | 578.5  | 574.7  | 578.0  | 581.3  | 581.8  |
| 30°   | 601.9  | 601.9  | 598.1  | 598.1  | 599.5  | 601.0  | 597.1  | 593.3  | 596.7  | 600.5  | 601.0  |
| 32.5° | 626.8  | 625.4  | 623.9  | 624.4  | 623.9  | 622.0  | 620.1  | 619.6  | 622.5  | 624.9  | 625.8  |
| 35°   | 657.4  | 656.9  | 655.0  | 656.0  | 656.0  | 656.0  | 650.3  | 648.3  | 653.1  | 655.0  | 654.1  |
| 37.5° | 704.8  | 704.3  | 699.5  | 696.7  | 693.3  | 691.9  | 684.7  | 684.2  | 695.7  | 701.4  | 700.5  |
| 40°   | 762.7  | 760.8  | 756.5  | 751.7  | 747.4  | 744.5  | 737.3  | 742.6  | 754.6  | 758.9  | 758.9  |
| 42.5° | 825.9  | 823.5  | 818.7  | 816.3  | 813.4  | 810.5  | 801.0  | 803.4  | 817.7  | 822.0  | 817.2  |
| 45°   | 903.4  | 900.0  | 894.8  | 889.5  | 885.2  | 879.4  | 874.7  | 877.0  | 892.4  | 897.6  | 893.8  |
| 47.5° | 985.7  | 984.7  | 980.4  | 976.1  | 972.3  | 968.4  | 962.2  | 966.5  | 979.9  | 979.0  | 971.3  |
| 50°   | 1072.7 | 1074.7 | 1075.1 | 1079.4 | 1076.6 | 1077.1 | 1065.6 | 1063.2 | 1073.7 | 1067.5 | 1057.9 |
| 52.5° | 1166.5 | 1169.4 | 1179.4 | 1188.1 | 1203.8 | 1205.8 | 1191.4 | 1176.1 | 1174.2 | 1157.9 | 1147.9 |
| 55°   | 1275.1 | 1274.7 | 1296.7 | 1320.6 | 1355.5 | 1366.5 | 1334.5 | 1305.8 | 1290.0 | 1258.4 | 1247.9 |
| 57.5° | 1398.1 | 1396.7 | 1430.2 | 1472.3 | 1535.4 | 1562.7 | 1503.9 | 1449.3 | 1411.0 | 1373.2 | 1362.2 |
| 60°   | 1531.6 | 1535.0 | 1575.6 | 1644.0 | 1753.1 | 1790.9 | 1701.9 | 1611.5 | 1553.1 | 1503.9 | 1499.5 |
| 62.5° | 1687.6 | 1688.1 | 1735.9 | 1828.7 | 1970.4 | 2031.1 | 1908.6 | 1786.2 | 1712.0 | 1657.9 | 1646.4 |
| 65°   | 1871.8 | 1875.2 | 1926.3 | 2020.1 | 2182.8 | 2257.9 | 2116.8 | 1967.5 | 1879.9 | 1806.7 | 1805.3 |
| 67.5° | 2060.8 | 2058.9 | 2105.8 | 2205.3 | 2362.2 | 2431.6 | 2283.8 | 2117.3 | 2003.4 | 1912.0 | 1900.0 |
| 70°   | 2181.9 | 2192.4 | 2243.1 | 2338.3 | 2488.6 | 2556.0 | 2376.1 | 2175.2 | 2056.0 | 1972.3 | 1966.5 |
| 72.5° | 2079.9 | 2099.6 | 2165.1 | 2323.0 | 2535.9 | 2615.8 | 2354.1 | 2115.3 | 1965.1 | 1880.9 | 1880.9 |
| 75°   | 1688.5 | 1721.1 | 1812.5 | 2055.5 | 2372.3 | 2510.6 | 2179.5 | 1851.2 | 1632.6 | 1542.6 | 1542.6 |
| 77.5° | 1028.7 | 1059.8 | 1183.3 | 1479.9 | 1915.8 | 2092.9 | 1776.6 | 1394.3 | 1141.2 | 1031.1 | 1016.8 |
| 80°   | 342.1  | 362.2  | 483.3  | 752.2  | 1176.1 | 1392.8 | 1190.5 | 791.9  | 511.0  | 389.5  | 387.6  |
| 82.5° | 90.9   | 99.0   | 137.8  | 218.2  | 510.5  | 754.6  | 544.5  | 261.2  | 149.8  | 116.3  | 107.2  |
| 85°   | 31.6   | 34.0   | 58.4   | 72.7   | 129.7  | 249.8  | 151.7  | 94.7   | 72.7   | 44.0   | 41.1   |
| 87.5° | 9.1    | 10.0   | 23.4   | 25.4   | 37.3   | 29.2   | 41.1   | 37.8   | 34.5   | 14.4   | 12.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)