

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: P672509

Luminaire Tested: **CCP-SA-1A-727-U-5MQ**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672509  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-727-U-5MQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ 5MQ  
distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

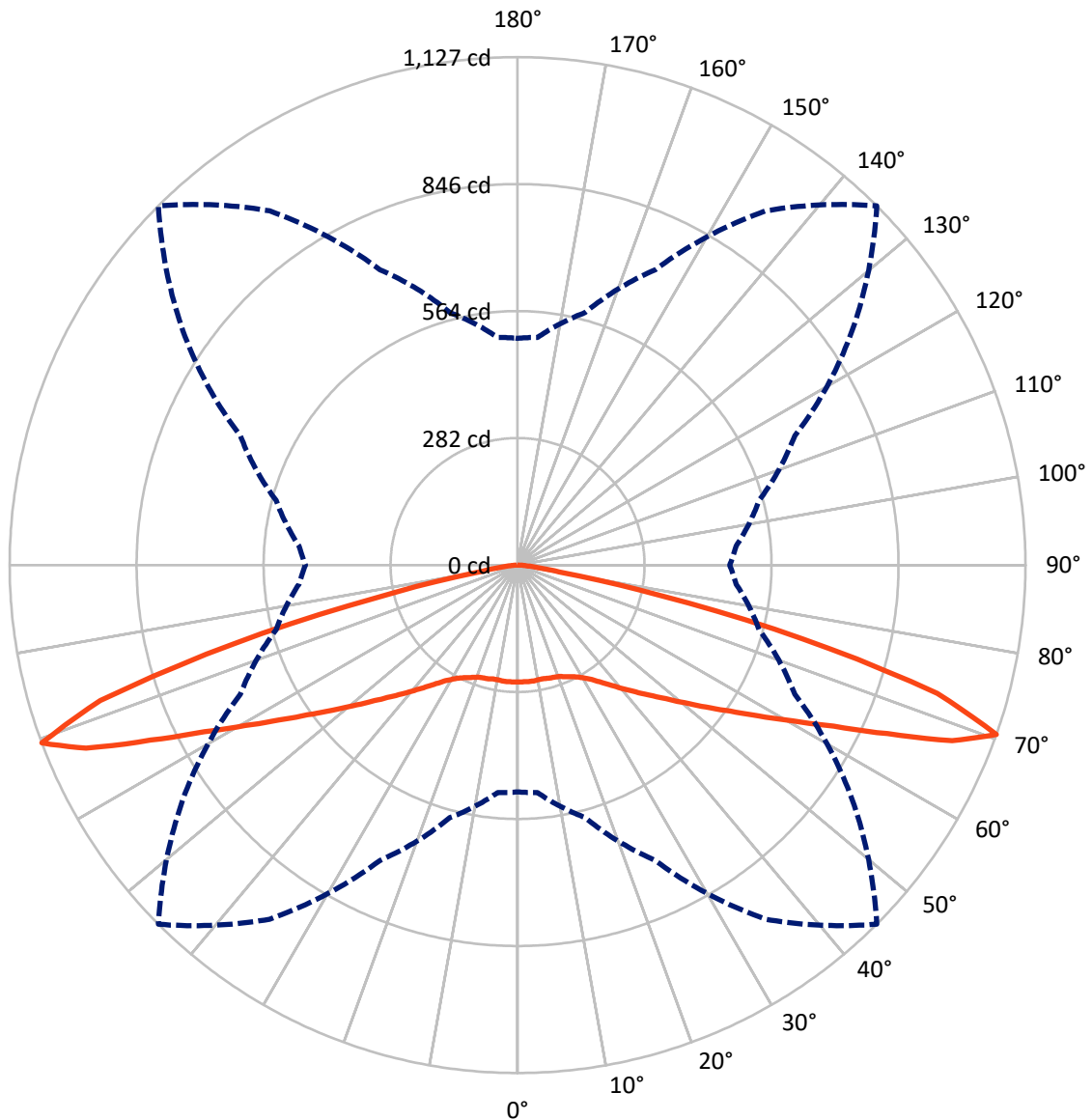
Lumens per Lamp: N/A  
Luminaire Lumens: 2361.7 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

Input Watts (W): 18  
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



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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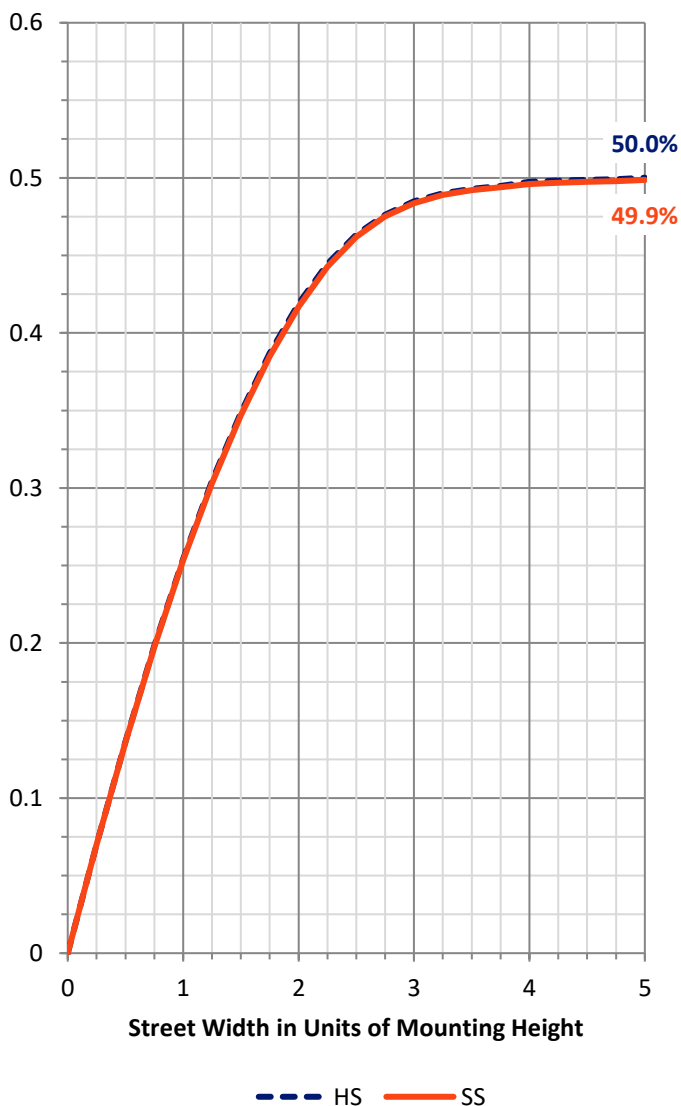
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1180.9   | 0.0    | 1180.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1180.9   | 0.0    | 1180.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2361.7   | 0.0    | 2361.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.7   | 1.0       |
| 10°-20°   | 73.1   | 3.1       |
| 20°-30°   | 124.9  | 5.3       |
| 30°-40°   | 199.3  | 8.4       |
| 40°-50°   | 321.5  | 13.6      |
| 50°-60°   | 514.9  | 21.8      |
| 60°-70°   | 753.7  | 31.9      |
| 70°-80°   | 331.5  | 14.0      |
| 80°-90°   | 18.2   | 0.8       |
| 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°    | 2361.7 | 100.0     |
| 0°-180°   | 2361.7 | 100.0     |

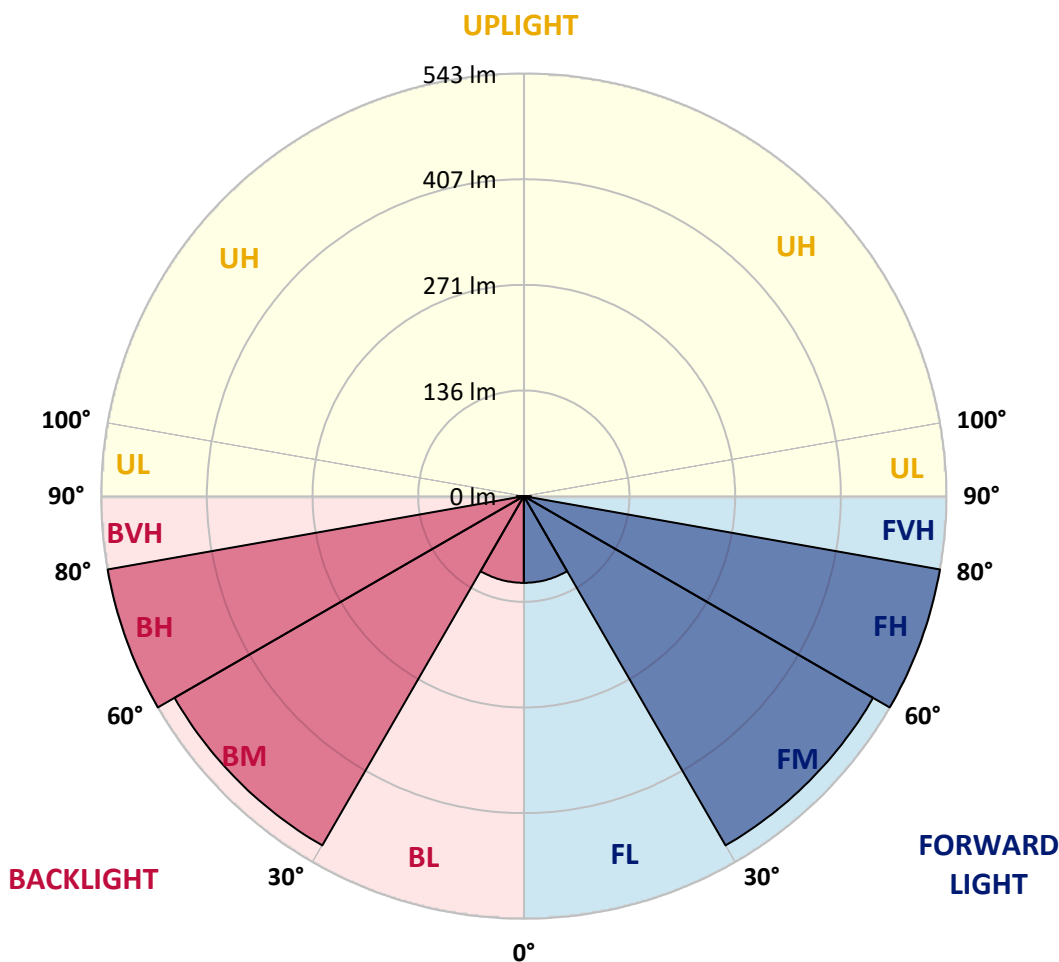


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 111.3  | 4.7       |                         |      |        |
| FM (30°-60°)   | 517.8  | 21.9      |                         |      |        |
| FH (60°-80°)   | 542.6  | 23.0      |                         |      | G0/660 |
| FVH (80°-90°)  | 9.1    | 0.4       |                         |      | G0/10  |
| BL (0°-30°)    | 111.3  | 4.7       | B1/500                  |      |        |
| BM (30°-60°)   | 517.8  | 21.9      | B1/1000                 |      |        |
| BH (60°-80°)   | 542.6  | 23.0      | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 9.1    | 0.4       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°    | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 259.7 | 259.7 | 259.7 | 259.7 | 259.7 | 259.7  | 259.7 | 259.7 | 259.7 | 259.7 | 259.7 |
| 2.5°  | 259.4 | 259.2 | 259.5 | 259.7 | 259.4 | 259.5  | 258.5 | 258.5 | 259.0 | 258.5 | 259.2 |
| 5°    | 260.6 | 260.2 | 260.6 | 260.6 | 259.7 | 259.7  | 258.5 | 258.2 | 258.5 | 257.7 | 258.4 |
| 7.5°  | 260.7 | 260.0 | 260.6 | 260.4 | 259.7 | 259.7  | 258.0 | 257.4 | 257.5 | 256.7 | 257.2 |
| 10°   | 259.0 | 258.7 | 259.4 | 259.0 | 258.5 | 258.5  | 257.2 | 256.2 | 256.2 | 255.4 | 255.9 |
| 12.5° | 258.0 | 257.7 | 258.5 | 258.7 | 258.4 | 258.5  | 256.9 | 255.5 | 255.0 | 254.0 | 254.4 |
| 15°   | 258.0 | 257.4 | 258.7 | 259.0 | 259.4 | 260.6  | 258.0 | 255.7 | 254.7 | 253.4 | 253.7 |
| 17.5° | 257.9 | 257.5 | 259.0 | 260.2 | 260.6 | 261.9  | 259.0 | 256.5 | 255.4 | 253.4 | 253.7 |
| 20°   | 257.9 | 257.7 | 259.5 | 261.7 | 262.7 | 263.9  | 260.9 | 258.5 | 256.5 | 254.4 | 254.4 |
| 22.5° | 258.7 | 258.5 | 261.1 | 264.2 | 267.1 | 269.1  | 265.6 | 261.7 | 259.0 | 256.2 | 255.9 |
| 25°   | 262.2 | 261.9 | 264.9 | 268.7 | 272.6 | 274.6  | 271.1 | 267.2 | 263.4 | 260.2 | 259.9 |
| 27.5° | 269.4 | 269.3 | 272.3 | 276.9 | 279.6 | 281.1  | 278.1 | 274.8 | 270.9 | 267.2 | 267.1 |
| 30°   | 279.1 | 279.1 | 283.0 | 287.8 | 289.3 | 290.5  | 287.5 | 285.1 | 281.1 | 277.1 | 276.8 |
| 32.5° | 290.8 | 291.5 | 296.0 | 301.4 | 302.4 | 303.1  | 299.9 | 298.4 | 294.0 | 289.7 | 289.0 |
| 35°   | 306.2 | 306.4 | 311.9 | 317.3 | 318.6 | 319.3  | 315.6 | 314.3 | 310.3 | 305.6 | 304.6 |
| 37.5° | 325.8 | 325.3 | 330.5 | 336.5 | 337.9 | 338.7  | 335.7 | 334.7 | 329.7 | 325.0 | 323.5 |
| 40°   | 347.7 | 348.1 | 353.9 | 359.6 | 360.5 | 360.8  | 359.3 | 357.8 | 353.1 | 347.7 | 345.9 |
| 42.5° | 373.2 | 373.2 | 380.0 | 386.7 | 386.7 | 385.1  | 384.4 | 384.0 | 379.5 | 373.5 | 371.5 |
| 45°   | 402.3 | 402.6 | 411.2 | 416.2 | 416.5 | 412.0  | 412.7 | 414.7 | 410.3 | 402.6 | 399.9 |
| 47.5° | 434.3 | 434.8 | 444.8 | 450.3 | 449.3 | 443.5  | 447.1 | 448.1 | 443.1 | 433.2 | 429.7 |
| 50°   | 467.9 | 469.4 | 480.6 | 490.3 | 489.0 | 480.4  | 485.3 | 485.6 | 477.4 | 466.0 | 461.2 |
| 52.5° | 504.2 | 507.7 | 522.6 | 533.0 | 534.3 | 523.6  | 527.8 | 527.5 | 516.9 | 501.4 | 498.2 |
| 55°   | 549.2 | 551.2 | 565.9 | 580.7 | 585.7 | 572.5  | 577.2 | 574.8 | 560.6 | 542.9 | 537.5 |
| 57.5° | 594.2 | 597.2 | 616.2 | 632.7 | 642.8 | 631.5  | 632.5 | 626.5 | 608.6 | 587.2 | 584.5 |
| 60°   | 647.6 | 648.9 | 669.9 | 691.5 | 708.9 | 702.2  | 697.5 | 684.9 | 663.8 | 642.4 | 638.6 |
| 62.5° | 691.3 | 694.0 | 725.1 | 756.9 | 786.3 | 787.5  | 773.3 | 754.5 | 720.9 | 685.1 | 677.4 |
| 65°   | 703.3 | 707.7 | 751.4 | 814.1 | 875.4 | 902.6  | 863.6 | 806.4 | 731.3 | 677.2 | 665.7 |
| 67.5° | 647.3 | 655.6 | 718.1 | 822.3 | 958.2 | 1040.0 | 935.6 | 781.8 | 676.9 | 613.8 | 602.8 |
| 70°   | 503.4 | 507.0 | 580.3 | 723.4 | 959.5 | 1127.4 | 906.7 | 678.9 | 554.9 | 487.1 | 470.9 |
| 72.5° | 267.4 | 269.3 | 335.4 | 487.1 | 780.8 | 973.9  | 749.2 | 475.1 | 326.6 | 265.1 | 246.5 |
| 75°   | 86.3  | 88.7  | 115.5 | 199.5 | 430.7 | 654.5  | 441.8 | 197.6 | 112.6 | 90.9  | 86.0  |
| 77.5° | 44.0  | 43.8  | 48.7  | 64.3  | 144.9 | 320.8  | 153.3 | 69.3  | 48.7  | 43.7  | 42.3  |
| 80°   | 27.4  | 26.9  | 30.6  | 35.1  | 50.7  | 93.7   | 55.1  | 38.8  | 30.8  | 26.4  | 26.3  |
| 82.5° | 15.6  | 15.6  | 20.6  | 22.6  | 28.6  | 38.7   | 32.1  | 26.6  | 21.1  | 15.7  | 15.2  |
| 85°   | 8.7   | 7.7   | 12.9  | 14.2  | 16.4  | 19.1   | 19.6  | 17.2  | 14.2  | 8.7   | 9.0   |
| 87.5° | 3.2   | 3.5   | 6.0   | 5.7   | 6.5   | 4.5    | 8.0   | 9.0   | 8.0   | 4.2   | 3.5   |
| 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)