

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: P672908

Luminaire Tested: **CCP-SA-1B-850-U-RW**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672908  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-850-U-RW  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ RW distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3065.6 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

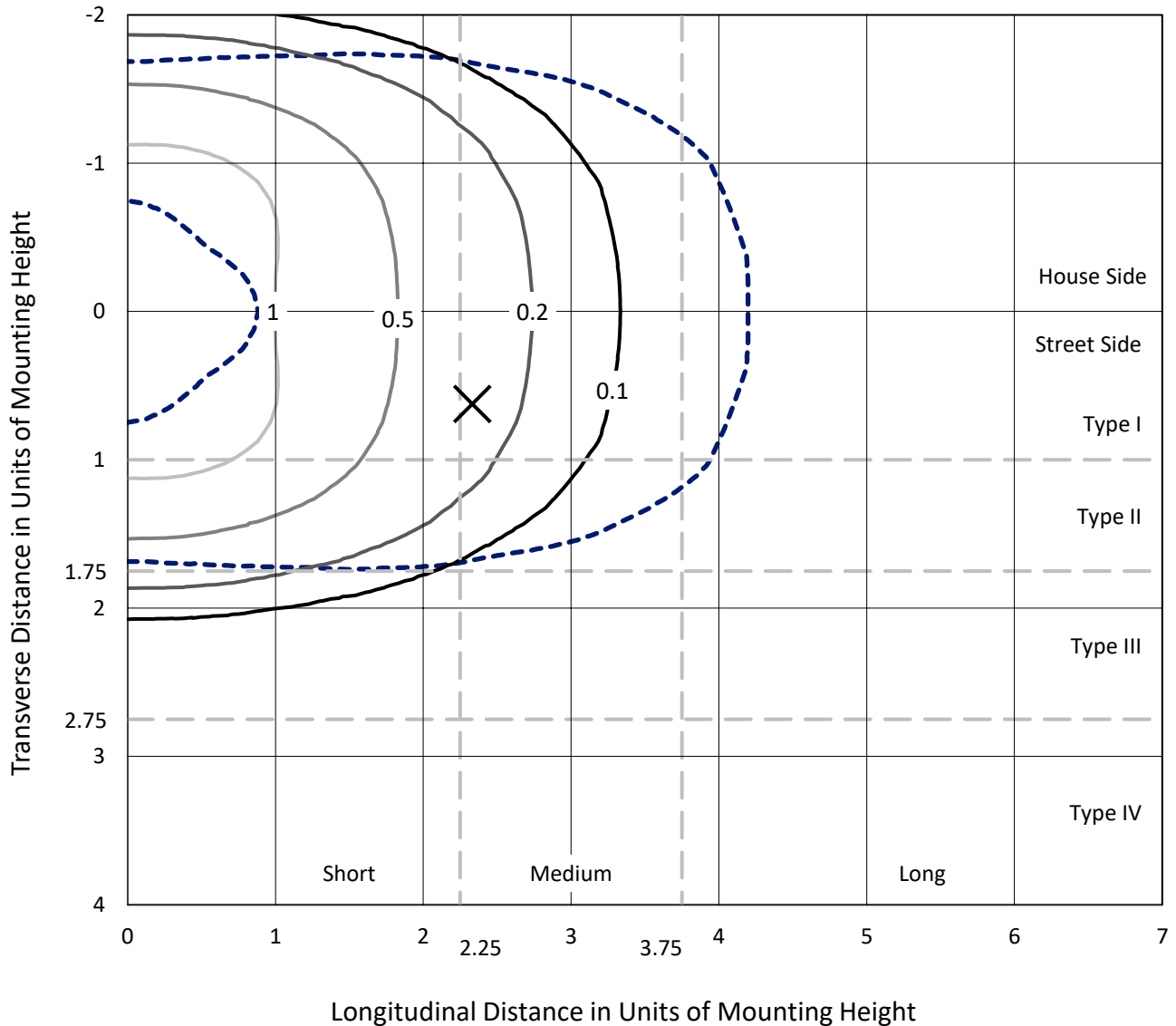
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

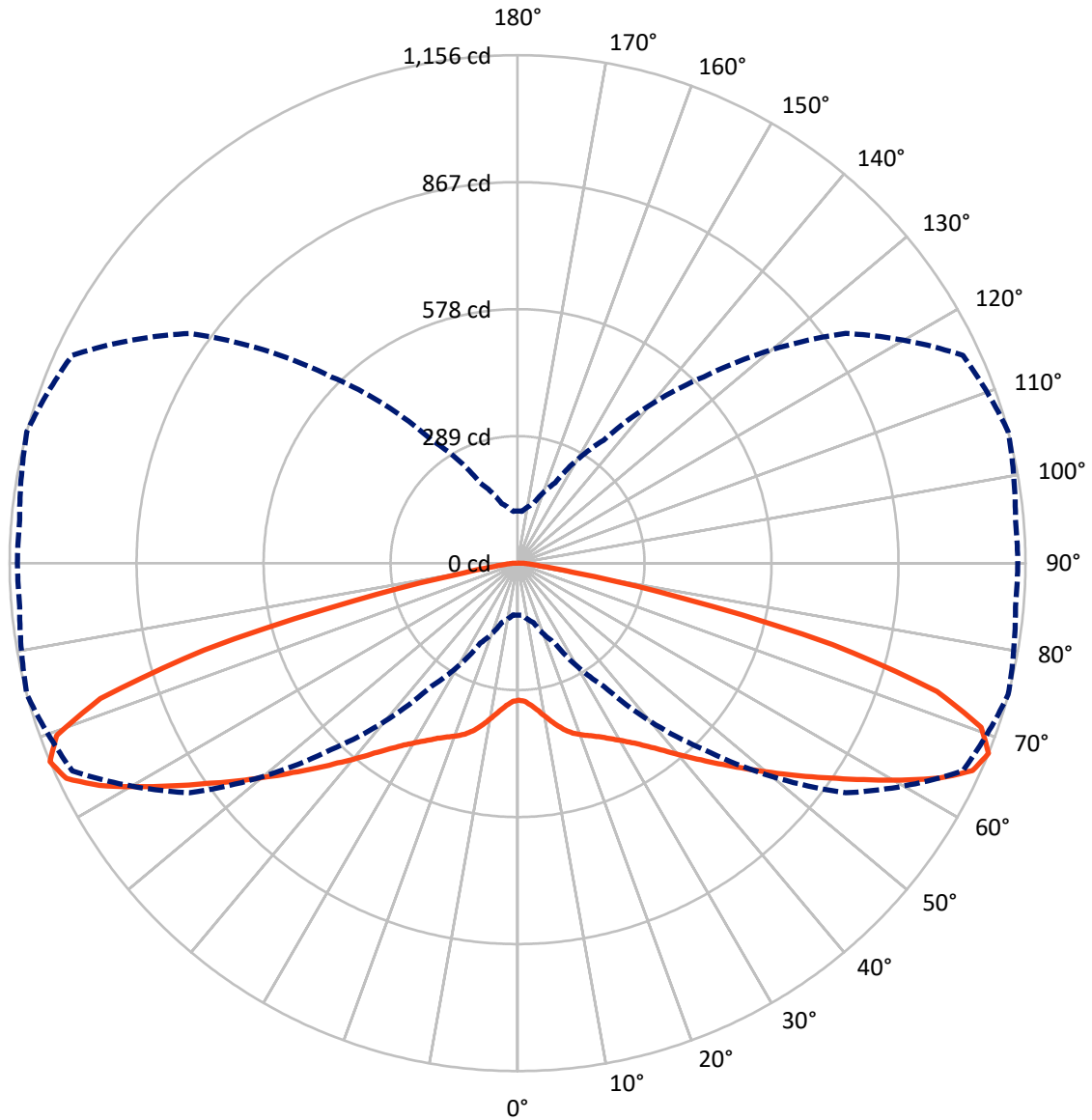
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1532.8   | 0.0    | 1532.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1532.8   | 0.0    | 1532.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3065.6   | 0.0    | 3065.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 30.9   | 1.0       |
| 10°-20°   | 104.0  | 3.4       |
| 20°-30°   | 203.0  | 6.6       |
| 30°-40°   | 350.3  | 11.4      |
| 40°-50°   | 567.4  | 18.5      |
| 50°-60°   | 771.7  | 25.2      |
| 60°-70°   | 711.9  | 23.2      |
| 70°-80°   | 297.9  | 9.7       |
| 80°-90°   | 28.4   | 0.9       |
| 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°    | 3065.6 | 100.0     |
| 0°-180°   | 3065.6 | 100.0     |

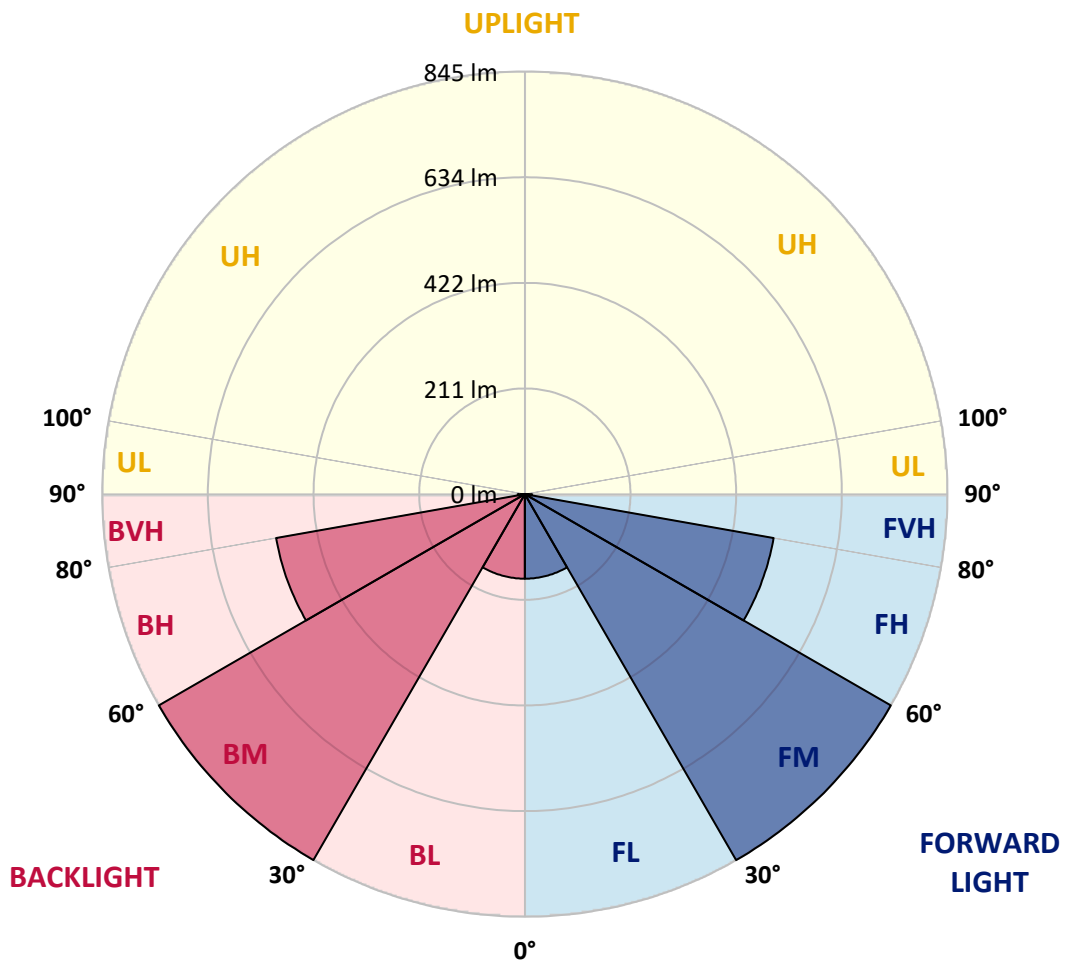


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 169.0  | 5.5       |                         |      |         |
| FM (30°-60°)   | 844.7  | 27.6      |                         |      |         |
| FH (60°-80°)   | 504.9  | 16.5      |                         |      | G0/660  |
| FVH (80°-90°)  | 14.2   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 169.0  | 5.5       | B1/500                  |      |         |
| BM (30°-60°)   | 844.7  | 27.6      | B1/1000                 |      |         |
| BH (60°-80°)   | 504.9  | 16.5      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 14.2   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0°    | 311.9 | 311.9 | 311.9 | 311.9 | 311.9 | 311.9 | 311.9  | 311.9  | 311.9  | 311.9  | 311.9  |
| 2.5°  | 309.9 | 309.9 | 310.8 | 311.9 | 312.3 | 313.2 | 313.4  | 313.4  | 314.7  | 314.5  | 314.7  |
| 5°    | 309.0 | 309.0 | 310.6 | 312.5 | 314.7 | 317.4 | 320.0  | 321.6  | 324.9  | 325.5  | 325.8  |
| 7.5°  | 309.9 | 310.1 | 312.3 | 315.6 | 319.4 | 324.2 | 329.3  | 333.5  | 339.0  | 341.0  | 342.3  |
| 10°   | 313.2 | 313.4 | 316.3 | 320.9 | 326.6 | 333.7 | 341.0  | 347.6  | 356.4  | 360.4  | 361.0  |
| 12.5° | 318.3 | 318.5 | 322.7 | 330.2 | 338.3 | 347.1 | 355.3  | 363.7  | 374.7  | 380.6  | 382.0  |
| 15°   | 326.0 | 325.3 | 331.9 | 343.0 | 354.4 | 365.4 | 372.7  | 380.9  | 392.5  | 400.3  | 402.2  |
| 17.5° | 336.6 | 337.0 | 345.2 | 359.3 | 373.4 | 384.6 | 391.9  | 396.5  | 406.6  | 414.6  | 416.6  |
| 20°   | 349.8 | 351.8 | 362.1 | 378.4 | 395.0 | 406.9 | 411.9  | 411.3  | 417.0  | 423.8  | 425.4  |
| 22.5° | 368.5 | 369.8 | 382.4 | 400.7 | 419.7 | 432.0 | 434.0  | 426.7  | 426.5  | 430.9  | 432.9  |
| 25°   | 390.6 | 391.7 | 404.9 | 426.0 | 446.1 | 459.1 | 457.1  | 444.6  | 437.9  | 438.2  | 439.5  |
| 27.5° | 416.3 | 418.6 | 432.2 | 453.8 | 474.5 | 486.4 | 483.6  | 465.3  | 452.3  | 448.3  | 447.4  |
| 30°   | 449.8 | 452.3 | 466.2 | 486.9 | 505.2 | 515.8 | 511.3  | 488.2  | 468.8  | 462.2  | 460.9  |
| 32.5° | 493.5 | 493.3 | 507.6 | 527.7 | 540.4 | 547.3 | 538.7  | 512.4  | 488.0  | 479.2  | 477.4  |
| 35°   | 538.5 | 540.7 | 554.8 | 574.2 | 583.9 | 584.3 | 570.6  | 541.1  | 512.0  | 496.8  | 493.5  |
| 37.5° | 589.1 | 590.2 | 606.6 | 624.9 | 631.2 | 627.7 | 607.4  | 574.6  | 541.1  | 525.0  | 519.3  |
| 40°   | 641.2 | 642.3 | 661.2 | 678.9 | 685.9 | 677.5 | 650.9  | 611.6  | 575.5  | 557.8  | 554.5  |
| 42.5° | 689.4 | 692.3 | 713.5 | 734.2 | 741.0 | 731.3 | 699.1  | 652.2  | 611.8  | 594.9  | 590.5  |
| 45°   | 729.5 | 732.6 | 756.4 | 782.9 | 795.0 | 787.1 | 750.7  | 697.8  | 653.7  | 635.4  | 627.9  |
| 47.5° | 759.7 | 763.7 | 789.1 | 820.8 | 844.4 | 842.8 | 805.6  | 746.1  | 698.7  | 677.1  | 670.3  |
| 50°   | 780.5 | 784.6 | 812.0 | 846.1 | 881.6 | 893.5 | 861.3  | 799.4  | 748.7  | 724.5  | 719.8  |
| 52.5° | 782.0 | 785.7 | 817.0 | 859.6 | 907.0 | 933.2 | 916.2  | 855.6  | 803.8  | 778.7  | 775.4  |
| 55°   | 747.6 | 750.3 | 791.9 | 848.6 | 917.3 | 963.6 | 966.3  | 916.9  | 862.7  | 837.3  | 835.8  |
| 57.5° | 668.7 | 672.5 | 722.3 | 797.2 | 900.1 | 983.2 | 1009.7 | 981.0  | 929.2  | 905.4  | 904.1  |
| 60°   | 540.2 | 545.1 | 601.9 | 701.6 | 838.0 | 978.2 | 1046.5 | 1041.2 | 1002.0 | 978.8  | 977.9  |
| 62.5° | 381.1 | 382.8 | 442.1 | 551.9 | 716.3 | 924.4 | 1064.3 | 1099.8 | 1077.3 | 1054.0 | 1055.3 |
| 65°   | 223.9 | 226.4 | 269.8 | 368.5 | 543.3 | 800.7 | 1033.5 | 1140.6 | 1137.7 | 1116.4 | 1118.6 |
| 67.5° | 118.4 | 118.4 | 140.2 | 201.5 | 341.6 | 599.5 | 910.7  | 1118.1 | 1155.6 | 1136.9 | 1138.0 |
| 70°   | 81.8  | 81.6  | 85.5  | 101.2 | 165.1 | 371.6 | 681.3  | 1000.4 | 1119.2 | 1112.2 | 1115.0 |
| 72.5° | 69.2  | 68.8  | 69.0  | 71.2  | 84.0  | 167.9 | 413.7  | 770.5  | 997.8  | 1008.6 | 1011.0 |
| 75°   | 60.6  | 60.0  | 59.5  | 59.1  | 60.2  | 76.3  | 188.7  | 475.4  | 739.7  | 807.6  | 806.2  |
| 77.5° | 52.2  | 51.8  | 51.4  | 49.8  | 48.0  | 50.0  | 77.1   | 213.8  | 380.4  | 449.0  | 444.1  |
| 80°   | 43.0  | 43.0  | 43.6  | 41.4  | 38.1  | 36.8  | 46.1   | 79.8   | 126.3  | 131.8  | 121.2  |
| 82.5° | 33.7  | 33.7  | 37.0  | 33.9  | 30.0  | 26.7  | 32.0   | 42.5   | 51.4   | 41.7   | 33.9   |
| 85°   | 23.8  | 24.0  | 30.9  | 28.2  | 23.1  | 15.4  | 19.8   | 25.3   | 28.9   | 18.3   | 14.3   |
| 87.5° | 9.7   | 10.4  | 19.2  | 15.2  | 14.5  | 7.7   | 9.3    | 11.2   | 14.3   | 7.7    | 6.2    |
| 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)