

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: P672798

Luminaire Tested: **CCP-SA-1B-727-U-RW**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672798  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-727-U-RW  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ RW distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

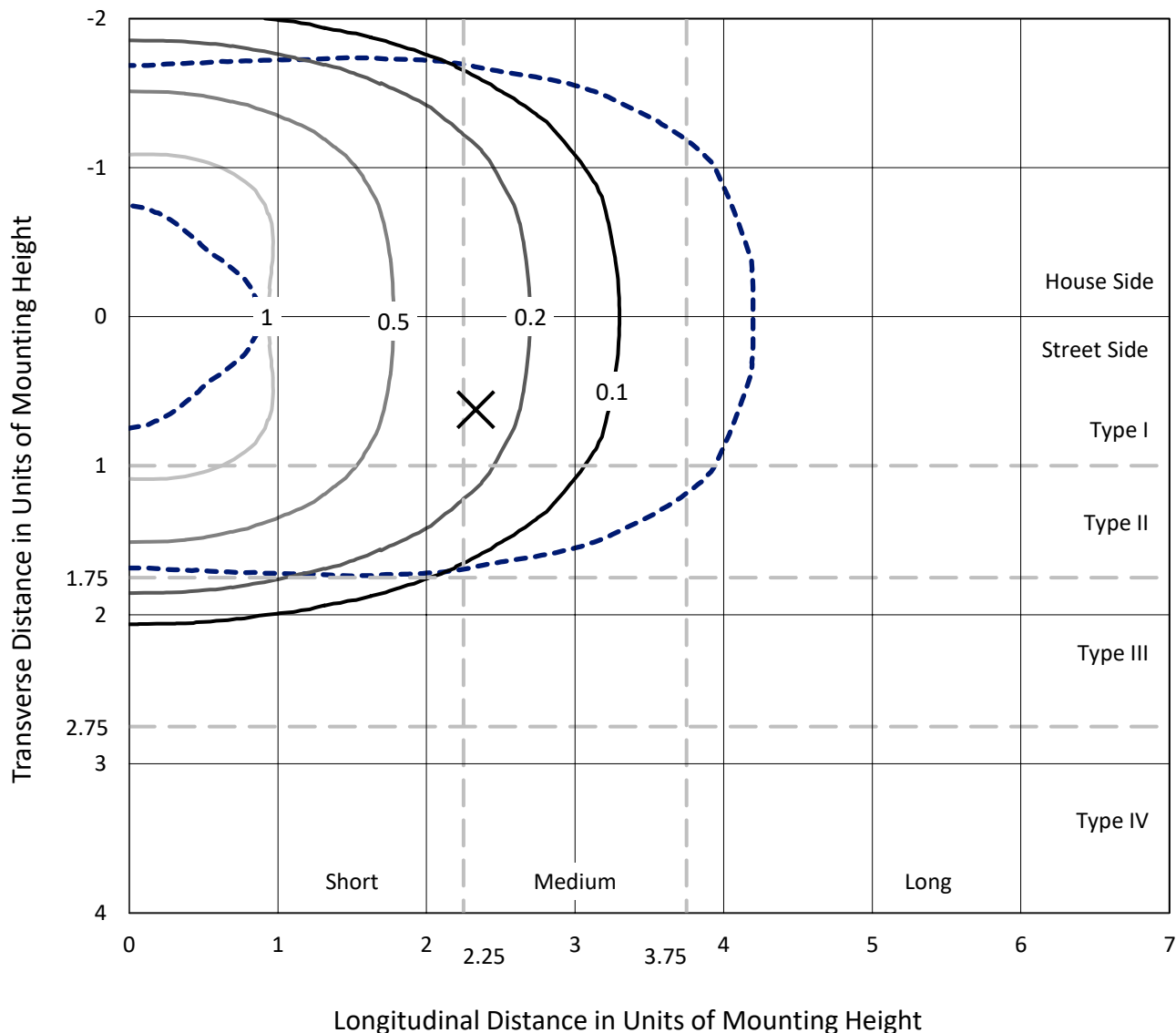
Lumens per Lamp: N/A  
Luminaire Lumens: 2938 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

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

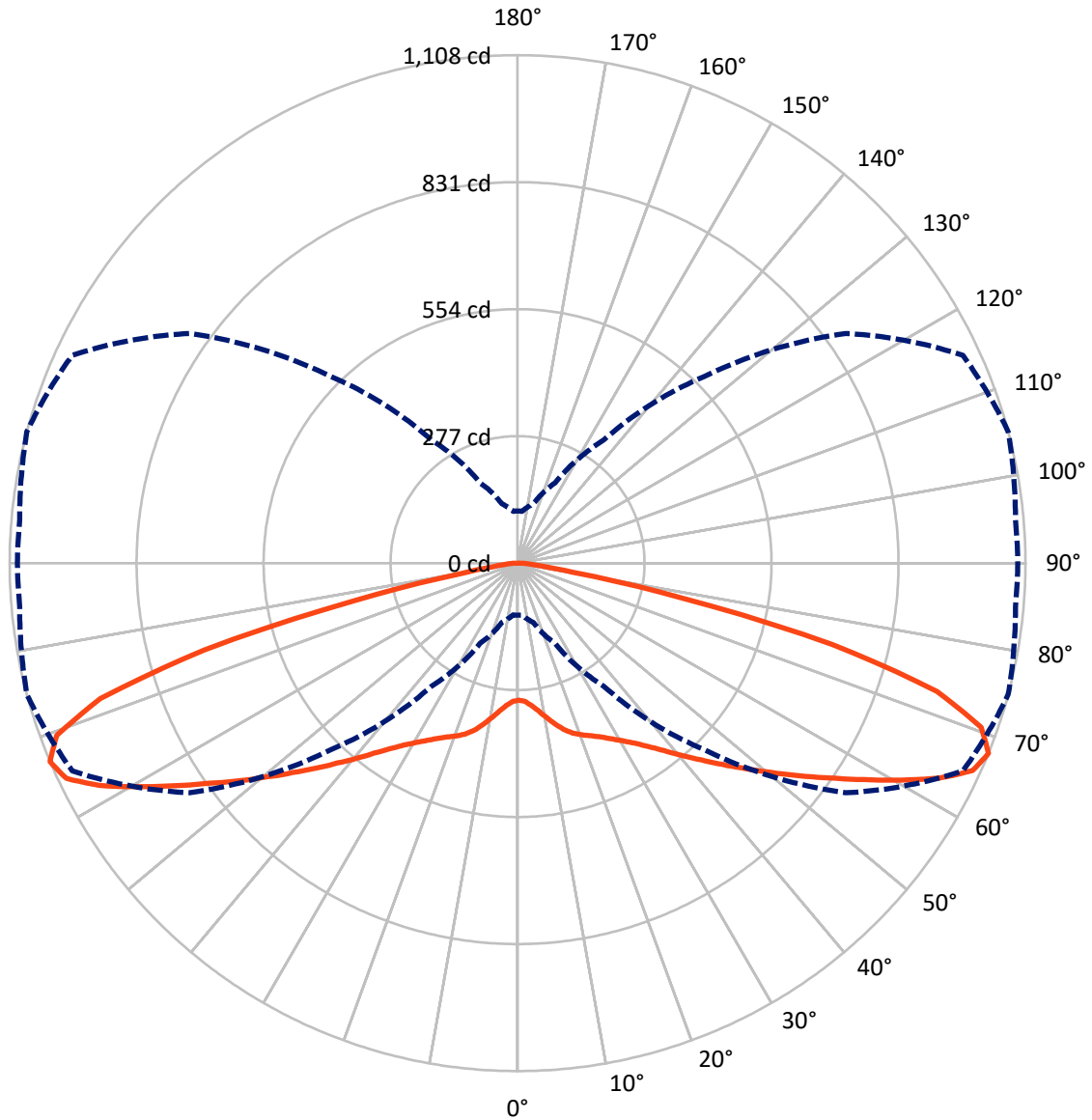
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 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    | 1469.0   | 0.0    | 1469.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1469.0   | 0.0    | 1469.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2938.0   | 0.0    | 2938.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.6   | 1.0       |
| 10°-20°   | 99.7   | 3.4       |
| 20°-30°   | 194.6  | 6.6       |
| 30°-40°   | 335.7  | 11.4      |
| 40°-50°   | 543.8  | 18.5      |
| 50°-60°   | 739.6  | 25.2      |
| 60°-70°   | 682.3  | 23.2      |
| 70°-80°   | 285.5  | 9.7       |
| 80°-90°   | 27.3   | 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°    | 2938.0 | 100.0     |
| 0°-180°   | 2938.0 | 100.0     |



REPORT NUMBER: P672798

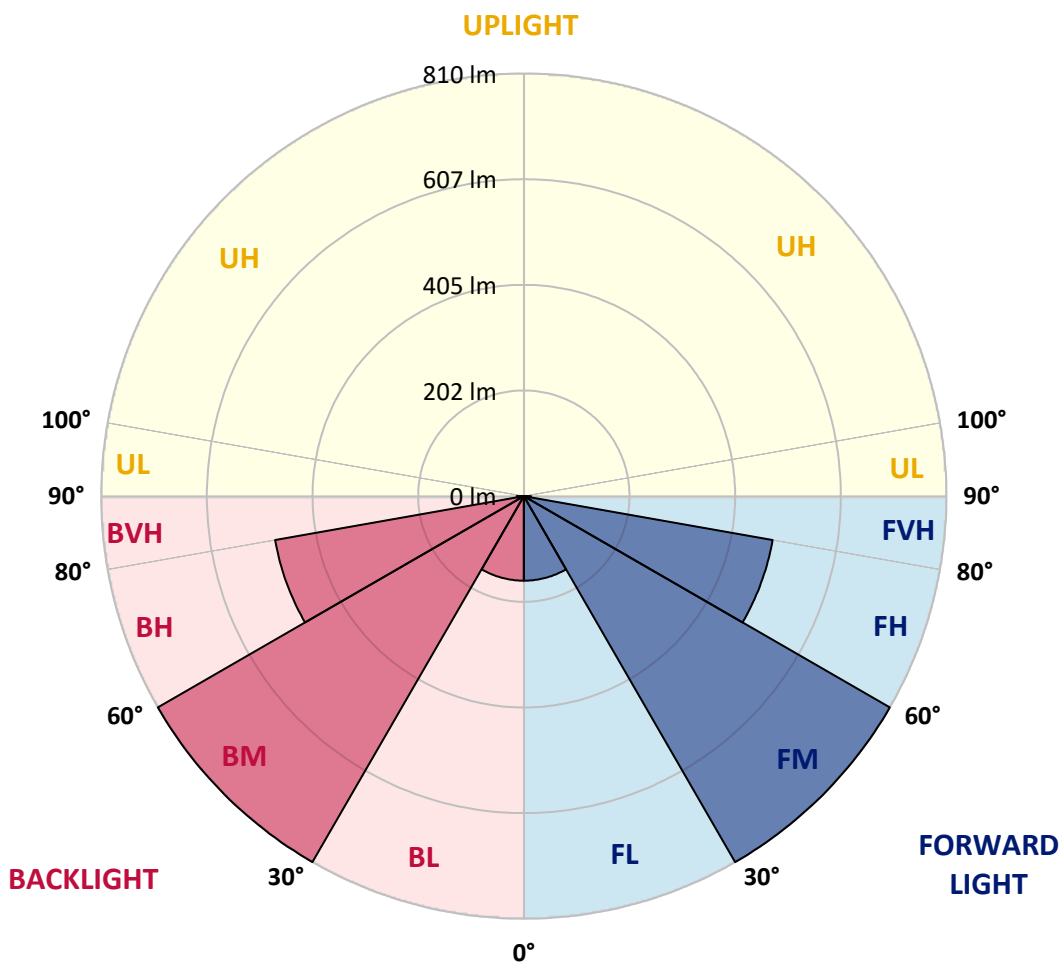
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 161.9  | 5.5       |                         |      |        |
| FM   | (30°-60°)   | 809.6  | 27.6      |                         |      |        |
| FH   | (60°-80°)   | 483.9  | 16.5      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 13.6   | 0.5       |                         |      | G1/100 |
| BL   | (0°-30°)    | 161.9  | 5.5       | B1/500                  |      |        |
| BM   | (30°-60°)   | 809.6  | 27.6      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 483.9  | 16.5      | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 13.6   | 0.5       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0°    | 298.9 | 298.9 | 298.9 | 298.9 | 298.9 | 298.9 | 298.9  | 298.9  | 298.9  | 298.9  | 298.9  |
| 2.5°  | 297.0 | 297.0 | 297.8 | 298.9 | 299.3 | 300.2 | 300.4  | 300.4  | 301.6  | 301.4  | 301.6  |
| 5°    | 296.2 | 296.2 | 297.6 | 299.5 | 301.6 | 304.2 | 306.7  | 308.2  | 311.4  | 312.0  | 312.2  |
| 7.5°  | 297.0 | 297.2 | 299.3 | 302.5 | 306.1 | 310.7 | 315.6  | 319.6  | 324.9  | 326.8  | 328.1  |
| 10°   | 300.2 | 300.4 | 303.1 | 307.6 | 313.1 | 319.8 | 326.8  | 333.1  | 341.6  | 345.4  | 346.0  |
| 12.5° | 305.0 | 305.2 | 309.3 | 316.4 | 324.2 | 332.7 | 340.5  | 348.5  | 359.1  | 364.8  | 366.1  |
| 15°   | 312.4 | 311.8 | 318.1 | 328.7 | 339.7 | 350.2 | 357.2  | 365.0  | 376.2  | 383.6  | 385.5  |
| 17.5° | 322.6 | 323.0 | 330.8 | 344.3 | 357.8 | 368.6 | 375.6  | 380.0  | 389.7  | 397.3  | 399.2  |
| 20°   | 335.2 | 337.1 | 347.1 | 362.7 | 378.5 | 389.9 | 394.8  | 394.2  | 399.7  | 406.2  | 407.7  |
| 22.5° | 353.2 | 354.5 | 366.5 | 384.0 | 402.2 | 414.0 | 415.9  | 409.0  | 408.7  | 413.0  | 414.9  |
| 25°   | 374.3 | 375.4 | 388.0 | 408.3 | 427.5 | 440.0 | 438.1  | 426.1  | 419.7  | 419.9  | 421.2  |
| 27.5° | 399.0 | 401.1 | 414.2 | 434.9 | 454.8 | 466.2 | 463.5  | 445.9  | 433.5  | 429.7  | 428.8  |
| 30°   | 431.1 | 433.5 | 446.8 | 466.6 | 484.2 | 494.3 | 490.1  | 467.9  | 449.3  | 443.0  | 441.7  |
| 32.5° | 473.0 | 472.7 | 486.5 | 505.7 | 518.0 | 524.5 | 516.3  | 491.1  | 467.7  | 459.2  | 457.5  |
| 35°   | 516.1 | 518.2 | 531.7 | 550.3 | 559.6 | 560.0 | 546.9  | 518.6  | 490.7  | 476.1  | 473.0  |
| 37.5° | 564.6 | 565.7 | 581.3 | 598.9 | 605.0 | 601.6 | 582.2  | 550.7  | 518.6  | 503.2  | 497.7  |
| 40°   | 614.5 | 615.5 | 633.7 | 650.6 | 657.4 | 649.3 | 623.8  | 586.2  | 551.5  | 534.6  | 531.5  |
| 42.5° | 660.7 | 663.5 | 683.8 | 703.6 | 710.2 | 700.9 | 670.0  | 625.1  | 586.4  | 570.1  | 565.9  |
| 45°   | 699.2 | 702.2 | 725.0 | 750.3 | 761.9 | 754.3 | 719.5  | 668.8  | 626.5  | 609.0  | 601.8  |
| 47.5° | 728.1 | 731.9 | 756.2 | 786.6 | 809.2 | 807.8 | 772.1  | 715.0  | 669.6  | 648.9  | 642.4  |
| 50°   | 748.0 | 752.0 | 778.2 | 810.9 | 844.9 | 856.4 | 825.5  | 766.2  | 717.6  | 694.3  | 689.9  |
| 52.5° | 749.5 | 753.1 | 783.1 | 823.8 | 869.2 | 894.4 | 878.1  | 820.0  | 770.4  | 746.3  | 743.1  |
| 55°   | 716.5 | 719.1 | 759.0 | 813.3 | 879.2 | 923.5 | 926.1  | 878.7  | 826.8  | 802.5  | 801.0  |
| 57.5° | 640.9 | 644.5 | 692.2 | 764.0 | 862.7 | 942.3 | 967.7  | 940.2  | 890.6  | 867.8  | 866.5  |
| 60°   | 517.7 | 522.4 | 576.9 | 672.4 | 803.1 | 937.5 | 1003.0 | 997.9  | 960.3  | 938.1  | 937.3  |
| 62.5° | 365.2 | 366.9 | 423.7 | 528.9 | 686.5 | 885.9 | 1020.1 | 1054.1 | 1032.5 | 1010.1 | 1011.4 |
| 65°   | 214.6 | 216.9 | 258.6 | 353.2 | 520.7 | 767.4 | 990.5  | 1093.2 | 1090.4 | 1069.9 | 1072.0 |
| 67.5° | 113.4 | 113.4 | 134.3 | 193.1 | 327.4 | 574.6 | 872.8  | 1071.6 | 1107.5 | 1089.6 | 1090.6 |
| 70°   | 78.4  | 78.2  | 82.0  | 97.0  | 158.2 | 356.1 | 652.9  | 958.8  | 1072.7 | 1065.9 | 1068.6 |
| 72.5° | 66.3  | 65.9  | 66.1  | 68.2  | 80.5  | 161.0 | 396.5  | 738.5  | 956.3  | 966.6  | 968.9  |
| 75°   | 58.1  | 57.5  | 57.0  | 56.6  | 57.7  | 73.1  | 180.8  | 455.6  | 708.9  | 774.0  | 772.7  |
| 77.5° | 50.1  | 49.6  | 49.2  | 47.7  | 46.0  | 48.0  | 73.9   | 204.9  | 364.6  | 430.3  | 425.6  |
| 80°   | 41.2  | 41.2  | 41.8  | 39.7  | 36.5  | 35.3  | 44.1   | 76.5   | 121.0  | 126.3  | 116.2  |
| 82.5° | 32.3  | 32.3  | 35.5  | 32.5  | 28.7  | 25.6  | 30.6   | 40.8   | 49.2   | 39.9   | 32.5   |
| 85°   | 22.8  | 23.0  | 29.6  | 27.0  | 22.2  | 14.8  | 19.0   | 24.3   | 27.7   | 17.5   | 13.7   |
| 87.5° | 9.3   | 9.9   | 18.4  | 14.6  | 13.9  | 7.4   | 8.9    | 10.8   | 13.7   | 7.4    | 5.9    |
| 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)