

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: P672615

Luminaire Tested: **CCP-SA-2B-840-U-5MQ**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672615
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-840-U-5MQ
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ 5MQ
distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

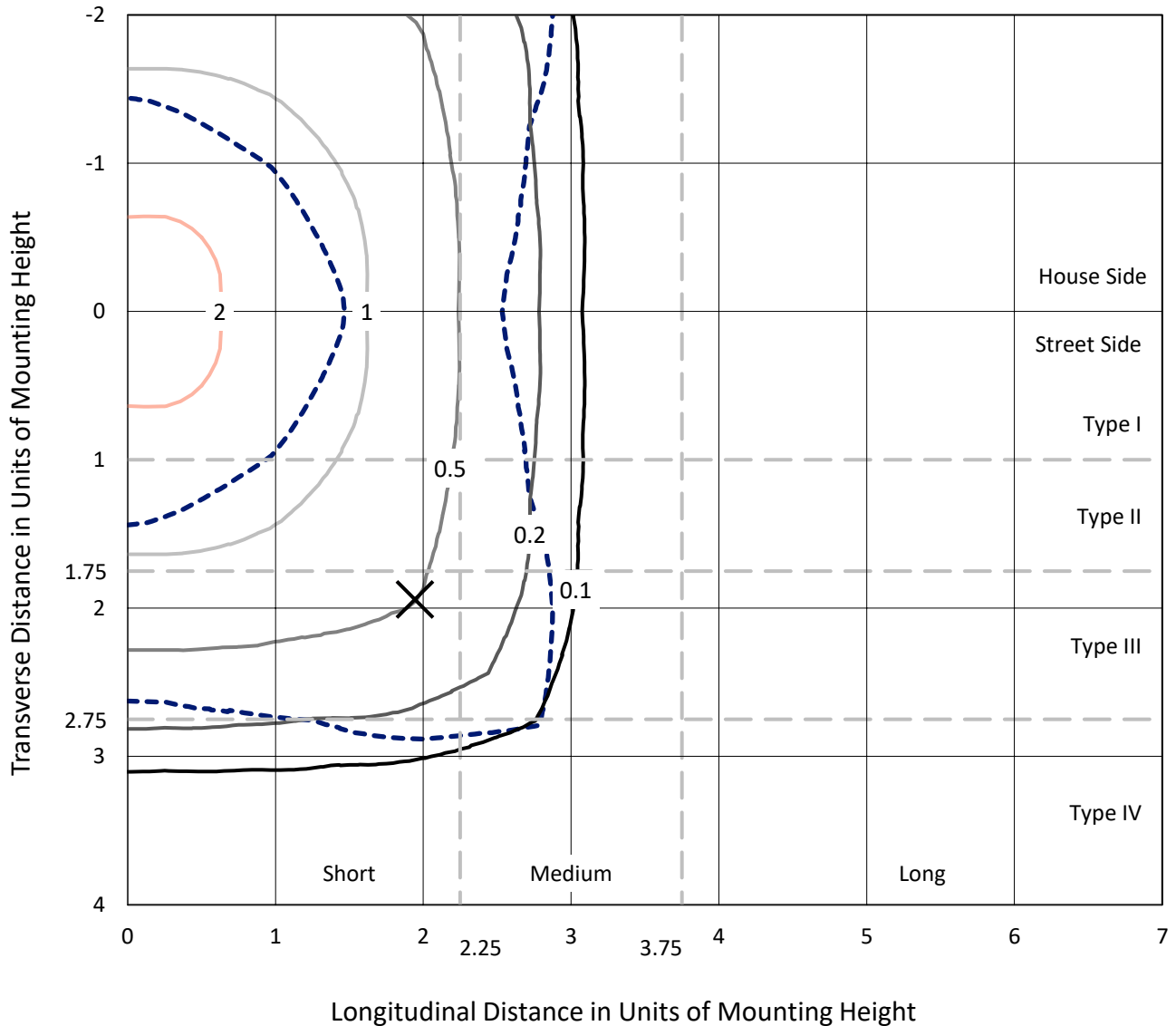
Lumens per Lamp: N/A
Luminaire Lumens: 6078.1 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 46
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

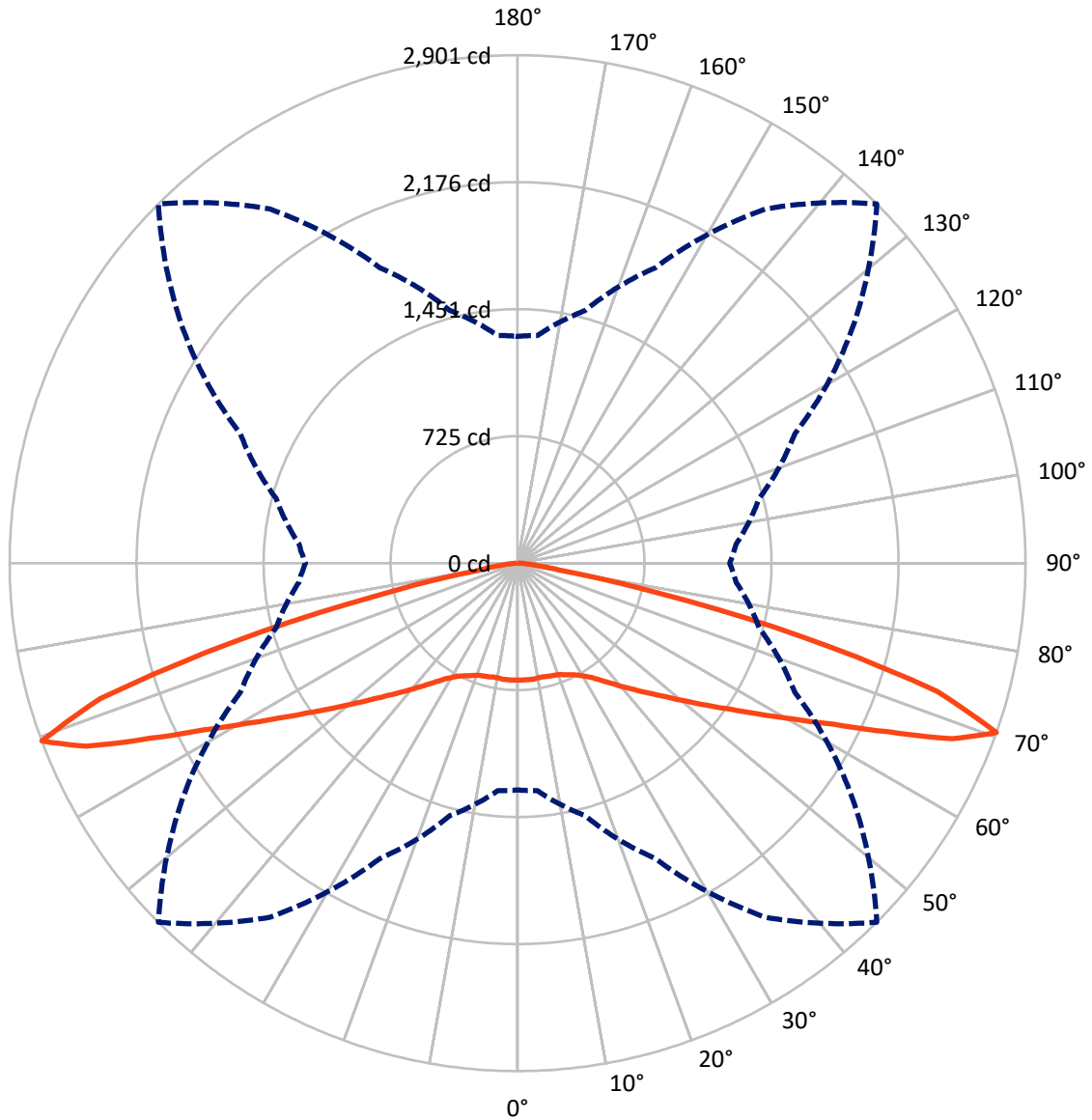
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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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 |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3039.1 | 0.0 | 3039.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3039.1 | 0.0 | 3039.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6078.1 | 0.0 | 6078.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.6 | 1.0 |
| 10°-20° | 188.2 | 3.1 |
| 20°-30° | 321.3 | 5.3 |
| 30°-40° | 512.8 | 8.4 |
| 40°-50° | 827.5 | 13.6 |
| 50°-60° | 1325.0 | 21.8 |
| 60°-70° | 1939.8 | 31.9 |
| 70°-80° | 853.1 | 14.0 |
| 80°-90° | 46.8 | 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° | 6078.1 | 100.0 |
| 0°-180° | 6078.1 | 100.0 |



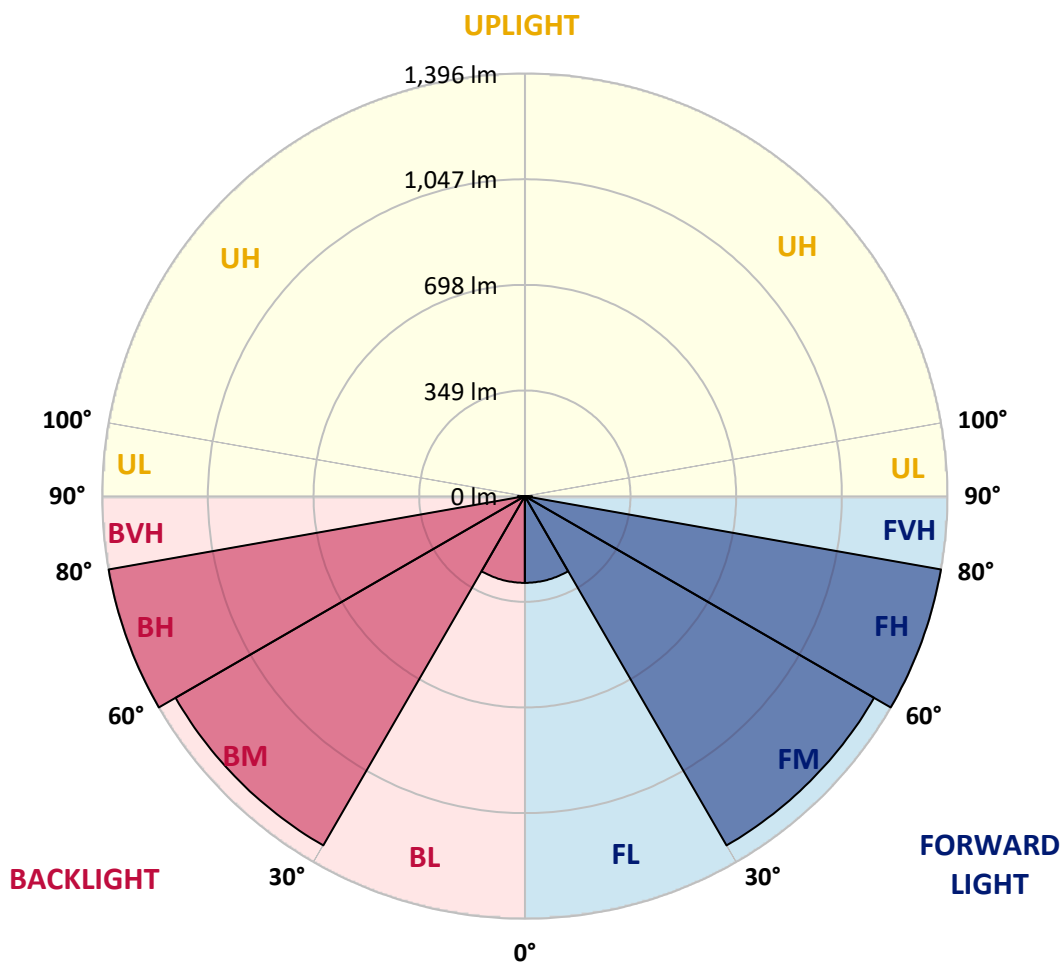
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 286.5 | 4.7 | | | |
| FM (30°-60°) | 1332.7 | 21.9 | | | |
| FH (60°-80°) | 1396.5 | 23.0 | | | G1/1800 |
| FVH (80°-90°) | 23.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 286.5 | 4.7 | B1/500 | | |
| BM (30°-60°) | 1332.7 | 21.9 | B2/2500 | | |
| BH (60°-80°) | 1396.5 | 23.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 23.4 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 |
| 2.5° | 667.5 | 667.1 | 668.0 | 668.4 | 667.5 | 668.0 | 665.4 | 665.4 | 666.7 | 665.4 | 667.1 |
| 5° | 670.5 | 669.7 | 670.5 | 670.5 | 668.4 | 668.4 | 665.4 | 664.5 | 665.4 | 663.2 | 664.9 |
| 7.5° | 671.0 | 669.3 | 670.5 | 670.1 | 668.4 | 668.4 | 664.1 | 662.4 | 662.8 | 660.6 | 661.9 |
| 10° | 666.7 | 665.8 | 667.5 | 666.7 | 665.4 | 665.4 | 661.9 | 659.3 | 659.3 | 657.2 | 658.5 |
| 12.5° | 664.1 | 663.2 | 665.4 | 665.8 | 664.9 | 665.4 | 661.1 | 657.6 | 656.3 | 653.7 | 654.6 |
| 15° | 664.1 | 662.4 | 665.8 | 666.7 | 667.5 | 670.5 | 664.1 | 658.1 | 655.5 | 652.0 | 652.9 |
| 17.5° | 663.7 | 662.8 | 666.7 | 669.7 | 670.5 | 674.0 | 666.7 | 660.2 | 657.2 | 652.0 | 652.9 |
| 20° | 663.7 | 663.2 | 668.0 | 673.6 | 676.1 | 679.2 | 671.4 | 665.4 | 660.2 | 654.6 | 654.6 |
| 22.5° | 665.8 | 665.4 | 671.8 | 680.0 | 687.3 | 692.5 | 683.5 | 673.6 | 666.7 | 659.3 | 658.5 |
| 25° | 674.9 | 674.0 | 681.7 | 691.6 | 701.6 | 706.7 | 697.7 | 687.8 | 677.9 | 669.7 | 668.8 |
| 27.5° | 693.4 | 692.9 | 700.7 | 712.7 | 719.6 | 723.5 | 715.8 | 707.2 | 697.2 | 687.8 | 687.3 |
| 30° | 718.3 | 718.3 | 728.3 | 740.7 | 744.6 | 747.6 | 739.9 | 733.9 | 723.5 | 713.2 | 712.3 |
| 32.5° | 748.5 | 750.2 | 761.8 | 775.6 | 778.2 | 779.9 | 771.7 | 767.9 | 756.7 | 745.5 | 743.8 |
| 35° | 788.1 | 788.5 | 802.8 | 816.5 | 820.0 | 821.7 | 812.2 | 808.8 | 798.5 | 786.4 | 783.8 |
| 37.5° | 838.5 | 837.2 | 850.6 | 866.1 | 869.5 | 871.7 | 863.9 | 861.3 | 848.4 | 836.3 | 832.5 |
| 40° | 894.9 | 895.8 | 910.9 | 925.5 | 927.7 | 928.5 | 924.6 | 920.8 | 908.7 | 894.9 | 890.2 |
| 42.5° | 960.4 | 960.4 | 978.0 | 995.3 | 995.3 | 991.0 | 989.2 | 988.4 | 976.7 | 961.2 | 956.1 |
| 45° | 1035.3 | 1036.2 | 1058.1 | 1071.1 | 1071.9 | 1060.3 | 1062.0 | 1067.2 | 1056.0 | 1036.2 | 1029.3 |
| 47.5° | 1117.6 | 1118.9 | 1144.7 | 1158.9 | 1156.3 | 1141.3 | 1150.7 | 1153.3 | 1140.4 | 1115.0 | 1105.9 |
| 50° | 1204.1 | 1208.0 | 1236.9 | 1261.8 | 1258.4 | 1236.4 | 1248.9 | 1249.8 | 1228.7 | 1199.4 | 1186.9 |
| 52.5° | 1297.6 | 1306.6 | 1345.0 | 1371.7 | 1375.1 | 1347.5 | 1358.3 | 1357.5 | 1330.3 | 1290.3 | 1282.1 |
| 55° | 1413.4 | 1418.6 | 1456.5 | 1494.4 | 1507.3 | 1473.3 | 1485.4 | 1479.3 | 1442.7 | 1397.1 | 1383.3 |
| 57.5° | 1529.3 | 1537.0 | 1585.7 | 1628.3 | 1654.2 | 1625.3 | 1627.9 | 1612.4 | 1566.3 | 1511.2 | 1504.3 |
| 60° | 1666.7 | 1670.1 | 1723.9 | 1779.5 | 1824.3 | 1807.1 | 1795.0 | 1762.7 | 1708.4 | 1653.3 | 1643.4 |
| 62.5° | 1779.1 | 1786.0 | 1866.1 | 1947.9 | 2023.7 | 2026.7 | 1990.1 | 1941.9 | 1855.3 | 1763.1 | 1743.3 |
| 65° | 1810.1 | 1821.3 | 1933.7 | 2095.2 | 2252.8 | 2323.0 | 2222.7 | 2075.4 | 1882.0 | 1742.9 | 1713.2 |
| 67.5° | 1665.8 | 1687.3 | 1848.0 | 2116.3 | 2466.0 | 2676.6 | 2407.8 | 2012.1 | 1742.0 | 1579.7 | 1551.3 |
| 70° | 1295.4 | 1304.9 | 1493.5 | 1861.8 | 2469.4 | 2901.4 | 2333.3 | 1747.2 | 1428.1 | 1253.7 | 1211.9 |
| 72.5° | 688.2 | 692.9 | 863.1 | 1253.7 | 2009.5 | 2506.5 | 1928.1 | 1222.7 | 840.7 | 682.2 | 634.4 |
| 75° | 222.2 | 228.3 | 297.2 | 513.4 | 1108.5 | 1684.3 | 1137.0 | 508.6 | 289.8 | 233.9 | 221.4 |
| 77.5° | 113.3 | 112.8 | 125.3 | 165.4 | 373.0 | 825.6 | 394.5 | 178.3 | 125.3 | 112.4 | 109.0 |
| 80° | 70.6 | 69.3 | 78.8 | 90.4 | 130.5 | 241.2 | 141.7 | 99.9 | 79.2 | 68.0 | 67.6 |
| 82.5° | 40.1 | 40.1 | 53.0 | 58.1 | 73.6 | 99.5 | 82.7 | 68.5 | 54.3 | 40.5 | 39.2 |
| 85° | 22.4 | 19.8 | 33.2 | 36.6 | 42.2 | 49.1 | 50.4 | 44.4 | 36.6 | 22.4 | 23.3 |
| 87.5° | 8.2 | 9.0 | 15.5 | 14.6 | 16.8 | 11.6 | 20.7 | 23.3 | 20.7 | 10.8 | 9.0 |
| 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)