

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: P672618

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

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672618  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-840-U-5MQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ 5MQ distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

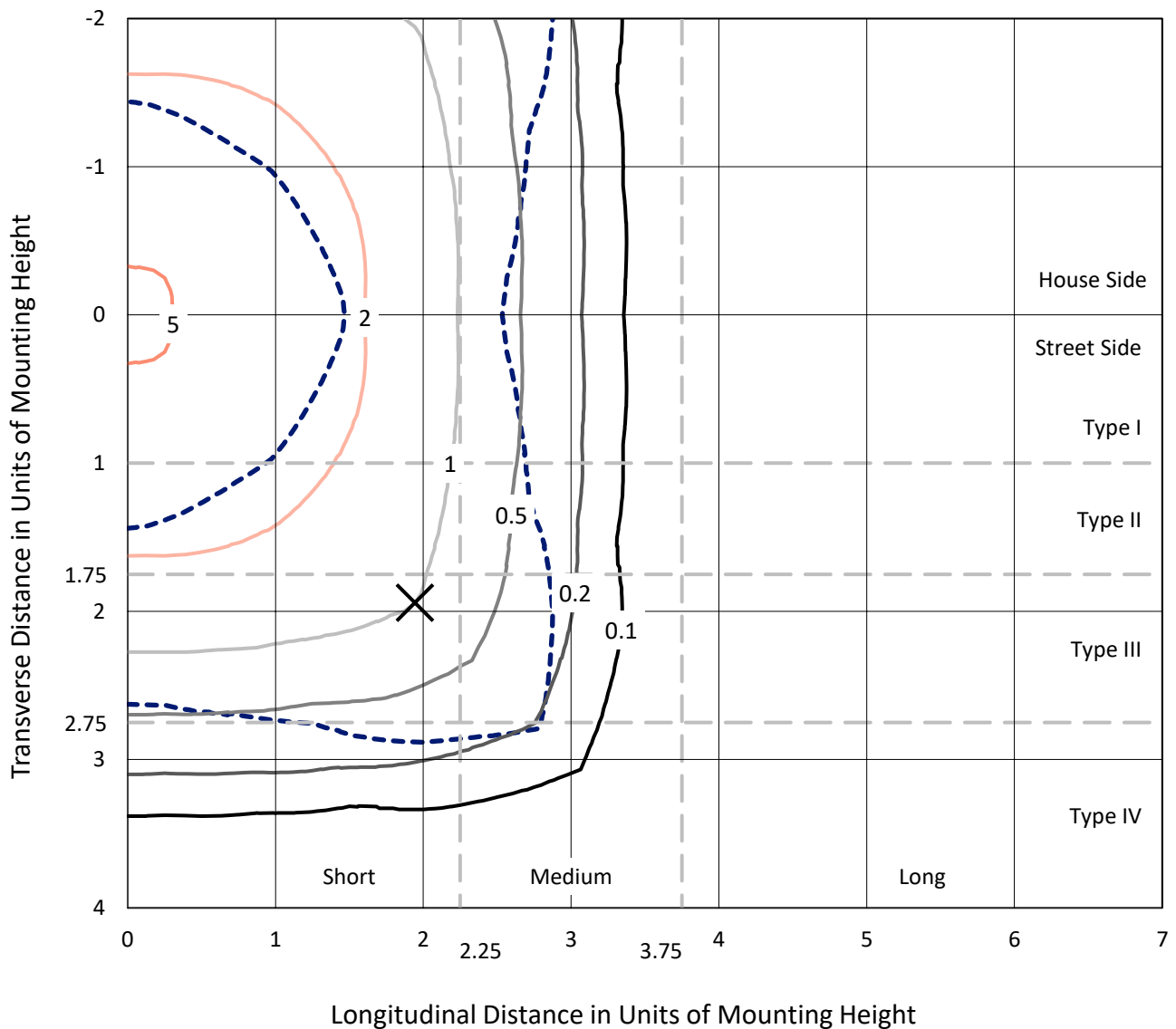
Lumens per Lamp: N/A  
Luminaire Lumens: 12033.5 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

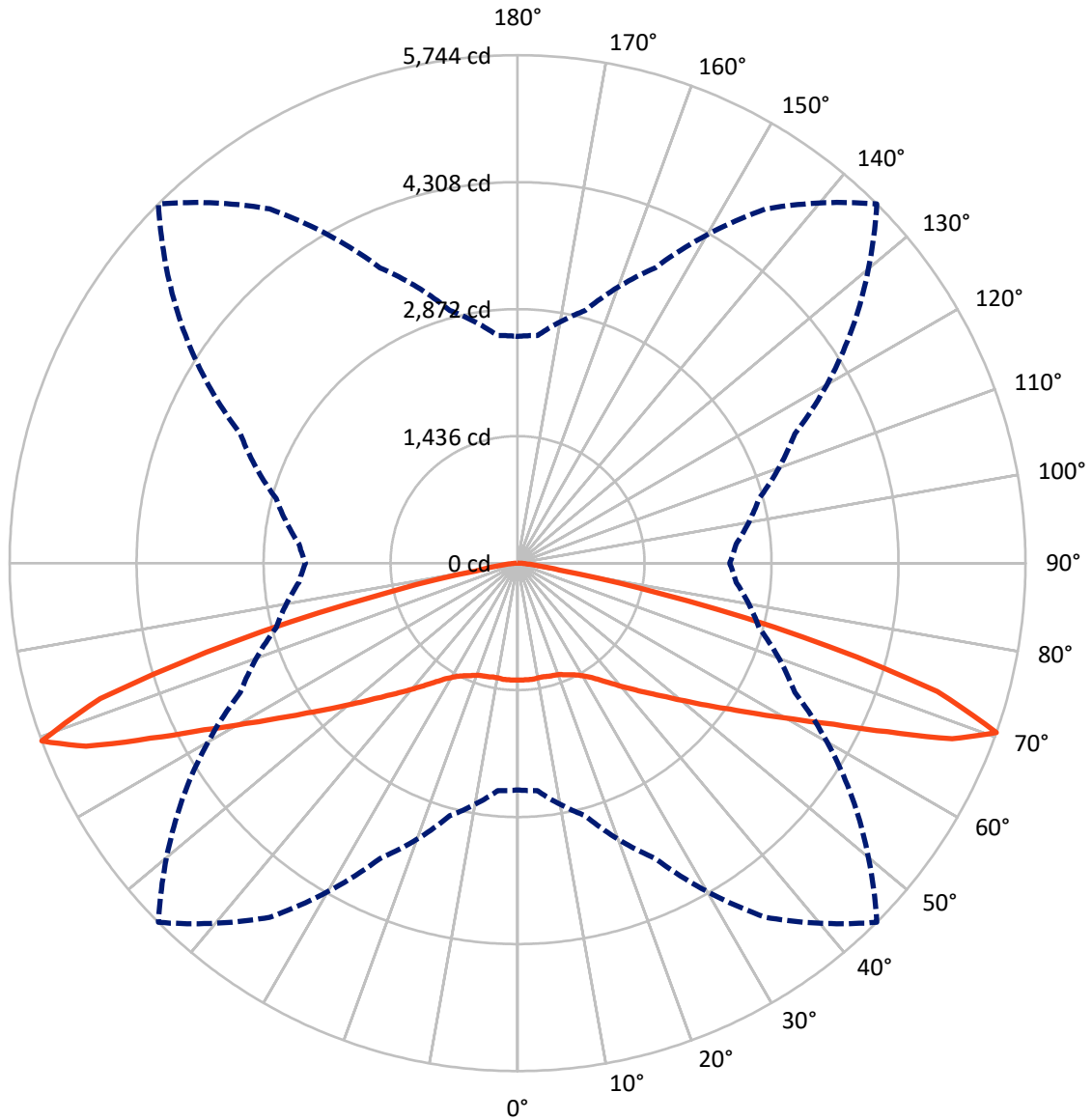
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 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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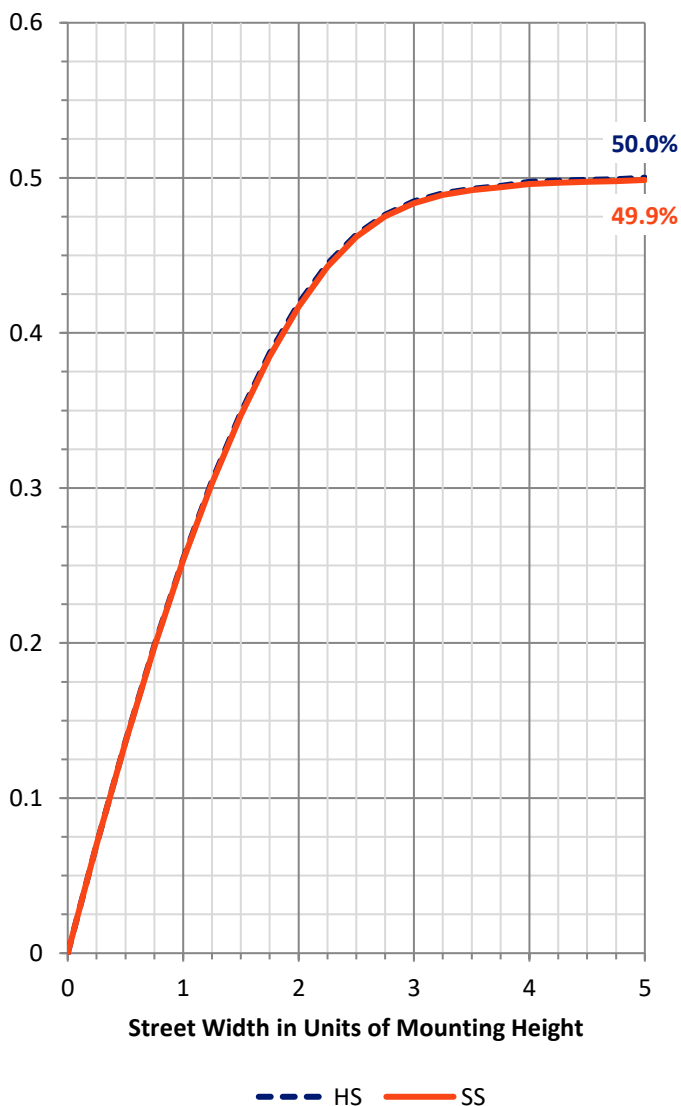
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6016.8	0.0	6016.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6016.8	0.0	6016.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12033.5	0.0	12033.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.9	1.0
10°-20°	372.5	3.1
20°-30°	636.2	5.3
30°-40°	1015.2	8.4
40°-50°	1638.3	13.6
50°-60°	2623.4	21.8
60°-70°	3840.4	31.9
70°-80°	1689.0	14.0
80°-90°	92.6	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°	12033.5	100.0
0°-180°	12033.5	100.0



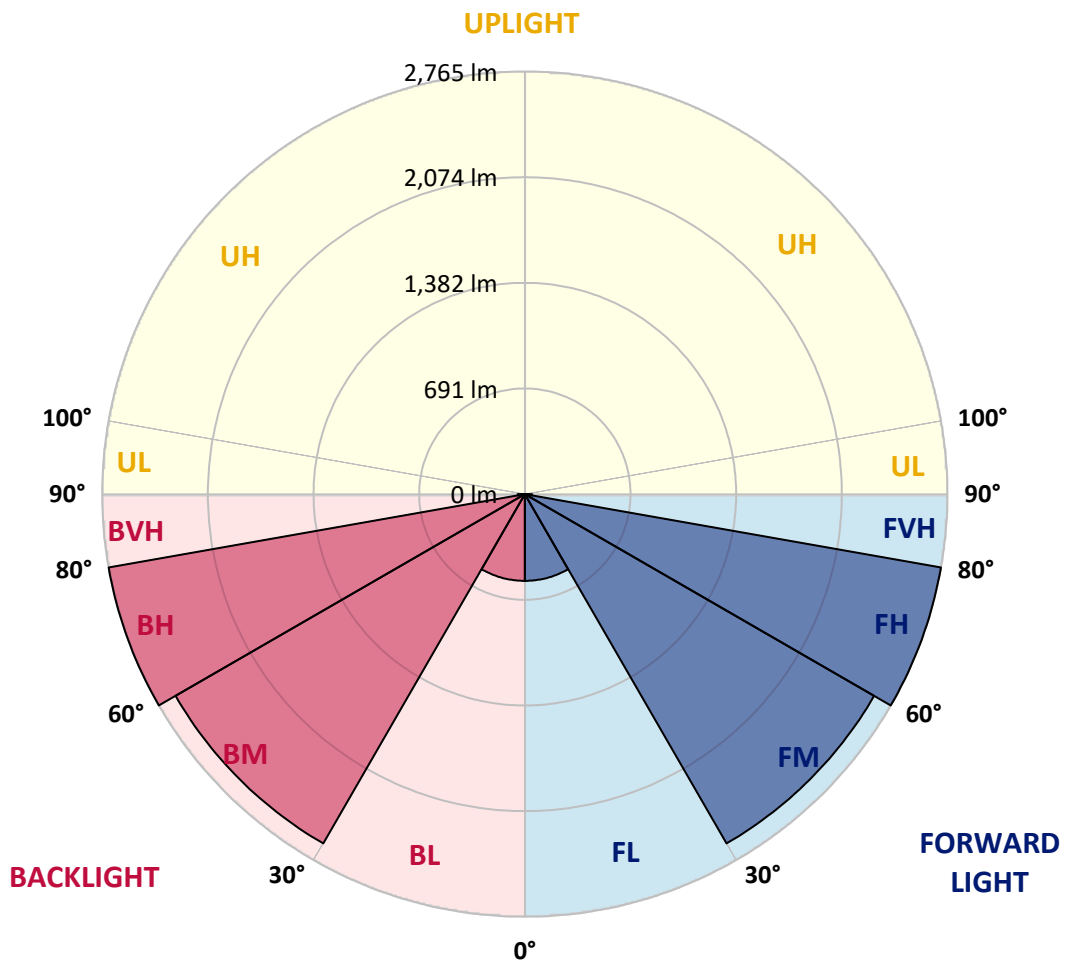
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.3	4.7			
FM (30°-60°)	2638.4	21.9			
FH (60°-80°)	2764.7	23.0			G2/5000
FVH (80°-90°)	46.3	0.4			G1/100
BL (0°-30°)	567.3	4.7	B2/1000		
BM (30°-60°)	2638.4	21.9	B3/5000		
BH (60°-80°)	2764.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	46.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3	1323.3
2.5°	1321.6	1320.7	1322.4	1323.3	1321.6	1322.4	1317.3	1317.3	1319.9	1317.3	1320.7
5°	1327.6	1325.9	1327.6	1327.6	1323.3	1323.3	1317.3	1315.6	1317.3	1313.1	1316.5
7.5°	1328.4	1325.0	1327.6	1326.7	1323.3	1323.3	1314.8	1311.4	1312.2	1307.9	1310.5
10°	1319.9	1318.2	1321.6	1319.9	1317.3	1317.3	1310.5	1305.4	1305.4	1301.1	1303.7
12.5°	1314.8	1313.1	1317.3	1318.2	1316.5	1317.3	1308.8	1302.0	1299.4	1294.3	1296.0
15°	1314.8	1311.4	1318.2	1319.9	1321.6	1327.6	1314.8	1302.8	1297.7	1290.9	1292.6
17.5°	1313.9	1312.2	1319.9	1325.9	1327.6	1334.4	1319.9	1307.1	1301.1	1290.9	1292.6
20°	1313.9	1313.1	1322.4	1333.5	1338.6	1344.6	1329.3	1317.3	1307.1	1296.0	1296.0
22.5°	1318.2	1317.3	1330.1	1346.3	1360.8	1371.0	1353.1	1333.5	1319.9	1305.4	1303.7
25°	1336.1	1334.4	1349.7	1369.3	1388.9	1399.2	1381.3	1361.7	1342.1	1325.9	1324.1
27.5°	1372.7	1371.9	1387.2	1411.1	1424.8	1432.4	1417.1	1400.0	1380.4	1361.7	1360.8
30°	1422.2	1422.2	1441.8	1466.5	1474.2	1480.2	1464.8	1452.9	1432.4	1412.0	1410.3
32.5°	1481.9	1485.3	1508.3	1535.6	1540.7	1544.1	1527.9	1520.3	1498.1	1475.9	1472.5
35°	1560.3	1561.2	1589.3	1616.6	1623.4	1626.8	1608.1	1601.3	1580.8	1556.9	1551.8
37.5°	1660.1	1657.5	1684.0	1714.7	1721.5	1725.7	1710.4	1705.3	1679.7	1655.8	1648.2
40°	1771.8	1773.5	1803.3	1832.3	1836.6	1838.3	1830.6	1822.9	1799.1	1771.8	1762.4
42.5°	1901.4	1901.4	1936.3	1970.4	1970.4	1961.9	1958.5	1956.8	1933.8	1903.1	1892.9
45°	2049.7	2051.4	2094.9	2120.5	2122.2	2099.2	2102.6	2112.8	2090.7	2051.4	2037.8
47.5°	2212.6	2215.2	2266.3	2294.5	2289.3	2259.5	2278.3	2283.4	2257.8	2207.5	2189.6
50°	2384.0	2391.7	2448.8	2498.2	2491.4	2447.9	2472.7	2474.4	2432.6	2374.6	2349.9
52.5°	2569.0	2586.9	2662.8	2715.7	2722.5	2667.9	2689.2	2687.5	2633.8	2554.5	2538.3
55°	2798.4	2808.6	2883.6	2958.7	2984.2	2916.9	2940.8	2928.8	2856.3	2766.0	2738.7
57.5°	3027.7	3043.1	3139.4	3223.8	3275.0	3217.9	3223.0	3192.3	3101.0	2991.9	2978.3
60°	3299.7	3306.5	3413.1	3523.1	3611.8	3577.7	3553.8	3489.8	3382.4	3273.3	3253.7
62.5°	3522.2	3535.9	3694.5	3856.5	4006.5	4012.5	3940.0	3844.5	3673.2	3490.7	3451.5
65°	3583.6	3605.8	3828.3	4148.1	4460.2	4599.1	4400.5	4108.9	3726.0	3450.6	3391.8
67.5°	3298.0	3340.6	3658.7	4189.9	4882.2	5299.1	4767.1	3983.5	3448.9	3127.5	3071.2
70°	2564.7	2583.5	2957.0	3686.0	4889.0	5744.2	4619.6	3459.2	2827.3	2482.0	2399.3
72.5°	1362.5	1371.9	1708.7	2482.0	3978.4	4962.4	3817.3	2420.6	1664.4	1350.6	1255.9
75°	440.0	451.9	588.3	1016.3	2194.7	3334.7	2251.0	1007.0	573.8	463.0	438.3
77.5°	224.2	223.4	248.1	327.4	738.4	1634.5	781.0	353.0	248.1	222.5	215.7
80°	139.8	137.3	156.0	179.1	258.3	477.5	280.5	197.8	156.9	134.7	133.9
82.5°	79.3	79.3	104.9	115.1	145.8	197.0	163.7	135.6	107.4	80.1	77.6
85°	44.3	39.2	65.7	72.5	83.6	97.2	99.8	87.8	72.5	44.3	46.0
87.5°	16.2	17.9	30.7	29.0	33.3	23.0	40.9	46.0	40.9	21.3	17.9
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)