

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: P672592

Luminaire Tested: **CCP-SA-2A-830-U-5MQ**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672592  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-830-U-5MQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ 5MQ  
distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

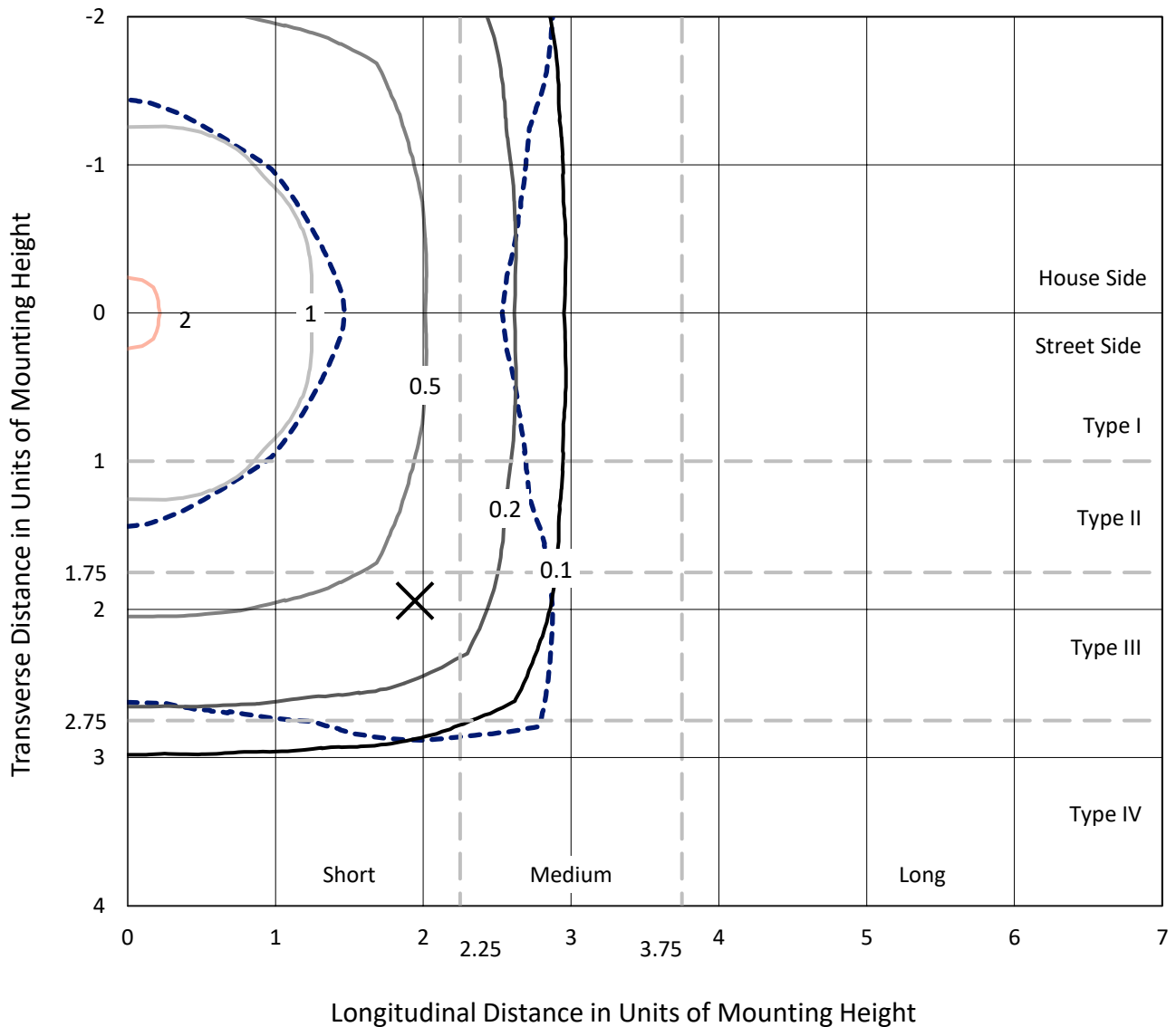
Lumens per Lamp: N/A  
Luminaire Lumens: 4488 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 36.2  
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

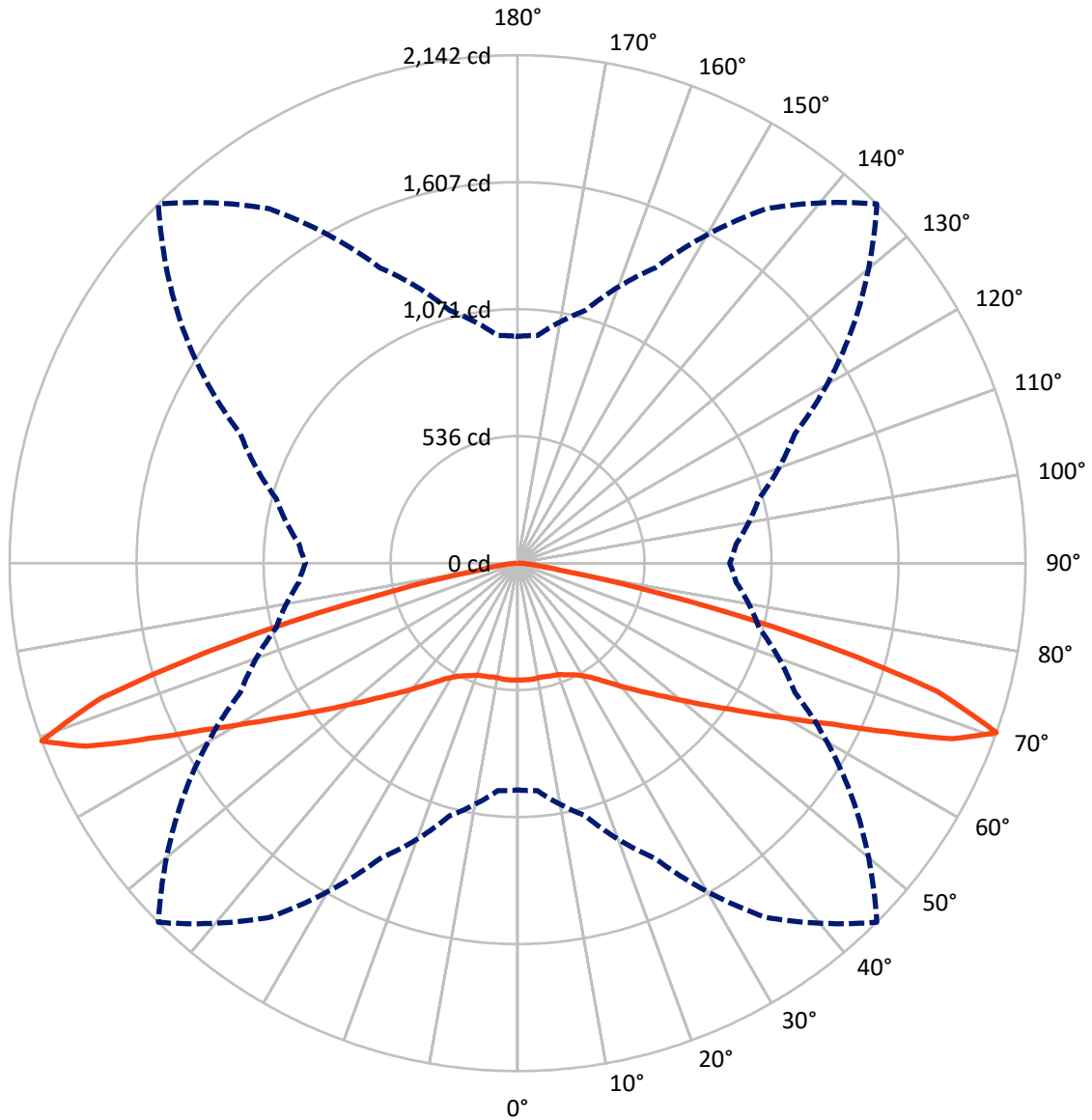
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 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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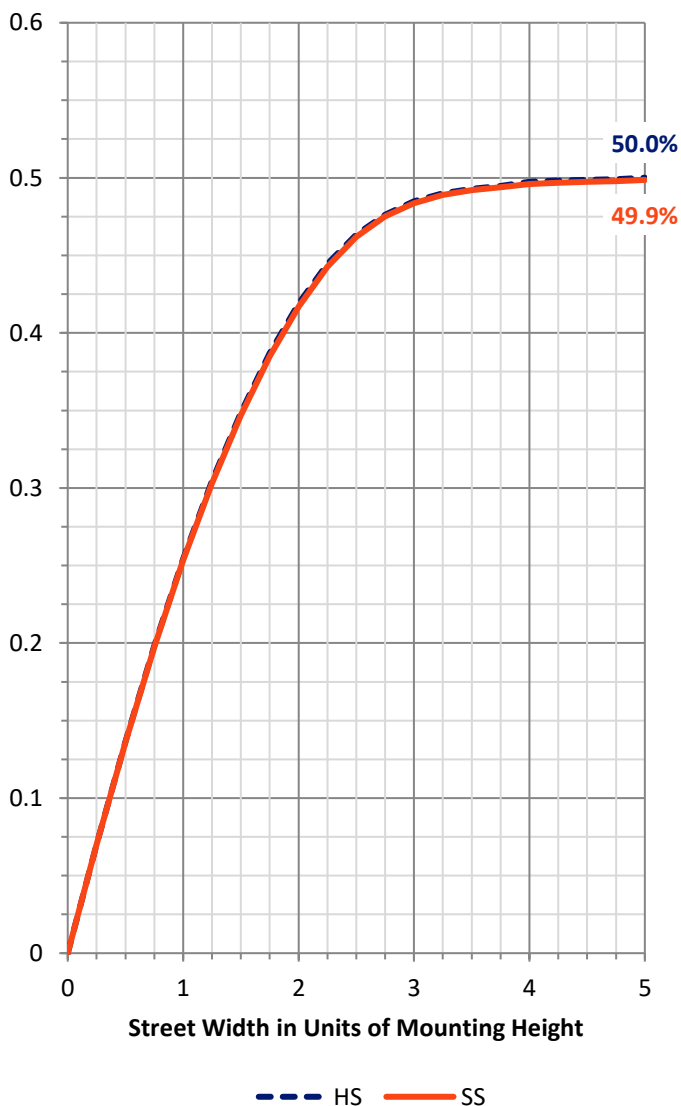
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2244.0	0.0	2244.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2244.0	0.0	2244.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4488.0	0.0	4488.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.9	1.0
10°-20°	138.9	3.1
20°-30°	237.3	5.3
30°-40°	378.6	8.4
40°-50°	611.0	13.6
50°-60°	978.4	21.8
60°-70°	1432.3	31.9
70°-80°	629.9	14.0
80°-90°	34.5	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°	4488.0	100.0
0°-180°	4488.0	100.0



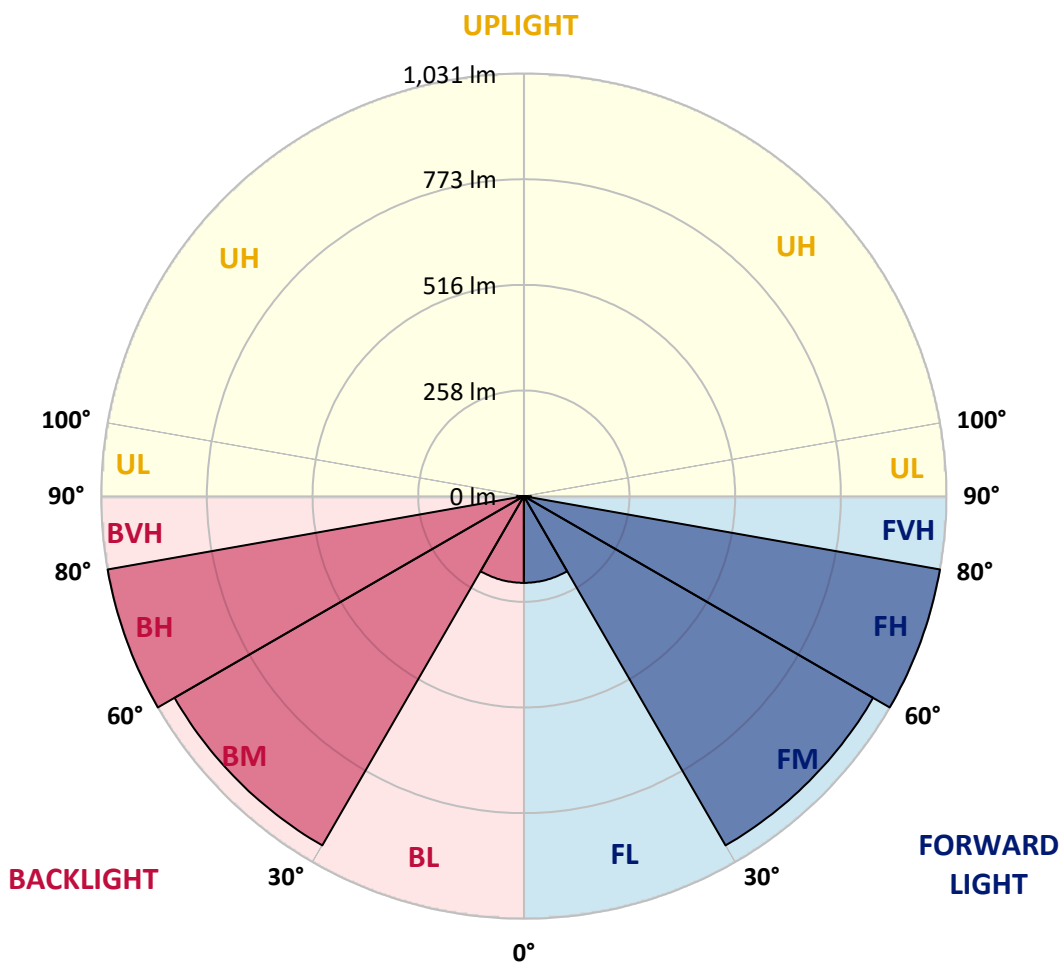
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.6	4.7			
FM	(30°-60°)	984.0	21.9			
FH	(60°-80°)	1031.1	23.0			G1/1800
FVH	(80°-90°)	17.3	0.4			G1/100
BL	(0°-30°)	211.6	4.7	B1/500		
BM	(30°-60°)	984.0	21.9	B1/1000		
BH	(60°-80°)	1031.1	23.0	B3/2500		G1/1800
BVH	(80°-90°)	17.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5
2.5°	492.9	492.6	493.2	493.5	492.9	493.2	491.3	491.3	492.3	491.3	492.6
5°	495.1	494.5	495.1	495.1	493.5	493.5	491.3	490.7	491.3	489.7	491.0
7.5°	495.4	494.2	495.1	494.8	493.5	493.5	490.3	489.1	489.4	487.8	488.8
10°	492.3	491.6	492.9	492.3	491.3	491.3	488.8	486.8	486.8	485.3	486.2
12.5°	490.3	489.7	491.3	491.6	491.0	491.3	488.1	485.6	484.6	482.7	483.4
15°	490.3	489.1	491.6	492.3	492.9	495.1	490.3	485.9	484.0	481.4	482.1
17.5°	490.0	489.4	492.3	494.5	495.1	497.7	492.3	487.5	485.3	481.4	482.1
20°	490.0	489.7	493.2	497.3	499.3	501.5	495.8	491.3	487.5	483.4	483.4
22.5°	491.6	491.3	496.1	502.1	507.5	511.3	504.7	497.3	492.3	486.8	486.2
25°	498.3	497.7	503.4	510.7	518.0	521.8	515.2	507.8	500.5	494.5	493.8
27.5°	512.0	511.7	517.4	526.3	531.4	534.2	528.5	522.1	514.8	507.8	507.5
30°	530.4	530.4	537.7	546.9	549.8	552.0	546.3	541.9	534.2	526.6	526.0
32.5°	552.7	553.9	562.5	572.7	574.6	575.9	569.8	567.0	558.7	550.4	549.2
35°	581.9	582.2	592.7	602.9	605.5	606.7	599.7	597.2	589.6	580.7	578.7
37.5°	619.1	618.2	628.0	639.5	642.0	643.6	637.9	636.0	626.4	617.5	614.7
40°	660.8	661.4	672.6	683.4	685.0	685.6	682.7	679.9	671.0	660.8	657.3
42.5°	709.1	709.1	722.2	734.9	734.9	731.7	730.4	729.8	721.2	709.8	705.9
45°	764.5	765.1	781.3	790.9	791.5	782.9	784.2	788.0	779.7	765.1	760.0
47.5°	825.2	826.1	845.2	855.7	853.8	842.7	849.7	851.6	842.0	823.3	816.6
50°	889.1	892.0	913.3	931.7	929.2	913.0	922.2	922.8	907.2	885.6	876.4
52.5°	958.1	964.8	993.1	1012.8	1015.4	995.0	1003.0	1002.3	982.3	952.7	946.7
55°	1043.7	1047.5	1075.5	1103.4	1113.0	1087.9	1096.8	1092.3	1065.3	1031.6	1021.4
57.5°	1129.2	1134.9	1170.9	1202.3	1221.4	1200.1	1202.0	1190.6	1156.5	1115.8	1110.8
60°	1230.6	1233.2	1272.9	1314.0	1347.0	1334.3	1325.4	1301.6	1261.5	1220.8	1213.5
62.5°	1313.6	1318.7	1377.9	1438.3	1494.3	1496.5	1469.5	1433.8	1369.9	1301.9	1287.2
65°	1336.5	1344.8	1427.8	1547.0	1663.4	1715.3	1641.2	1532.4	1389.6	1286.9	1265.0
67.5°	1230.0	1245.9	1364.5	1562.6	1820.8	1976.3	1777.9	1485.7	1286.3	1166.4	1145.4
70°	956.5	963.5	1102.8	1374.7	1823.4	2142.3	1722.9	1290.1	1054.5	925.7	894.8
72.5°	508.2	511.7	637.3	925.7	1483.8	1850.7	1423.7	902.8	620.7	503.7	468.4
75°	164.1	168.5	219.4	379.0	818.5	1243.7	839.5	375.6	214.0	172.7	163.4
77.5°	83.6	83.3	92.5	122.1	275.4	609.6	291.3	131.6	92.5	83.0	80.5
80°	52.2	51.2	58.2	66.8	96.4	178.1	104.6	73.8	58.5	50.2	49.9
82.5°	29.6	29.6	39.1	42.9	54.4	73.5	61.1	50.6	40.1	29.9	28.9
85°	16.5	14.6	24.5	27.0	31.2	36.3	37.2	32.8	27.0	16.5	17.2
87.5°	6.0	6.7	11.4	10.8	12.4	8.6	15.3	17.2	15.3	7.9	6.7
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)