

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: P672438

Luminaire Tested: **CCP-SA-2B-827-U-5WQ**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672438  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-827-U-5WQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ 5WQ distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

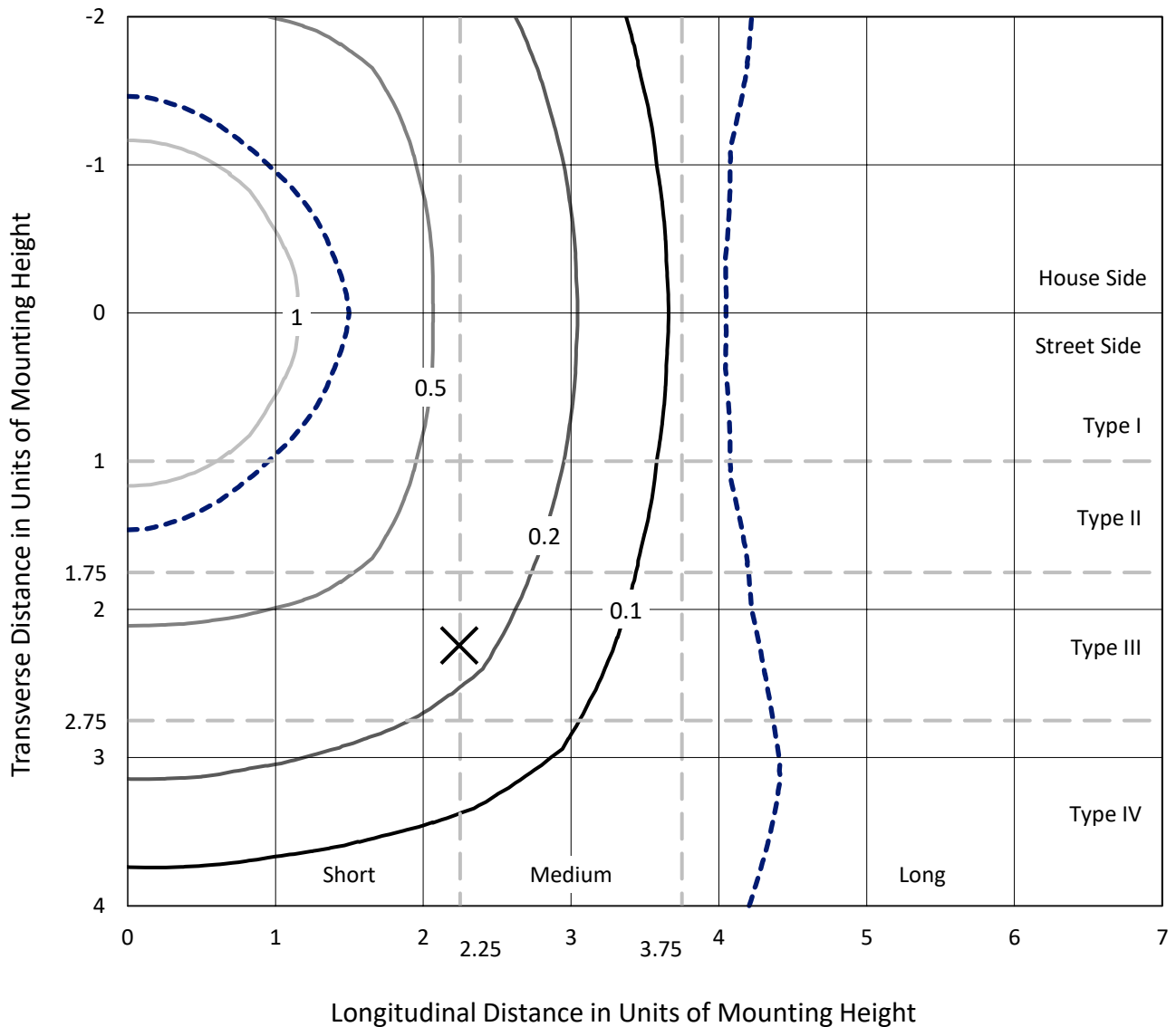
Lumens per Lamp: N/A  
Luminaire Lumens: 5321 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (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

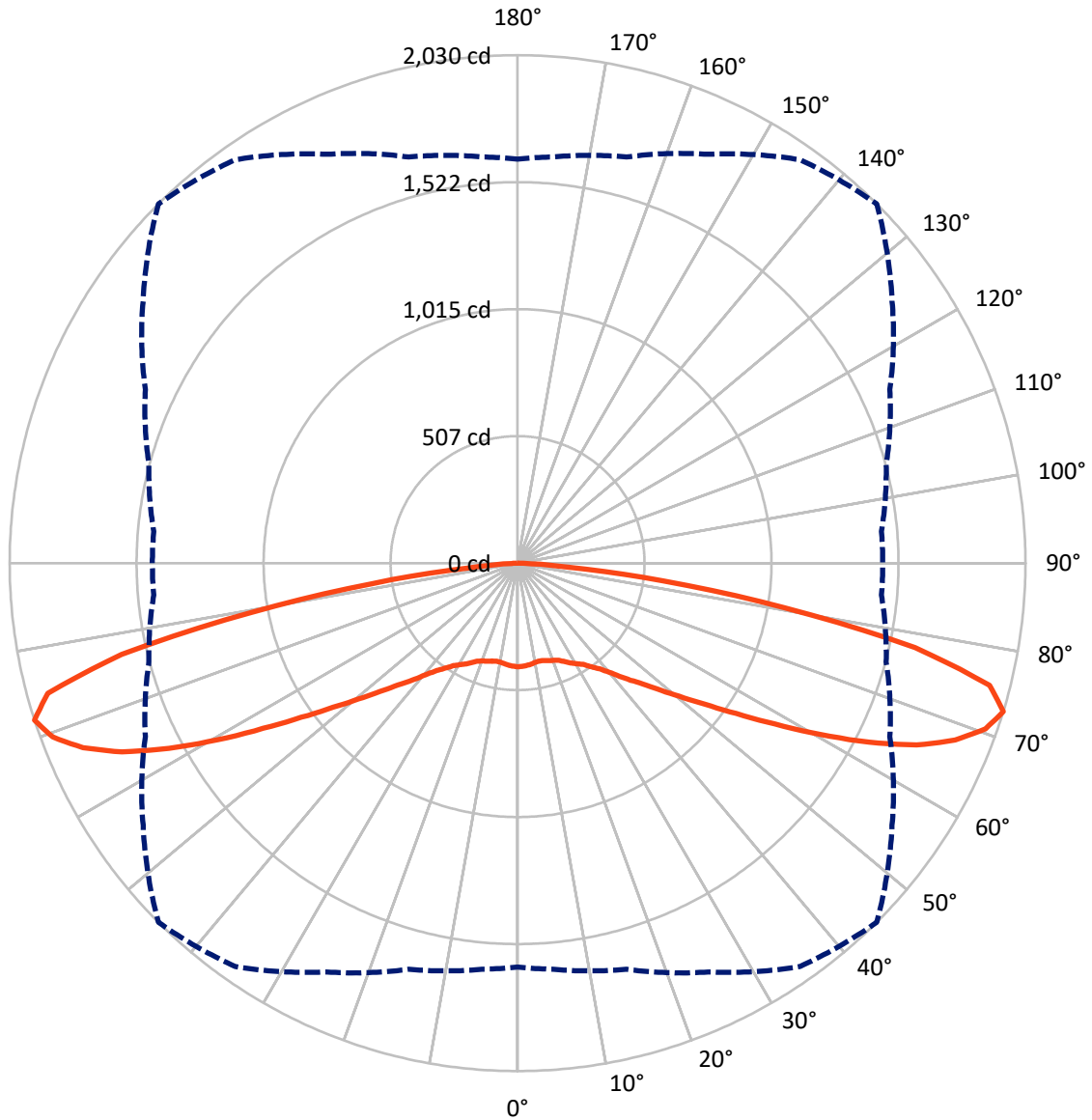
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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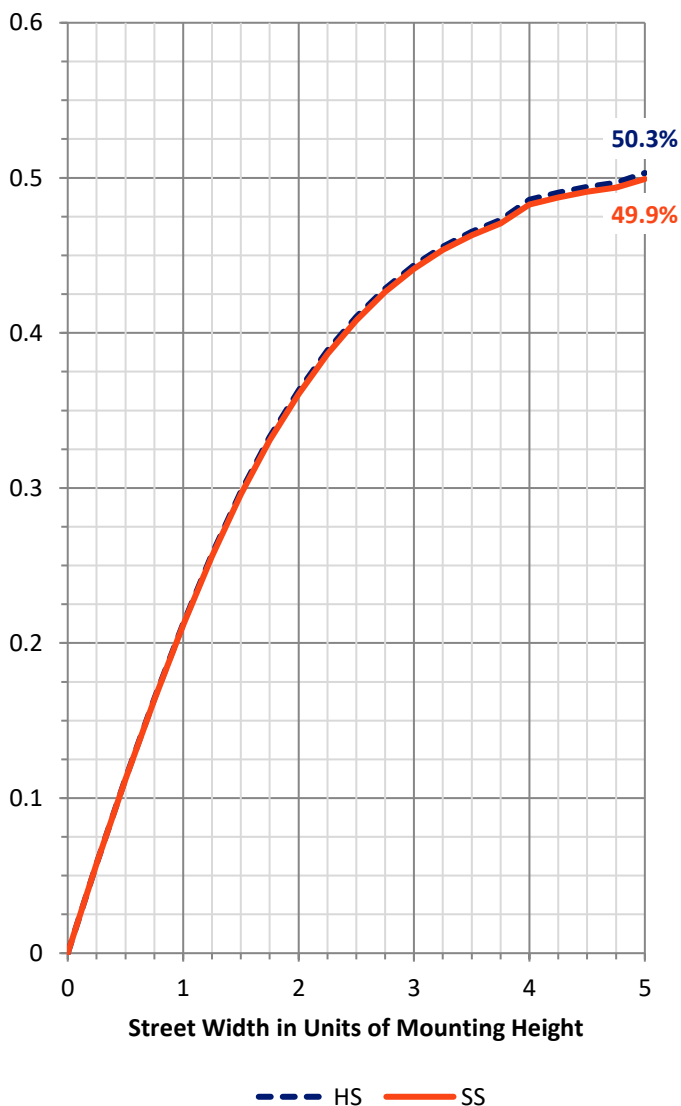
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2660.5	0.0	2660.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2660.5	0.0	2660.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5321.0	0.0	5321.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.9	0.7
10°-20°	115.6	2.2
20°-30°	203.0	3.8
30°-40°	323.9	6.1
40°-50°	541.6	10.2
50°-60°	926.8	17.4
60°-70°	1530.0	28.8
70°-80°	1466.4	27.6
80°-90°	174.9	3.3
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°	5321.0	100.0
0°-180°	5321.0	100.0



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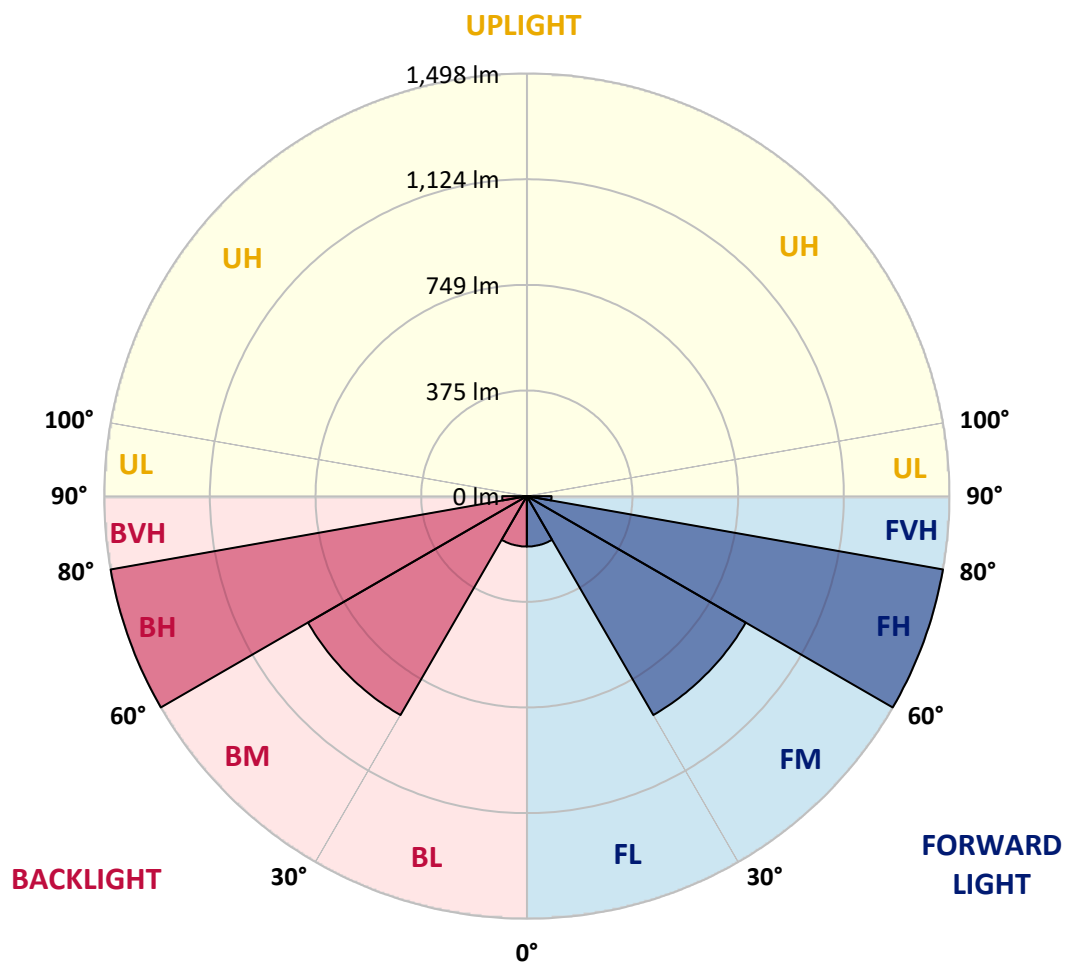
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.7	3.4			
FM (30°-60°)	896.1	16.8			
FH (60°-80°)	1498.2	28.2			G1/1800
FVH (80°-90°)	87.4	1.6			G1/100
BL (0°-30°)	178.7	3.4	B1/500		
BM (30°-60°)	896.1	16.8	B1/1000		
BH (60°-80°)	1498.2	28.2	B3/2500		G1/1800
BVH (80°-90°)	87.4	1.6			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°	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4
2.5°	411.8	411.8	412.9	413.2	412.9	412.5	412.1	411.8	412.9	412.5	412.9
5°	410.6	410.6	411.0	411.4	410.6	410.3	409.5	409.2	409.9	409.9	410.6
7.5°	407.7	407.3	407.7	408.0	406.9	406.6	405.4	405.4	405.4	405.1	405.8
10°	405.1	404.3	404.3	403.6	401.7	402.1	400.6	401.7	403.6	404.0	404.3
12.5°	406.2	405.4	404.7	402.8	400.2	400.6	400.2	401.4	404.0	405.4	406.6
15°	411.4	410.6	408.8	405.4	404.0	404.0	403.2	403.6	407.3	409.5	410.6
17.5°	417.0	415.5	412.1	409.9	408.4	409.5	406.9	406.6	409.5	412.9	414.0
20°	421.4	420.3	416.2	413.6	413.6	414.7	412.1	410.6	414.0	418.1	419.2
22.5°	429.2	428.5	424.4	421.8	421.8	422.1	420.7	419.5	423.3	427.3	428.5
25°	440.3	440.3	436.3	435.1	434.8	435.5	433.7	432.5	435.9	438.9	440.0
27.5°	453.3	452.2	448.9	448.1	449.6	452.2	448.9	445.9	448.5	451.1	451.5
30°	467.1	467.1	464.1	464.1	465.2	466.3	463.4	460.4	463.0	466.0	466.3
32.5°	486.4	485.3	484.2	484.5	484.2	482.7	481.2	480.8	483.0	484.9	485.6
35°	510.1	509.8	508.3	509.0	509.0	509.0	504.6	503.1	506.8	508.3	507.5
37.5°	546.9	546.5	542.8	540.6	538.0	536.9	531.3	530.9	539.8	544.3	543.6
40°	591.8	590.3	587.0	583.3	579.9	577.7	572.1	576.2	585.5	588.9	588.9
42.5°	640.8	639.0	635.3	633.4	631.2	629.0	621.5	623.4	634.5	637.9	634.2
45°	701.0	698.4	694.3	690.2	686.9	682.4	678.7	680.6	692.4	696.5	693.6
47.5°	764.8	764.1	760.8	757.4	754.4	751.5	746.6	750.0	760.4	759.6	753.7
50°	832.4	833.9	834.3	837.6	835.4	835.8	826.8	825.0	833.2	828.3	820.9
52.5°	905.2	907.4	915.2	921.9	934.1	935.6	924.5	912.6	911.1	898.5	890.7
55°	989.5	989.1	1006.2	1024.7	1051.8	1060.4	1035.5	1013.2	1001.0	976.5	968.3
57.5°	1084.9	1083.8	1109.8	1142.4	1191.4	1212.6	1166.9	1124.6	1094.9	1065.6	1057.0
60°	1188.5	1191.1	1222.6	1275.7	1360.4	1389.7	1320.7	1250.5	1205.2	1166.9	1163.6
62.5°	1309.5	1309.9	1347.0	1419.0	1528.9	1576.1	1481.0	1386.0	1328.4	1286.5	1277.6
65°	1452.5	1455.1	1494.8	1567.6	1693.8	1752.1	1642.6	1526.7	1458.8	1402.0	1400.9
67.5°	1599.1	1597.6	1634.0	1711.2	1833.0	1886.9	1772.1	1642.9	1554.6	1483.6	1474.4
70°	1693.0	1701.2	1740.6	1814.5	1931.0	1983.4	1843.8	1687.9	1595.4	1530.4	1526.0
72.5°	1614.0	1629.2	1680.1	1802.6	1967.8	2029.8	1826.7	1641.4	1524.9	1459.5	1459.5
75°	1310.3	1335.5	1406.4	1595.0	1840.8	1948.1	1691.2	1436.5	1266.8	1197.0	1197.0
77.5°	798.3	822.4	918.2	1148.4	1486.6	1624.0	1378.6	1081.9	885.5	800.1	789.0
80°	265.5	281.1	375.0	583.7	912.6	1080.8	923.8	614.5	396.5	302.2	300.7
82.5°	70.5	76.9	106.9	169.3	396.2	585.5	422.5	202.7	116.2	90.2	83.2
85°	24.5	26.4	45.3	56.4	100.6	193.8	117.7	73.5	56.4	34.2	31.9
87.5°	7.1	7.8	18.2	19.7	29.0	22.6	31.9	29.3	26.7	11.1	10.0
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)