

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: P672617

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

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672617  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-840-U-5MQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ 5MQ  
distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

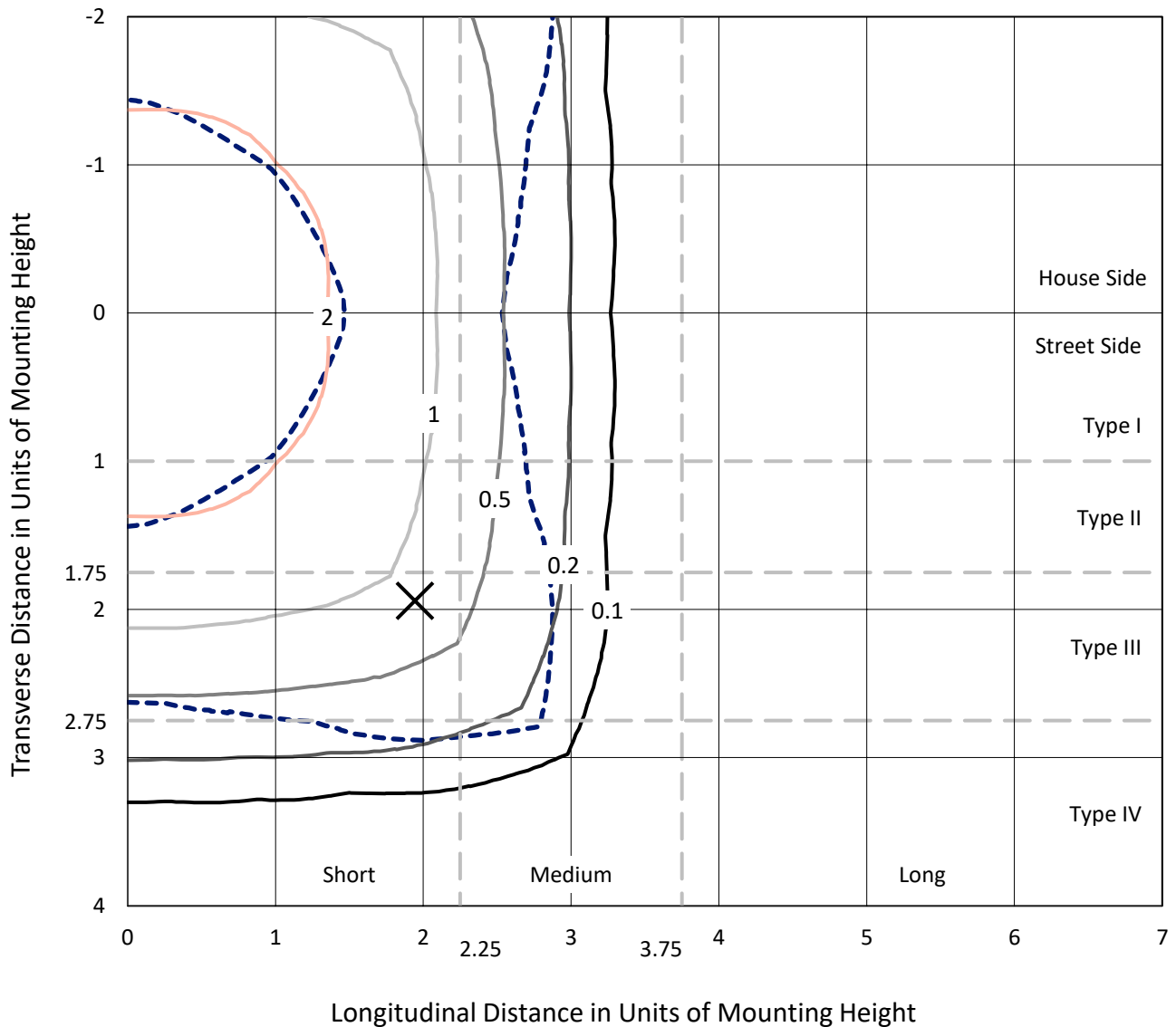
Lumens per Lamp: N/A  
Luminaire Lumens: 9815.5 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 80.8  
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

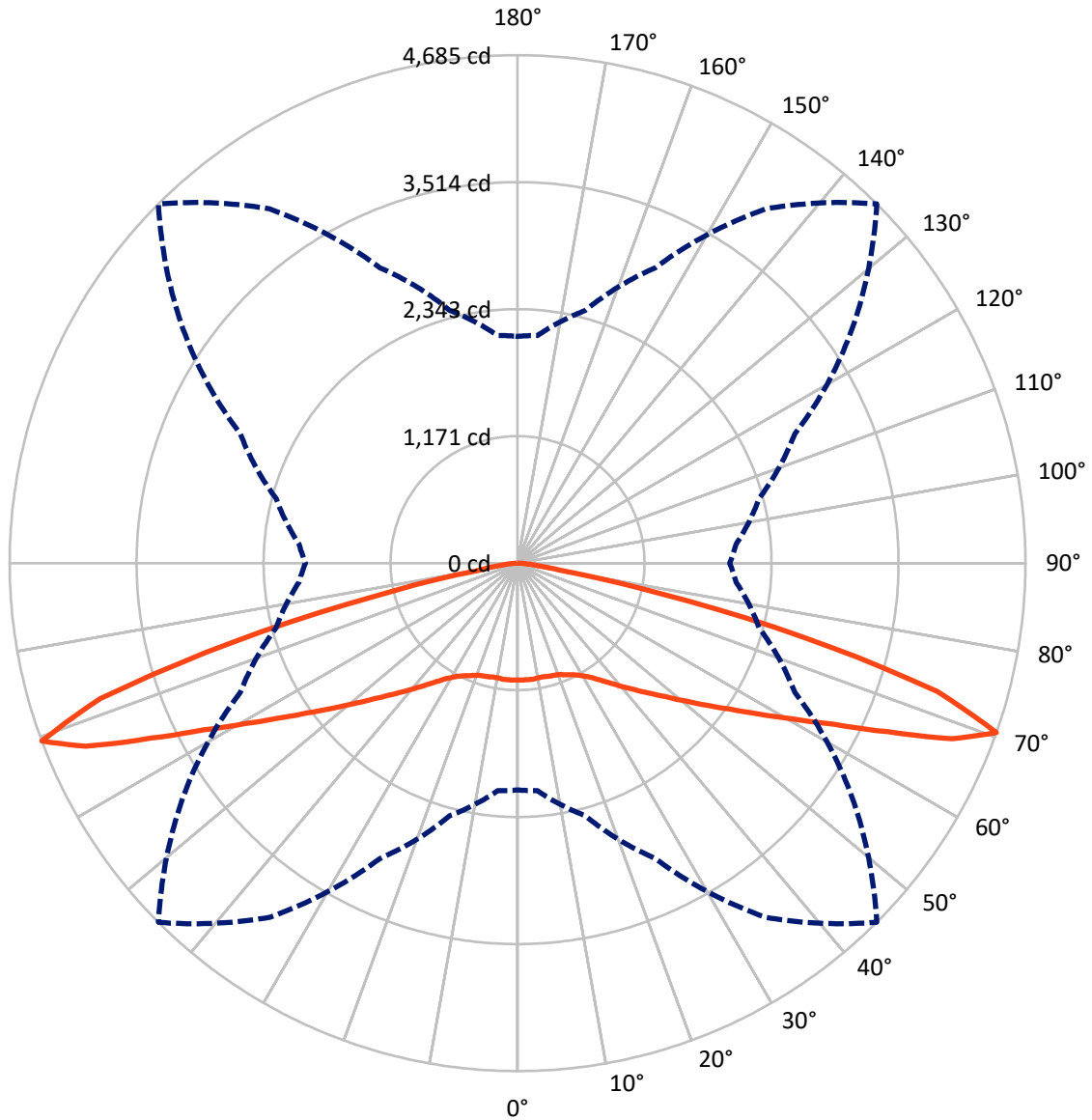
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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	4907.7	0.0	4907.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4907.7	0.0	4907.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9815.5	0.0	9815.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	1.0
10°-20°	303.9	3.1
20°-30°	518.9	5.3
30°-40°	828.1	8.4
40°-50°	1336.3	13.6
50°-60°	2139.8	21.8
60°-70°	3132.6	31.9
70°-80°	1377.7	14.0
80°-90°	75.5	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°	9815.5	100.0
0°-180°	9815.5	100.0



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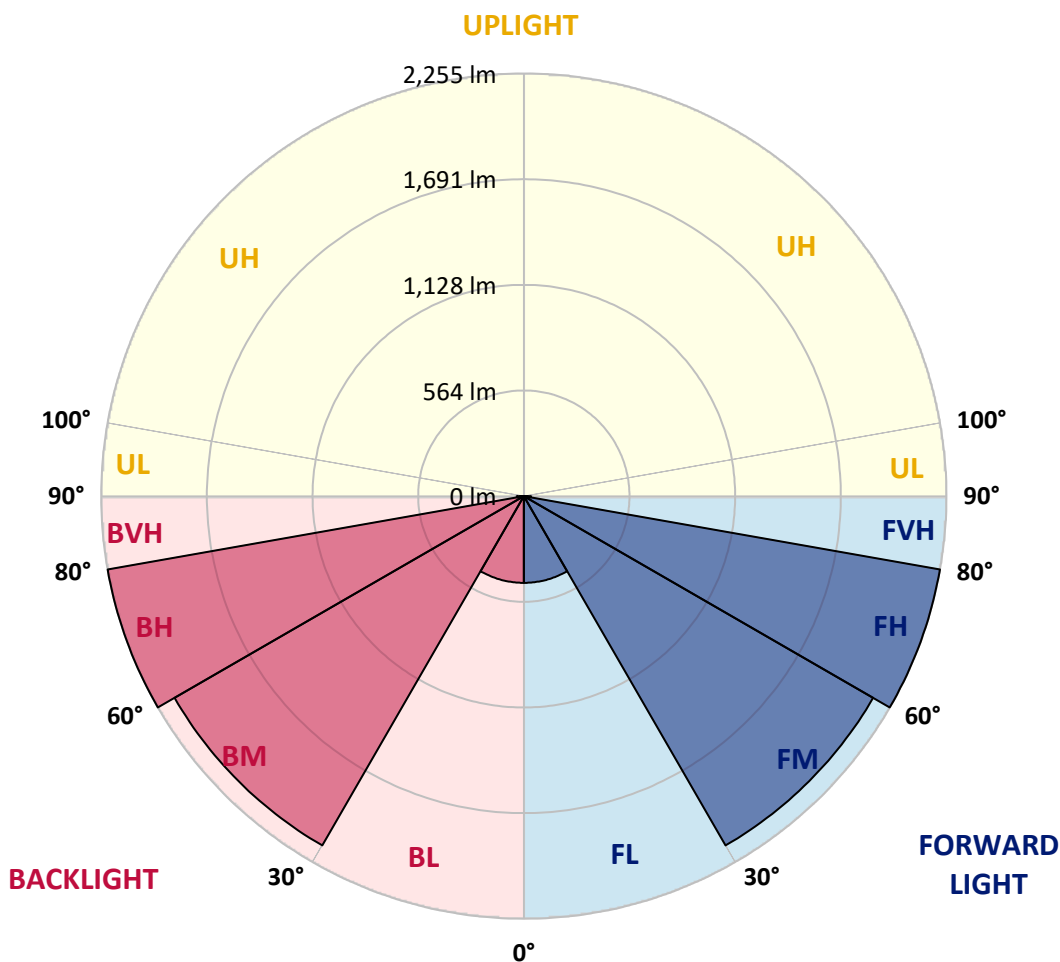
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.7	4.7			
FM (30°-60°)	2152.1	21.9			
FH (60°-80°)	2255.1	23.0			G2/5000
FVH (80°-90°)	37.8	0.4			G1/100
BL (0°-30°)	462.7	4.7	B1/500		
BM (30°-60°)	2152.1	21.9	B2/2500		
BH (60°-80°)	2255.1	23.0	B3/2500		G2/5000
BVH (80°-90°)	37.8	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4
2.5°	1078.0	1077.3	1078.7	1079.4	1078.0	1078.7	1074.5	1074.5	1076.6	1074.5	1077.3
5°	1082.9	1081.5	1082.9	1082.9	1079.4	1079.4	1074.5	1073.1	1074.5	1071.0	1073.8
7.5°	1083.6	1080.8	1082.9	1082.2	1079.4	1079.4	1072.4	1069.6	1070.3	1066.9	1068.9
10°	1076.6	1075.2	1078.0	1076.6	1074.5	1074.5	1068.9	1064.8	1064.8	1061.3	1063.4
12.5°	1072.4	1071.0	1074.5	1075.2	1073.8	1074.5	1067.6	1062.0	1059.9	1055.7	1057.1
15°	1072.4	1069.6	1075.2	1076.6	1078.0	1082.9	1072.4	1062.7	1058.5	1053.0	1054.3
17.5°	1071.7	1070.3	1076.6	1081.5	1082.9	1088.4	1076.6	1066.2	1061.3	1053.0	1054.3
20°	1071.7	1071.0	1078.7	1087.7	1091.9	1096.8	1084.2	1074.5	1066.2	1057.1	1057.1
22.5°	1075.2	1074.5	1084.9	1098.2	1110.0	1118.3	1103.7	1087.7	1076.6	1064.8	1063.4
25°	1089.8	1088.4	1100.9	1116.9	1132.9	1141.3	1126.7	1110.7	1094.7	1081.5	1080.1
27.5°	1119.7	1119.0	1131.5	1151.0	1162.1	1168.4	1155.9	1142.0	1126.0	1110.7	1110.0
30°	1160.1	1160.1	1176.1	1196.2	1202.5	1207.3	1194.8	1185.1	1168.4	1151.7	1150.3
32.5°	1208.7	1211.5	1230.3	1252.6	1256.7	1259.5	1246.3	1240.0	1222.0	1203.9	1201.1
35°	1272.7	1273.4	1296.4	1318.6	1324.2	1327.0	1311.7	1306.1	1289.4	1269.9	1265.8
37.5°	1354.1	1352.0	1373.6	1398.6	1404.2	1407.6	1395.1	1391.0	1370.1	1350.6	1344.4
40°	1445.2	1446.6	1470.9	1494.6	1498.1	1499.4	1493.2	1486.9	1467.5	1445.2	1437.5
42.5°	1550.9	1550.9	1579.4	1607.2	1607.2	1600.3	1597.5	1596.1	1577.3	1552.3	1544.0
45°	1671.9	1673.3	1708.8	1729.6	1731.0	1712.3	1715.0	1723.4	1705.3	1673.3	1662.2
47.5°	1804.8	1806.8	1848.6	1871.5	1867.4	1843.0	1858.3	1862.5	1841.6	1800.6	1786.0
50°	1944.6	1950.8	1997.4	2037.7	2032.2	1996.7	2016.9	2018.3	1984.2	1936.9	1916.7
52.5°	2095.5	2110.1	2172.0	2215.1	2220.7	2176.1	2193.5	2192.1	2148.3	2083.6	2070.4
55°	2282.6	2290.9	2352.1	2413.3	2434.2	2379.2	2398.7	2389.0	2329.8	2256.1	2233.9
57.5°	2469.6	2482.2	2560.7	2629.6	2671.3	2624.7	2628.9	2603.9	2529.4	2440.4	2429.3
60°	2691.5	2697.1	2784.0	2873.7	2946.0	2918.2	2898.7	2846.6	2759.0	2669.9	2653.9
62.5°	2873.0	2884.1	3013.5	3145.6	3268.0	3272.9	3213.8	3135.9	2996.1	2847.3	2815.3
65°	2923.1	2941.2	3122.7	3383.5	3638.0	3751.4	3589.4	3351.5	3039.2	2814.6	2766.6
67.5°	2690.1	2724.9	2984.3	3417.6	3982.3	4322.4	3888.4	3249.3	2813.2	2551.0	2505.1
70°	2092.0	2107.3	2411.9	3006.5	3987.9	4685.4	3768.1	2821.5	2306.2	2024.5	1957.1
72.5°	1111.4	1119.0	1393.7	2024.5	3245.1	4047.7	3113.6	1974.5	1357.6	1101.6	1024.4
75°	358.9	368.6	479.9	829.0	1790.2	2720.0	1836.1	821.4	468.1	377.6	357.5
77.5°	182.9	182.2	202.4	267.1	602.3	1333.2	637.1	287.9	202.4	181.5	176.0
80°	114.1	112.0	127.3	146.1	210.7	389.5	228.8	161.4	128.0	109.9	109.2
82.5°	64.7	64.7	85.5	93.9	118.9	160.7	133.5	110.6	87.6	65.4	63.3
85°	36.2	32.0	53.6	59.1	68.2	79.3	81.4	71.6	59.1	36.2	37.6
87.5°	13.2	14.6	25.0	23.6	27.1	18.8	33.4	37.6	33.4	17.4	14.6
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)