

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: P676548

Luminaire Tested: **CCW-SA-2C-730-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676548  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-730-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

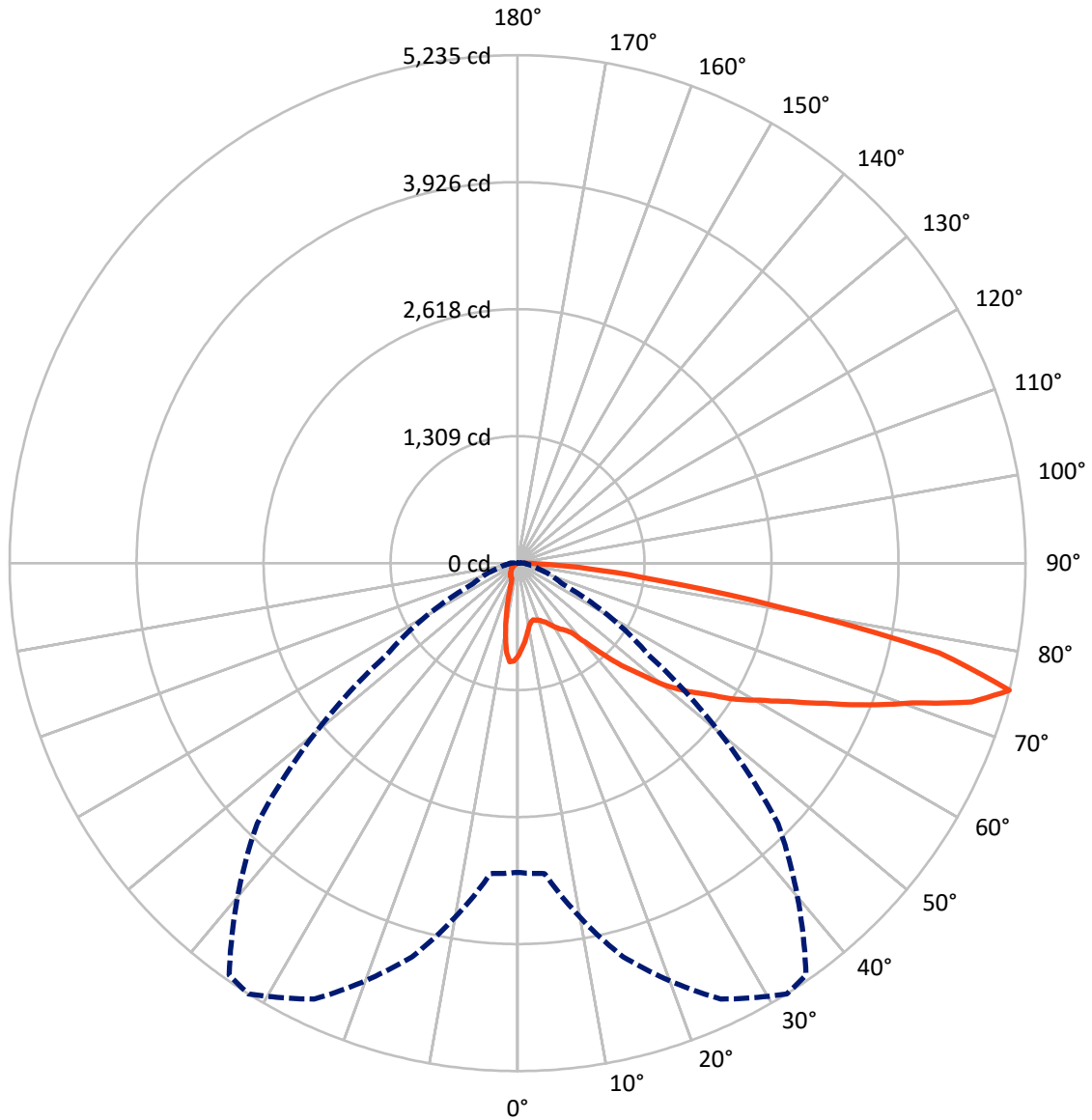
Lumens per Lamp: N/A  
Luminaire Lumens: 5911.8 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1  
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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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	638.7	0.0	638.7
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	5273.2	0.0	5273.2
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	5911.8	0.0	5911.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	1.4
10°-20°	190.4	3.2
20°-30°	285.1	4.8
30°-40°	437.7	7.4
40°-50°	765.5	12.9
50°-60°	1196.5	20.2
60°-70°	1546.9	26.2
70°-80°	1259.9	21.3
80°-90°	145.8	2.5
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°	5911.8	100.0
0°-180°	5911.8	100.0



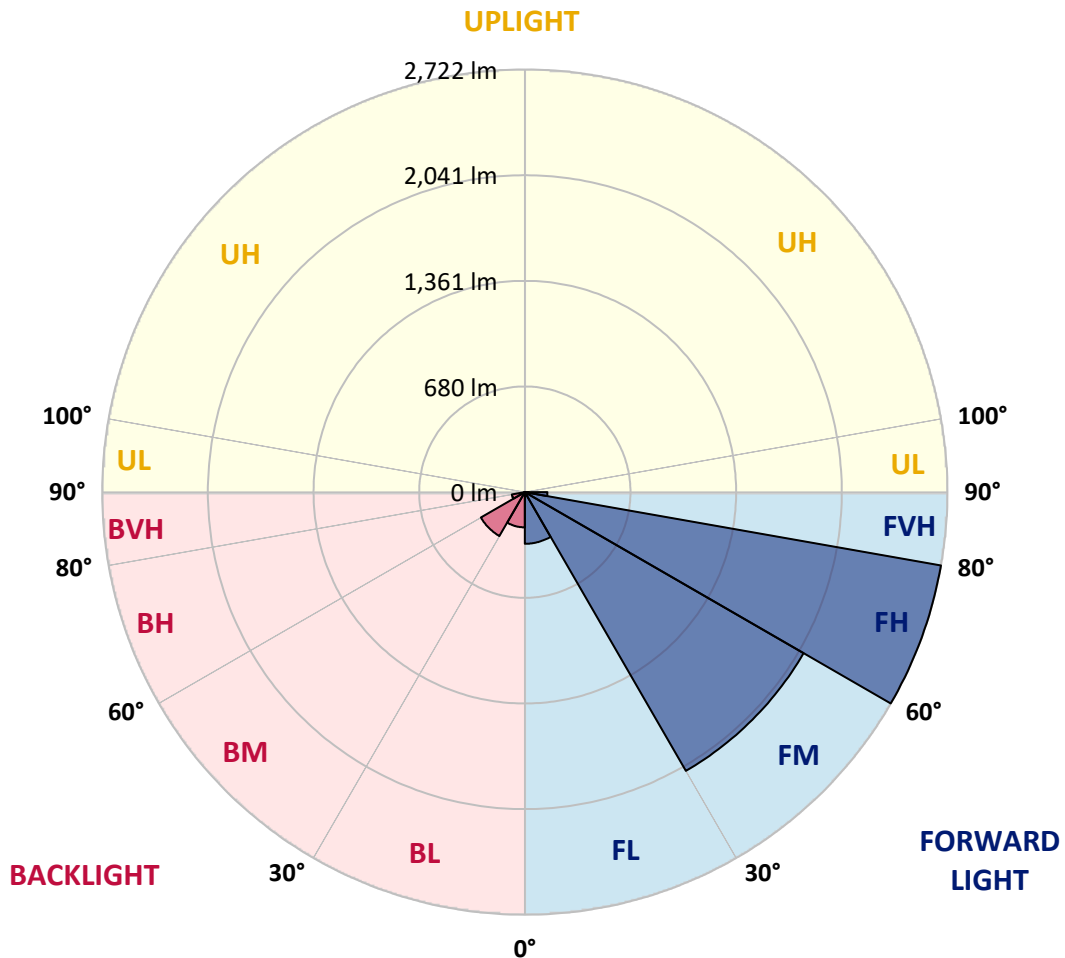
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.6	5.6			
FM (30°-60°)	2072.9	35.1			
FH (60°-80°)	2721.9	46.0			G2/5000
FVH (80°-90°)	145.7	2.5			G2/225
BL (0°-30°)	226.9	3.8	B1/500		
BM (30°-60°)	326.7	5.5	B1/1000		
BH (60°-80°)	84.9	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6
2.5°	856.1	868.2	866.7	874.3	875.8	880.3	890.9	890.9	921.2	942.5	956.1
5°	778.8	771.2	774.3	783.4	806.1	804.6	830.3	844.0	880.3	910.6	942.5
7.5°	683.4	681.8	687.9	709.1	725.8	739.4	766.7	801.5	850.0	895.5	951.5
10°	622.7	619.7	631.8	637.9	657.6	666.7	709.1	763.7	821.2	886.4	951.5
12.5°	609.1	598.5	604.6	603.1	621.2	625.8	666.7	733.4	803.1	883.4	963.7
15°	616.7	609.1	603.1	603.1	607.6	610.6	654.6	713.7	792.5	887.9	990.9
17.5°	640.9	636.4	618.2	600.0	619.7	619.7	647.0	709.1	794.0	901.5	1024.3
20°	669.7	665.2	633.4	612.1	625.8	640.9	669.7	719.7	798.5	912.2	1075.8
22.5°	701.5	701.5	657.6	633.4	651.5	653.1	704.6	753.1	816.7	939.4	1109.1
25°	740.9	737.9	695.5	668.2	674.3	690.9	737.9	789.4	850.0	977.3	1171.3
27.5°	792.5	787.9	737.9	710.6	718.2	736.4	789.4	840.9	880.3	992.5	1224.3
30°	834.9	830.3	789.4	748.5	765.2	781.8	844.0	889.4	918.2	1021.2	1284.9
32.5°	844.0	836.4	809.1	790.9	809.1	840.9	889.4	936.4	980.3	1094.0	1400.0
35°	948.5	921.2	850.0	821.2	848.5	859.1	939.4	1022.8	1065.2	1151.6	1528.8
37.5°	1148.5	1122.8	1028.8	948.5	910.6	922.8	1027.3	1130.3	1171.3	1259.1	1669.8
40°	1394.0	1351.6	1251.6	1144.0	1066.7	1051.6	1119.7	1271.3	1310.7	1394.0	1854.6
42.5°	1674.3	1633.4	1478.8	1351.6	1272.8	1253.1	1263.7	1434.9	1468.2	1518.2	1975.8
45°	1875.8	1854.6	1680.4	1566.7	1504.6	1483.4	1457.6	1613.7	1656.1	1672.8	2151.6
47.5°	1992.5	1977.3	1880.4	1803.1	1719.8	1697.0	1713.7	1862.2	1833.4	1847.0	2319.8
50°	2148.6	2109.2	1977.3	2001.6	1984.9	1978.9	2007.6	2072.8	2030.4	1991.0	2503.1
52.5°	2274.3	2204.6	2112.2	2171.3	2197.0	2219.8	2321.3	2369.8	2180.4	2119.8	2621.3
55°	2351.6	2284.9	2309.2	2363.7	2391.0	2495.5	2615.2	2578.9	2278.9	2222.8	2778.9
57.5°	2421.3	2425.8	2491.0	2507.7	2647.1	2665.2	2895.6	2777.4	2348.6	2316.7	2841.0
60°	2589.5	2572.8	2625.8	2733.4	2866.8	2968.3	3188.0	2910.7	2383.4	2365.2	2824.3
62.5°	2892.5	2789.5	2807.7	2944.0	3139.5	3250.1	3356.2	2971.3	2374.3	2372.8	2774.3
65°	3277.4	3159.2	3104.7	3231.9	3485.0	3641.0	3545.6	3039.5	2313.7	2356.1	2588.0
67.5°	3597.1	3598.6	3497.1	3568.3	3898.6	3932.0	3724.4	3025.9	2212.2	2224.3	2133.4
70°	3965.3	4015.3	3925.9	4148.6	4313.8	4335.0	3928.9	2913.7	1994.0	1677.3	1225.8
72.5°	4059.2	4085.0	4363.8	4706.2	4892.6	4898.7	4130.4	2539.5	1312.2	740.9	380.3
75°	3188.0	3212.2	4200.1	4957.7	5235.0	5182.0	3794.1	1648.5	510.6	216.7	90.9
77.5°	1778.8	1786.4	2607.7	4007.7	4441.1	4227.4	2657.7	642.4	206.1	124.2	42.4
80°	486.4	571.2	966.7	1975.8	2712.2	2662.2	1265.2	209.1	133.3	97.0	19.7
82.5°	116.7	125.8	310.6	874.3	1433.4	1495.5	377.3	106.1	92.4	80.3	10.6
85°	42.4	47.0	95.5	425.8	736.4	675.8	113.6	53.0	68.2	62.1	4.5
87.5°	15.2	15.2	30.3	139.4	215.2	162.1	37.9	18.2	34.8	37.9	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6
2.5°	957.6	957.6	978.8	997.0	1003.1	1010.6	1003.1	1019.7	1018.2	1010.6	1013.7
5°	959.1	986.4	1004.6	1016.7	1022.8	1021.2	1024.3	1006.1	995.5	987.9	980.3
7.5°	966.7	992.5	1025.8	1022.8	1006.1	971.2	944.0	895.5	848.5	847.0	839.4
10°	992.5	1015.2	1034.9	1022.8	962.2	856.1	769.7	704.6	645.5	618.2	621.2
12.5°	1010.6	1053.1	1044.0	981.9	856.1	716.7	589.4	494.0	440.9	390.9	390.9
15°	1048.5	1063.7	1060.6	922.8	725.8	559.1	404.6	307.6	251.5	228.8	225.8
17.5°	1084.9	1101.6	1050.0	833.4	597.0	375.8	245.5	190.9	183.3	180.3	181.8
20°	1130.3	1131.9	1040.9	744.0	448.5	237.9	175.8	171.2	172.7	171.2	171.2
22.5°	1178.8	1189.4	1009.1	618.2	298.5	172.7	163.6	165.2	165.2	165.2	169.7
25°	1242.5	1225.8	959.1	498.5	195.5	159.1	159.1	160.6	160.6	160.6	162.1
27.5°	1284.9	1262.2	895.5	359.1	153.0	150.0	153.0	153.0	156.1	156.1	156.1
30°	1372.8	1313.7	815.2	231.8	137.9	142.4	145.5	148.5	150.0	153.0	154.6
32.5°	1441.0	1359.1	715.2	154.6	125.8	128.8	136.4	142.4	148.5	147.0	147.0
35°	1565.2	1433.4	622.7	122.7	115.2	115.2	122.7	133.3	142.4	145.5	145.5
37.5°	1707.6	1494.0	494.0	112.1	106.1	106.1	110.6	122.7	134.9	140.9	137.9
40°	1825.8	1563.7	365.2	104.5	98.5	98.5	101.5	110.6	124.2	134.9	136.4
42.5°	1909.2	1615.2	247.0	97.0	92.4	90.9	95.5	100.0	110.6	125.8	128.8
45°	1984.9	1642.5	153.0	89.4	86.4	86.4	86.4	90.9	98.5	112.1	115.2
47.5°	2119.8	1672.8	110.6	83.3	78.8	80.3	81.8	83.3	89.4	92.4	93.9
50°	2233.4	1695.5	90.9	77.3	74.2	75.8	75.8	75.8	78.8	74.2	74.2
52.5°	2319.8	1672.8	77.3	71.2	68.2	69.7	68.2	68.2	65.2	59.1	59.1
55°	2383.4	1631.9	62.1	65.2	65.2	65.2	62.1	57.6	51.5	47.0	47.0
57.5°	2400.1	1562.2	48.5	54.5	59.1	59.1	53.0	47.0	39.4	34.8	33.3
60°	2374.3	1410.7	36.4	39.4	45.5	47.0	42.4	34.8	27.3	22.7	22.7
62.5°	2281.9	1291.0	28.8	25.8	33.3	34.8	30.3	22.7	15.2	10.6	9.1
65°	2106.1	1106.1	21.2	18.2	22.7	24.2	19.7	10.6	4.5	1.5	0.0
67.5°	1689.5	833.4	13.6	12.1	15.2	15.2	9.1	3.0	0.0	0.0	0.0
70°	934.9	468.2	9.1	6.1	7.6	4.5	1.5	0.0	0.0	0.0	0.0
72.5°	269.7	133.3	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	72.7	31.8	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	31.8	12.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)