

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: P675090

Luminaire Tested: **CCW-SA-1B-727-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675090  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-727-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T4FT distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

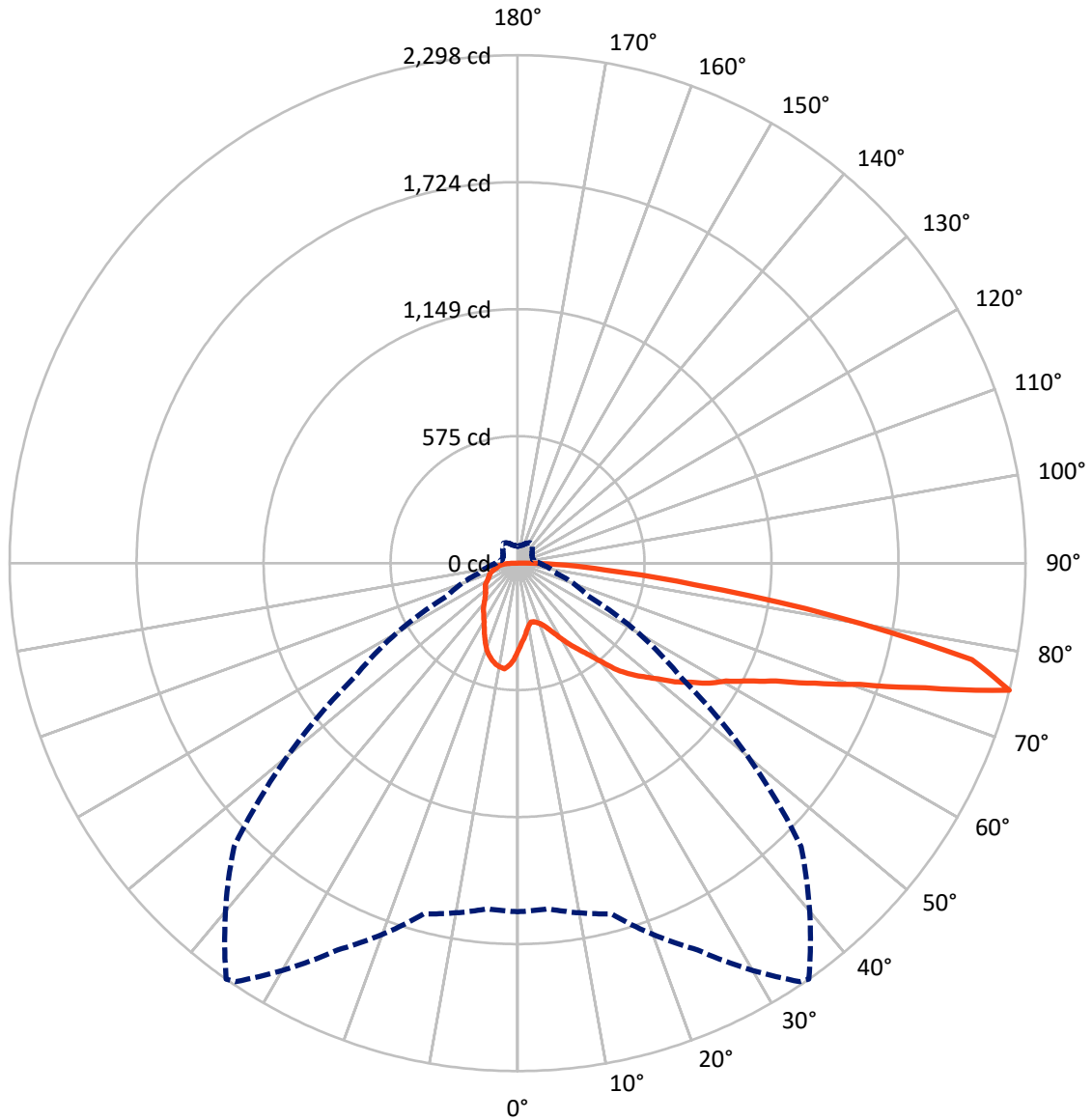
Lumens per Lamp: N/A  
Luminaire Lumens: 2886.5 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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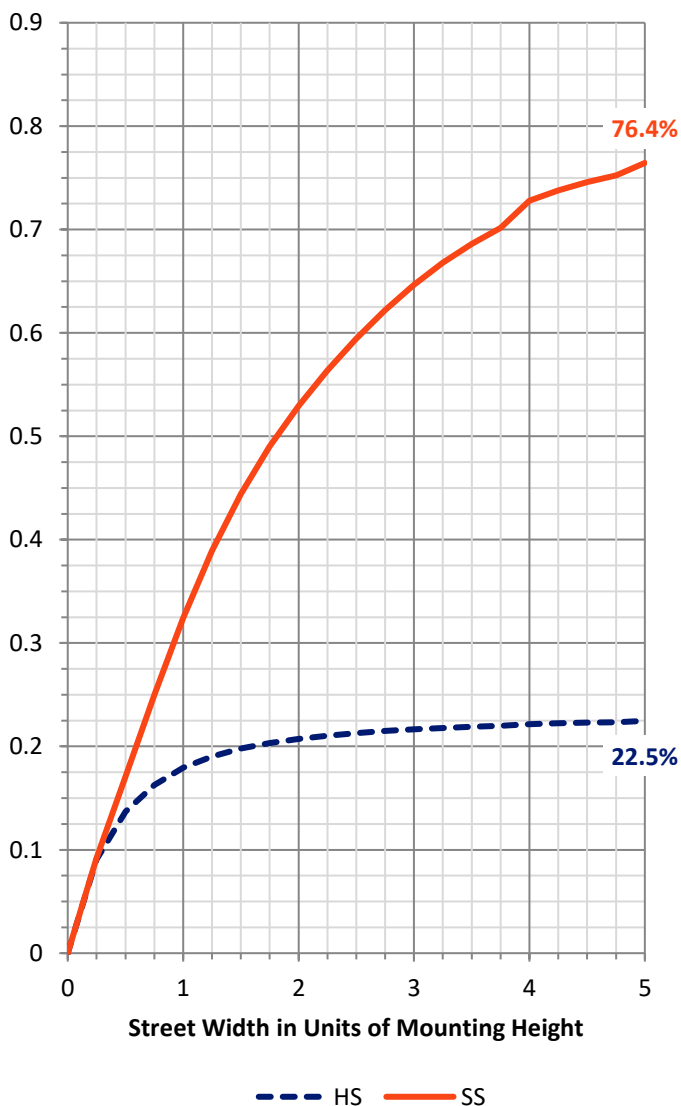
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	663.4	0.0	663.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	2223.1	0.0	2223.1
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	2886.5	0.0	2886.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.7	1.3
10°-20°	109.4	3.8
20°-30°	181.5	6.3
30°-40°	269.0	9.3
40°-50°	387.9	13.4
50°-60°	533.4	18.5
60°-70°	658.8	22.8
70°-80°	602.7	20.9
80°-90°	106.1	3.7
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°	2886.5	100.0
0°-180°	2886.5	100.0



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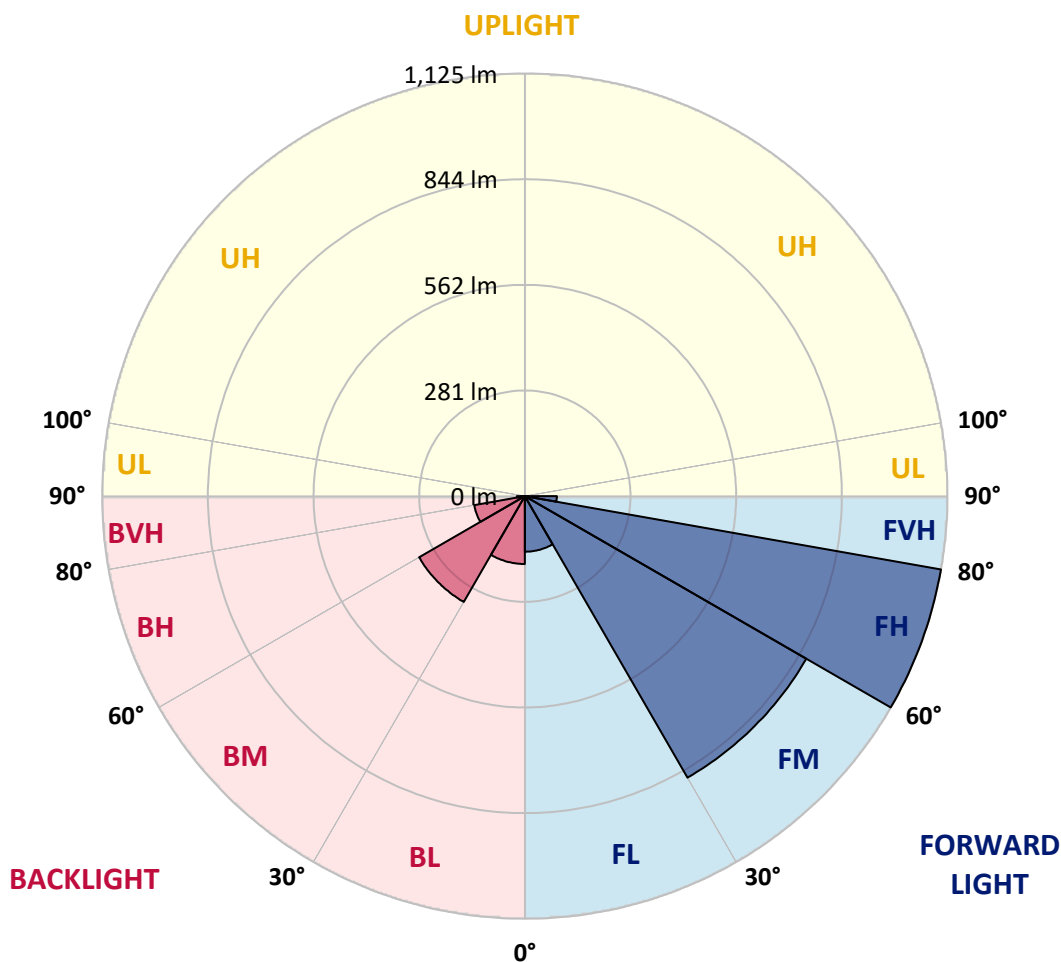
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.9	5.1			
FM (30°-60°)	865.2	30.0			
FH (60°-80°)	1124.8	39.0			G1/1800
FVH (80°-90°)	85.2	3.0			G1/100
BL (0°-30°)	180.6	6.3	B1/500		
BM (30°-60°)	325.1	11.3	B1/1000		
BH (60°-80°)	136.8	4.7	B1/500		G1/500
BVH (80°-90°)	21.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5
2.5°	358.3	355.1	358.3	360.4	360.4	360.4	363.6	373.1	379.5	383.8	391.2
5°	321.0	322.1	324.2	329.6	332.7	334.9	340.2	351.9	361.4	375.3	391.2
7.5°	288.1	290.2	293.4	298.7	306.2	305.1	316.8	332.7	350.8	368.9	392.3
10°	271.1	275.3	276.4	277.5	284.9	284.9	300.8	318.9	341.2	364.6	392.3
12.5°	274.3	274.3	271.1	270.0	274.3	273.2	287.0	308.3	332.7	365.7	396.5
15°	283.8	283.8	277.5	271.1	277.5	275.3	287.0	304.0	332.7	366.8	405.0
17.5°	296.6	297.7	290.2	279.6	281.7	282.8	291.3	307.2	332.7	368.9	416.7
20°	322.1	316.8	305.1	288.1	295.5	292.3	305.1	318.9	339.1	377.4	433.7
22.5°	344.4	344.4	322.1	307.2	308.3	308.3	320.0	331.7	348.7	389.1	446.5
25°	380.6	378.5	350.8	328.5	330.6	331.7	338.1	351.9	364.6	395.5	462.4
27.5°	426.3	421.0	393.3	367.8	359.3	362.5	365.7	376.3	379.5	406.1	481.6
30°	475.2	467.8	444.4	404.0	399.7	400.8	395.5	401.8	397.6	423.1	500.7
32.5°	506.0	506.0	483.7	453.9	442.2	442.2	424.2	428.4	428.4	439.0	534.7
35°	532.6	530.5	515.6	493.3	485.8	481.6	463.5	469.9	459.2	469.9	582.6
37.5°	573.0	566.6	560.2	545.4	530.5	527.3	517.7	522.0	507.1	501.8	636.8
40°	619.8	616.6	610.2	603.8	588.9	587.9	577.2	581.5	565.6	545.4	691.0
42.5°	688.9	679.3	659.1	653.8	657.0	661.2	657.0	649.5	620.8	595.3	749.5
45°	758.0	743.1	704.8	696.3	720.8	717.6	735.6	732.5	685.7	645.3	811.1
47.5°	802.6	789.9	759.0	753.7	764.3	768.6	822.8	813.2	738.8	691.0	870.7
50°	834.5	835.6	795.2	809.0	822.8	822.8	890.9	889.8	803.7	747.3	948.3
52.5°	881.3	866.4	849.4	862.2	881.3	891.9	975.9	952.5	844.1	795.2	1035.4
55°	905.7	899.4	884.5	906.8	947.2	952.5	1041.8	1023.7	889.8	851.5	1124.7
57.5°	915.3	920.6	945.1	954.6	1011.0	1024.8	1101.3	1075.8	932.3	921.7	1193.8
60°	957.8	950.4	983.3	1021.6	1075.8	1083.3	1175.8	1120.5	973.8	967.4	1216.2
62.5°	1043.9	1024.8	1042.9	1088.6	1164.1	1173.6	1254.4	1180.0	991.8	998.2	1215.1
65°	1169.4	1155.6	1129.0	1165.1	1271.4	1285.3	1346.9	1231.0	986.5	987.6	1129.0
67.5°	1317.1	1294.8	1267.2	1289.5	1419.2	1451.1	1459.6	1253.4	949.3	928.1	918.5
70°	1446.8	1432.0	1413.9	1452.2	1632.9	1644.6	1599.9	1239.5	846.2	745.2	612.3
72.5°	1568.0	1560.6	1571.2	1714.7	1922.0	1929.5	1731.7	1152.4	668.7	451.8	284.9
75°	1577.6	1570.2	1643.5	1931.6	2284.5	2298.4	1813.6	903.6	352.9	183.9	120.1
77.5°	1068.4	1090.7	1227.8	1691.3	2098.5	2101.7	1483.0	419.9	145.6	108.4	84.0
80°	262.6	291.3	462.4	874.9	1414.9	1450.0	812.2	141.4	95.7	82.9	62.7
82.5°	95.7	104.2	188.2	395.5	795.2	809.0	283.8	76.5	69.1	63.8	45.7
85°	45.7	46.8	89.3	194.5	401.8	397.6	102.1	45.7	50.0	43.6	27.6
87.5°	19.1	19.1	39.3	90.4	177.5	172.2	33.0	21.3	28.7	25.5	13.8
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°	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5	395.5
2.5°	396.5	398.7	407.2	413.5	419.9	425.2	433.7	433.7	439.0	439.0	439.0
5°	395.5	407.2	421.0	435.9	445.4	455.0	463.5	464.6	467.8	472.0	473.1
7.5°	399.7	411.4	433.7	455.0	466.7	470.9	481.6	478.4	478.4	478.4	481.6
10°	408.2	421.0	451.8	470.9	479.4	480.5	477.3	475.2	468.8	466.7	463.5
12.5°	414.6	436.9	467.8	482.6	479.4	476.3	468.8	458.2	450.7	448.6	448.6
15°	430.5	452.9	481.6	486.9	481.6	464.6	455.0	443.3	436.9	427.4	431.6
17.5°	444.4	469.9	495.4	489.0	478.4	451.8	438.0	421.0	412.5	401.8	401.8
20°	462.4	485.8	508.1	491.1	467.8	439.0	416.7	395.5	383.8	373.1	375.3
22.5°	482.6	503.9	515.6	482.6	451.8	418.9	388.0	367.8	352.9	346.6	348.7
25°	498.6	522.0	519.8	468.8	432.7	393.3	359.3	340.2	337.0	330.6	330.6
27.5°	518.8	543.2	516.7	451.8	400.8	352.9	331.7	324.2	324.2	321.0	323.2
30°	545.4	562.4	509.2	427.4	360.4	316.8	306.2	310.4	317.9	314.7	315.7
32.5°	588.9	586.8	502.8	399.7	317.9	281.7	289.2	297.7	304.0	307.2	309.4
35°	631.5	617.6	495.4	362.5	278.5	264.7	271.1	280.7	292.3	295.5	296.6
37.5°	674.0	649.5	482.6	316.8	254.1	249.8	256.2	261.5	271.1	273.2	275.3
40°	718.6	670.8	460.3	272.1	233.9	233.9	238.1	239.2	244.5	247.7	249.8
42.5°	758.0	691.0	419.9	230.7	212.6	220.1	221.1	219.0	214.7	216.9	217.9
45°	805.8	713.3	373.1	200.9	196.7	206.2	208.4	199.9	192.4	188.2	186.0
47.5°	852.6	736.7	332.7	176.5	181.8	196.7	196.7	187.1	174.3	163.7	159.5
50°	895.1	760.1	299.8	161.6	166.9	189.2	191.4	173.3	159.5	146.7	144.6
52.5°	966.3	799.4	265.8	149.9	158.4	183.9	182.8	166.9	148.8	135.0	133.9
55°	1029.1	838.8	221.1	138.2	149.9	176.5	179.7	160.5	136.1	123.3	121.2
57.5°	1074.8	848.3	176.5	126.5	141.4	168.0	172.2	147.8	127.6	116.9	115.9
60°	1083.3	811.1	143.5	116.9	129.7	156.3	159.5	140.3	121.2	112.7	110.6
62.5°	1043.9	739.9	122.3	108.4	120.1	144.6	151.0	131.8	114.8	107.4	106.3
65°	954.6	635.7	107.4	101.0	113.7	136.1	143.5	125.4	109.5	103.1	102.1
67.5°	755.8	487.9	95.7	95.7	105.2	127.6	138.2	121.2	104.2	99.9	98.9
70°	494.3	293.4	87.2	88.2	98.9	120.1	131.8	115.9	97.8	96.7	94.6
72.5°	212.6	135.0	77.6	80.8	89.3	107.4	122.3	108.4	90.4	87.2	84.0
75°	97.8	81.9	70.2	72.3	79.7	94.6	110.6	99.9	84.0	78.7	75.5
77.5°	69.1	59.5	58.5	62.7	68.0	81.9	97.8	93.6	77.6	73.4	71.2
80°	51.0	45.7	48.9	53.2	56.3	75.5	92.5	86.1	71.2	64.8	61.7
82.5°	36.1	34.0	38.3	42.5	45.7	65.9	85.0	75.5	59.5	54.2	48.9
85°	21.3	22.3	26.6	28.7	31.9	48.9	71.2	60.6	45.7	35.1	34.0
87.5°	9.6	9.6	12.8	13.8	15.9	28.7	47.8	38.3	28.7	22.3	21.3
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)