

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: P675778

Luminaire Tested: **CCW-SA-1D-850-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675778
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

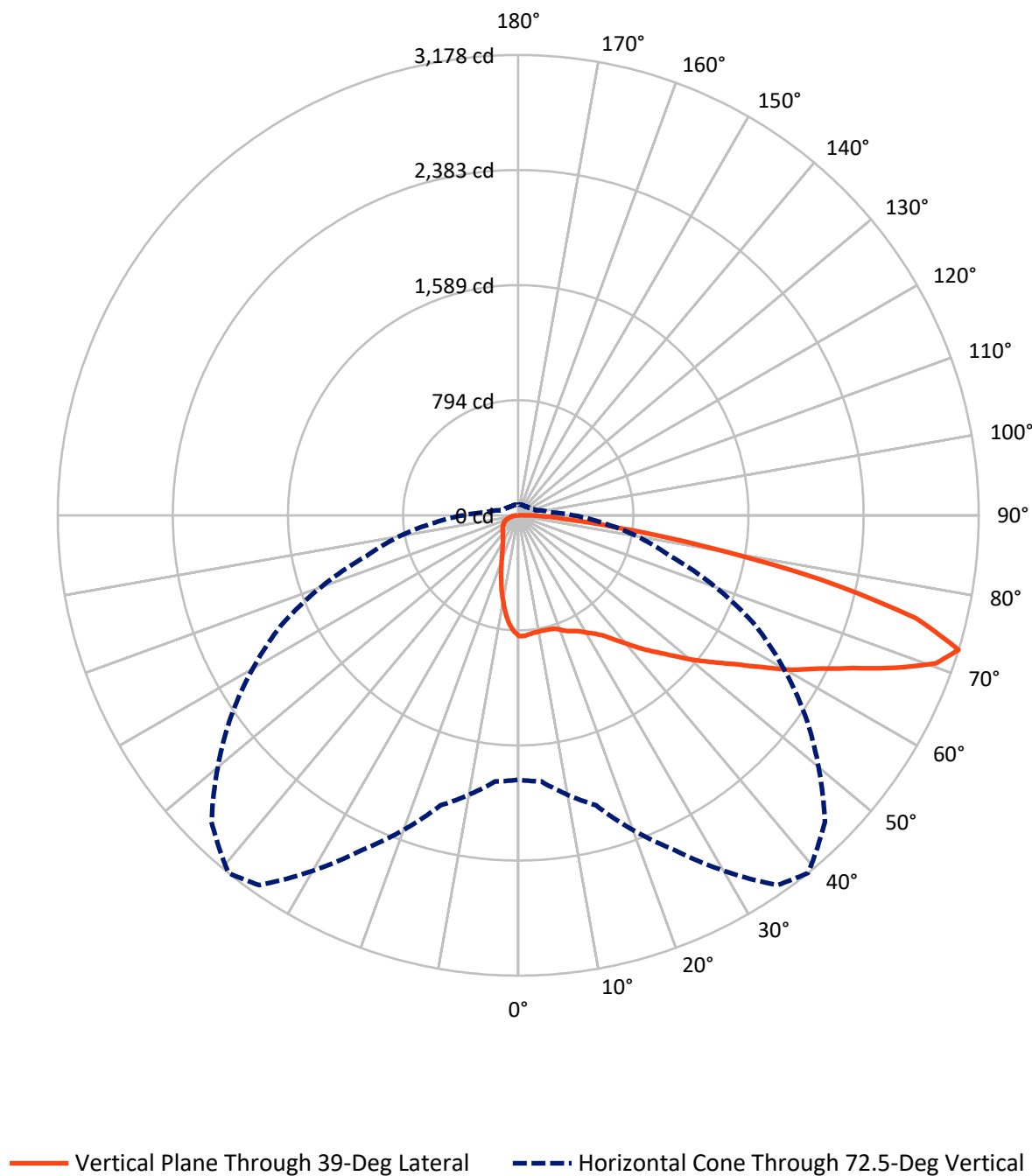
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4768.7 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

REPORT NUMBER: P675778
CATALOG NUMBER: CCW-SA-1D-850-U-SL4

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	708.7	0.0	708.7
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4060.0	0.0	4060.0
	% Fixture	85.1	0.0	85.1
Total	Lumens	4768.7	0.0	4768.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.5
10°-20°	188.3	3.9
20°-30°	286.8	6.0
30°-40°	419.5	8.8
40°-50°	642.3	13.5
50°-60°	942.0	19.8
60°-70°	1201.5	25.2
70°-80°	868.1	18.2
80°-90°	146.4	3.1
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°	4768.7	100.0
0°-180°	4768.7	100.0

Coefficient of Utilization



REPORT NUMBER: P675778

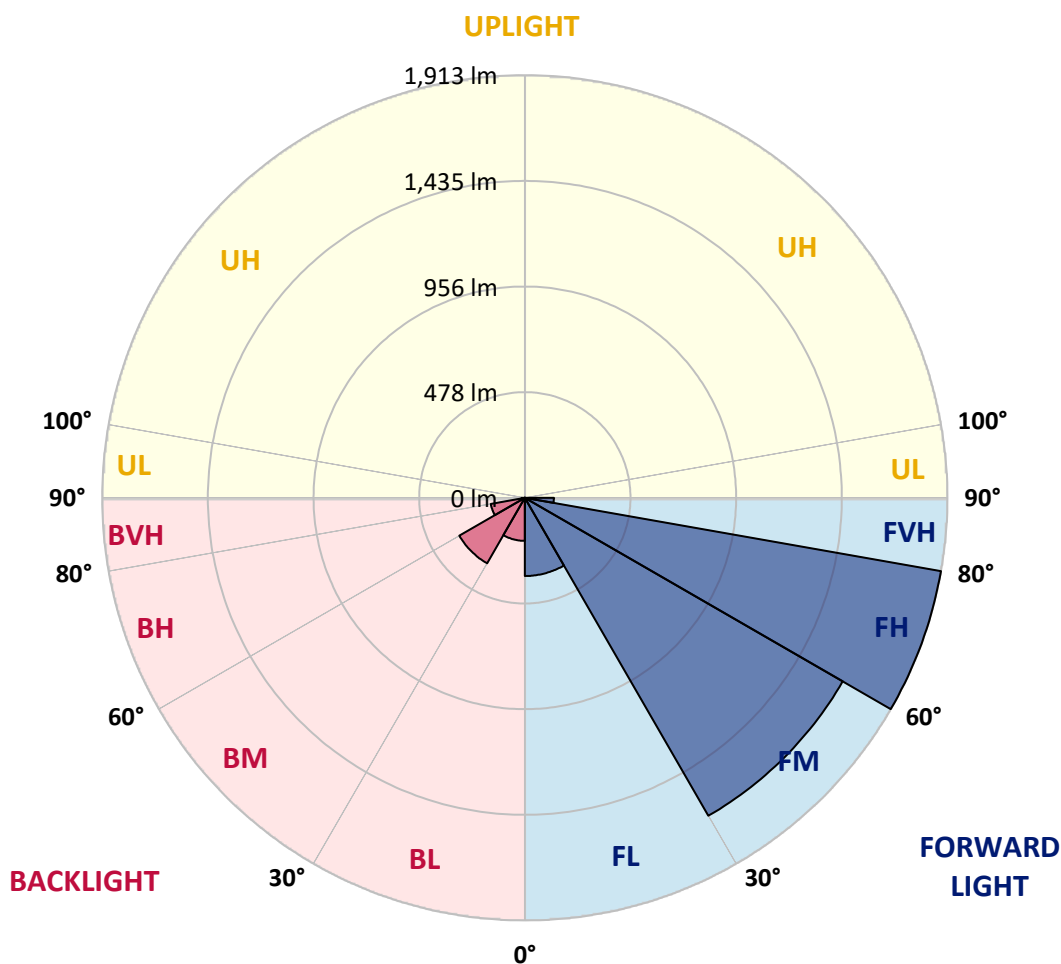
CATALOG NUMBER: CCW-SA-1D-850-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	353.9	7.4			
FM	(30°-60°)	1661.5	34.8			
FH	(60°-80°)	1912.9	40.1			G2/5000
FVH	(80°-90°)	131.6	2.8			G2/225
BL	(0°-30°)	194.9	4.1	B1/500		
BM	(30°-60°)	342.4	7.2	B1/1000		
BH	(60°-80°)	156.6	3.3	B1/500		G1/500
BVH	(80°-90°)	14.8	0.3			G1/100
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





REPORT NUMBER: P675778

CATALOG NUMBER: CCW-SA-1D-850-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	847.3	849.1	845.5	841.9	840.1	832.9	840.1	836.5	832.9	832.9	832.9
5°	836.5	838.3	838.3	834.7	836.5	824.0	822.2	824.0	818.6	815.0	813.2
7.5°	820.4	824.0	831.1	829.4	822.2	816.8	818.6	816.8	807.9	802.5	788.2
10°	807.9	811.4	815.0	818.6	816.8	815.0	813.2	806.1	804.3	791.7	777.4
12.5°	795.3	795.3	797.1	811.4	813.2	813.2	802.5	802.5	797.1	795.3	773.8
15°	782.8	788.2	802.5	806.1	813.2	816.8	811.4	811.4	802.5	789.9	773.8
17.5°	786.4	795.3	809.7	818.6	822.2	822.2	829.4	824.0	811.4	804.3	788.2
20°	804.3	806.1	824.0	840.1	843.7	843.7	836.5	831.1	822.2	809.7	788.2
22.5°	815.0	827.6	849.1	858.0	868.8	868.8	859.8	847.3	834.7	822.2	798.9
25°	861.6	863.4	872.3	886.7	892.1	884.9	875.9	861.6	845.5	832.9	811.4
27.5°	893.8	902.8	913.5	920.7	911.8	906.4	899.2	883.1	870.6	859.8	829.4
30°	953.0	942.2	949.4	953.0	936.8	940.4	920.7	906.4	892.1	892.1	858.0
32.5°	988.8	997.7	990.6	988.8	976.2	974.4	961.9	945.8	936.8	947.6	901.0
35°	1051.5	1046.1	1046.1	1044.3	1030.0	1021.0	1021.0	992.4	1001.3	1024.6	967.3
37.5°	1083.7	1081.9	1092.7	1101.6	1087.3	1092.7	1087.3	1074.8	1078.3	1119.5	1049.7
40°	1116.0	1128.5	1150.0	1153.6	1162.5	1169.7	1166.1	1164.3	1178.7	1244.9	1160.7
42.5°	1146.4	1157.2	1189.4	1218.1	1239.6	1262.8	1264.6	1264.6	1311.2	1406.1	1295.1
45°	1185.8	1194.8	1239.6	1296.9	1332.7	1348.8	1363.2	1379.3	1442.0	1554.8	1438.4
47.5°	1239.6	1246.7	1300.5	1372.1	1442.0	1450.9	1479.6	1497.5	1592.4	1707.1	1585.3
50°	1316.6	1311.2	1354.2	1458.1	1526.2	1569.2	1610.3	1642.6	1735.7	1861.1	1699.9
52.5°	1379.3	1379.3	1411.5	1549.4	1642.6	1683.8	1726.8	1771.6	1879.0	2015.2	1793.1
55°	1486.8	1476.0	1495.7	1639.0	1773.4	1812.8	1895.2	1932.8	2036.7	2129.8	1871.9
57.5°	1560.2	1565.6	1588.9	1757.2	1927.4	1975.8	2058.2	2085.0	2176.4	2249.8	1929.2
60°	1656.9	1639.0	1689.2	1888.0	2097.6	2165.6	2233.7	2249.8	2317.9	2326.9	1956.1
62.5°	1750.1	1746.5	1789.5	2018.8	2280.3	2328.6	2398.5	2416.4	2445.1	2387.8	1918.4
65°	1807.4	1830.7	1911.3	2162.1	2488.1	2541.8	2611.7	2575.8	2543.6	2334.0	1733.9
67.5°	1886.2	1897.0	2020.5	2317.9	2728.1	2808.7	2869.6	2728.1	2488.1	2113.7	1459.9
70°	1904.1	1932.8	2094.0	2480.9	2975.3	3057.7	3061.3	2676.2	2285.7	1719.6	1058.6
72.5°	1825.3	1845.0	2072.5	2549.0	3116.8	3177.7	2993.2	2420.0	1811.0	1083.7	576.8
75°	1535.1	1590.6	1803.8	2339.4	2857.1	2833.8	2536.4	1846.8	1087.3	480.1	243.6
77.5°	1069.4	1071.2	1293.3	1701.7	2138.8	2133.4	1809.2	1071.2	465.7	193.5	143.3
80°	474.7	508.7	643.1	917.1	1298.7	1298.7	1055.1	532.0	232.9	125.4	98.5
82.5°	279.4	290.2	343.9	428.1	632.3	666.4	505.1	354.7	159.4	78.8	60.9
85°	206.0	223.9	256.2	257.9	299.1	304.5	279.4	308.1	109.3	43.0	50.2
87.5°	154.0	164.8	204.2	170.2	159.4	150.5	172.0	315.3	41.2	21.5	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675778

CATALOG NUMBER: CCW-SA-1D-850-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	825.8	825.8	822.2	815.0	815.0	800.7	804.3	807.9	798.9	798.9	800.7
5°	813.2	806.1	797.1	786.4	779.2	759.5	755.9	743.4	741.6	738.0	732.6
7.5°	788.2	777.4	761.3	745.2	721.9	704.0	682.5	664.6	657.4	652.0	650.2
10°	764.9	763.1	736.2	704.0	668.1	634.1	601.9	578.6	564.2	555.3	553.5
12.5°	764.9	750.5	712.9	668.1	616.2	566.0	524.8	492.6	472.9	458.6	453.2
15°	761.3	747.0	696.8	628.7	569.6	501.6	444.2	410.2	381.5	367.2	369.0
17.5°	764.9	743.4	673.5	600.1	517.7	444.2	376.2	335.0	306.3	295.6	293.8
20°	766.7	739.8	655.6	560.7	463.9	381.5	317.1	277.6	256.2	249.0	249.0
22.5°	763.1	729.0	628.7	514.1	417.4	329.6	275.9	241.8	227.5	218.5	222.1
25°	779.2	727.3	603.7	474.7	363.6	286.6	245.4	220.3	211.4	206.0	207.8
27.5°	782.8	727.3	584.0	429.9	317.1	254.4	222.1	206.0	198.8	195.2	193.5
30°	797.1	730.8	560.7	385.1	279.4	229.3	204.2	195.2	189.9	188.1	188.1
32.5°	836.5	741.6	535.6	347.5	247.2	207.8	191.7	184.5	180.9	179.1	180.9
35°	883.1	770.2	508.7	308.1	223.9	193.5	180.9	175.5	173.8	173.8	173.8
37.5°	954.7	813.2	485.4	275.9	204.2	179.1	170.2	168.4	166.6	168.4	168.4
40°	1037.1	859.8	463.9	250.8	189.9	170.2	161.2	161.2	159.4	161.2	163.0
42.5°	1132.1	917.1	442.4	225.7	177.3	163.0	155.8	154.0	152.3	155.8	157.6
45°	1262.8	995.9	428.1	211.4	168.4	155.8	148.7	148.7	146.9	146.9	150.5
47.5°	1372.1	1071.2	428.1	197.0	163.0	150.5	143.3	143.3	139.7	141.5	141.5
50°	1463.5	1135.7	437.1	193.5	155.8	145.1	139.7	136.1	134.3	134.3	134.3
52.5°	1524.4	1175.1	444.2	189.9	152.3	137.9	134.3	132.6	129.0	127.2	129.0
55°	1585.3	1201.9	446.0	189.9	146.9	130.8	127.2	127.2	123.6	121.8	121.8
57.5°	1608.6	1191.2	420.9	186.3	143.3	125.4	121.8	120.0	118.2	116.4	116.4
60°	1597.8	1151.8	365.4	177.3	139.7	121.8	114.6	114.6	114.6	111.1	112.8
62.5°	1524.4	1017.4	293.8	163.0	134.3	114.6	107.5	111.1	111.1	109.3	109.3
65°	1330.9	840.1	238.2	150.5	127.2	109.3	102.1	107.5	109.3	107.5	105.7
67.5°	1064.0	646.6	197.0	136.1	118.2	100.3	94.9	100.3	102.1	100.3	100.3
70°	730.8	417.4	159.4	121.8	105.7	91.4	86.0	89.6	89.6	91.4	91.4
72.5°	378.0	225.7	130.8	103.9	91.4	82.4	77.0	77.0	75.2	75.2	75.2
75°	188.1	154.0	109.3	87.8	77.0	69.9	66.3	62.7	62.7	62.7	62.7
77.5°	130.8	118.2	89.6	69.9	62.7	57.3	57.3	51.9	51.9	51.9	51.9
80°	98.5	93.1	68.1	53.7	48.4	44.8	44.8	43.0	43.0	41.2	41.2
82.5°	69.9	75.2	51.9	39.4	35.8	34.0	34.0	32.2	32.2	28.7	28.7
85°	55.5	62.7	39.4	28.7	26.9	23.3	23.3	21.5	21.5	19.7	17.9
87.5°	16.1	34.0	16.1	10.7	10.7	10.7	10.7	9.0	9.0	7.2	7.2
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)