

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: P401662

Luminaire Tested: **ENT-SA1E-735-U-T4FT**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-SA1E-735-U-T4FT  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6327 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.2  
Input Voltage (V): NR  
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

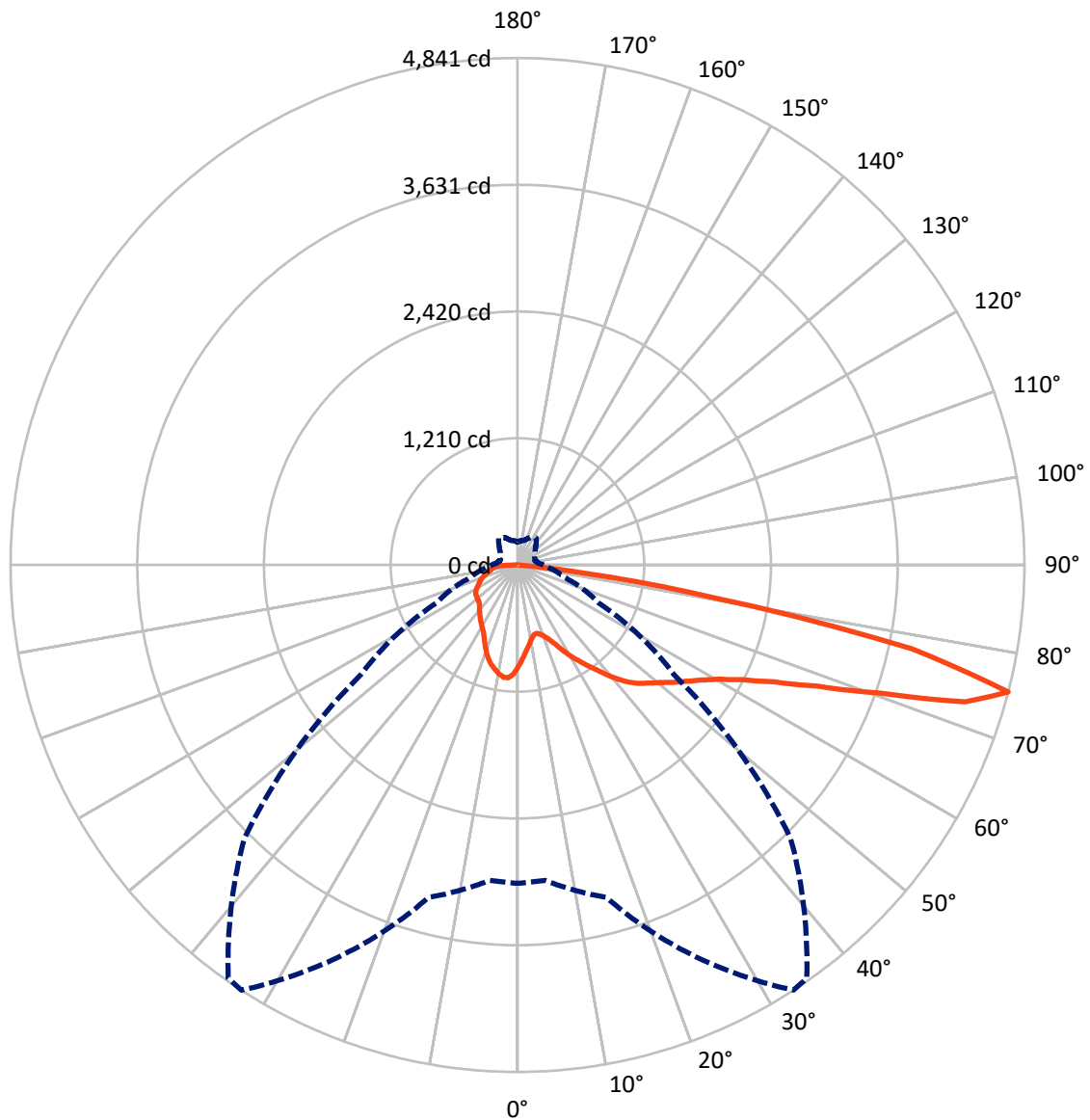




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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1537.0	0.0	1537.0
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	4790.0	0.0	4790.0
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	6327.0	0.0	6327.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	1.4
10°-20°	254.7	4.0
20°-30°	423.5	6.7
30°-40°	631.9	10.0
40°-50°	882.7	14.0
50°-60°	1178.3	18.6
60°-70°	1461.0	23.1
70°-80°	1263.1	20.0
80°-90°	141.2	2.2
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°	6327.0	100.0
0°-180°	6327.0	100.0



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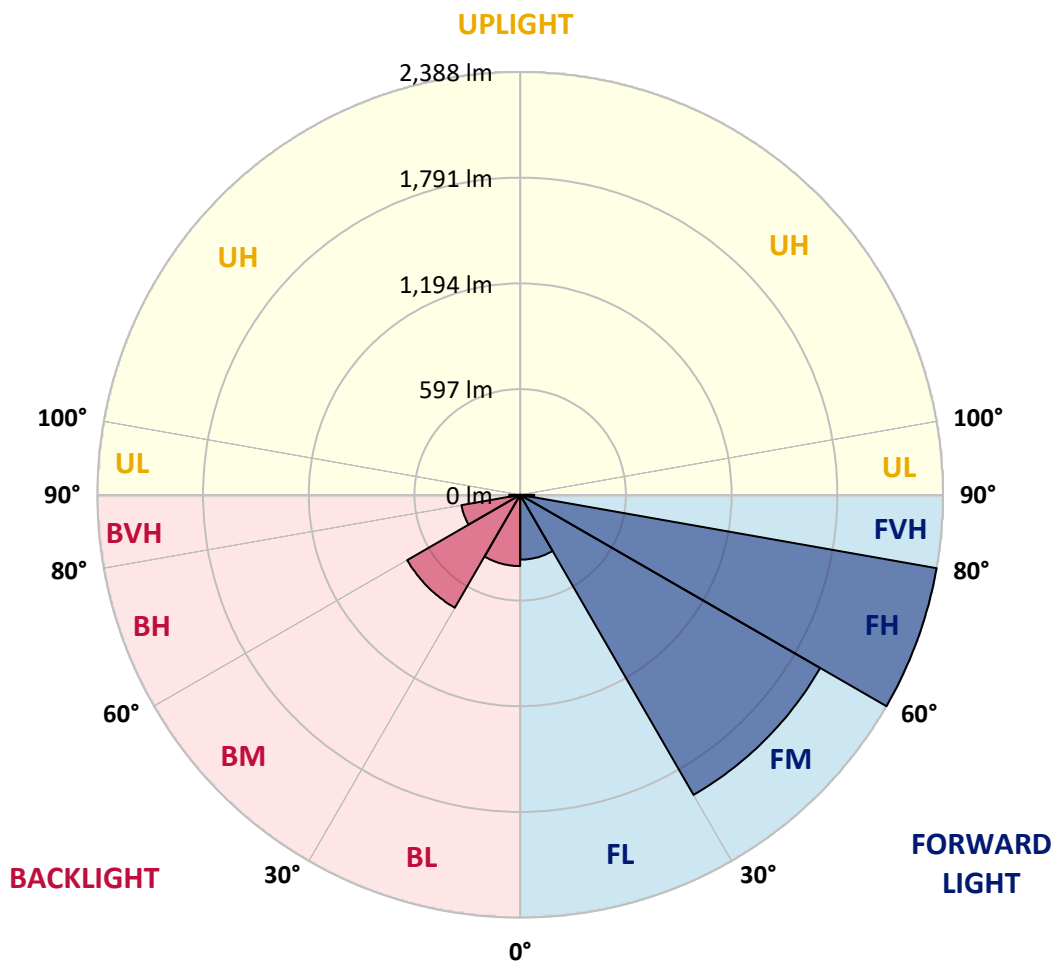
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	366.3	5.8			
FM	(30°-60°)	1956.3	30.9			
FH	(60°-80°)	2387.5	37.7			G2/5000
FVH	(80°-90°)	79.8	1.3			G1/100
BL	(0°-30°)	402.5	6.4	B1/500		
BM	(30°-60°)	736.5	11.6	B1/1000		
BH	(60°-80°)	336.6	5.3	B1/500		G1/500
BVH	(80°-90°)	61.4	1.0			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5
2.5°	879.3	881.2	886.8	893.4	897.2	897.2	907.5	919.7	934.7	947.9	962.0
5°	806.0	808.8	813.5	822.0	832.3	834.2	854.9	876.5	903.7	932.8	961.0
7.5°	733.7	739.3	748.7	760.0	776.0	779.7	808.8	838.0	875.5	919.7	965.7
10°	678.3	682.0	686.7	702.7	722.4	729.0	767.5	804.1	855.8	910.3	971.4
12.5°	663.2	663.2	663.2	670.7	686.7	692.4	732.8	779.7	838.0	903.7	979.8
15°	684.8	683.9	673.6	667.9	677.3	682.0	716.8	762.8	828.6	905.6	995.8
17.5°	733.7	730.9	706.4	687.7	694.2	697.1	719.6	759.1	825.8	913.1	1019.3
20°	797.6	791.0	753.4	725.2	724.3	726.2	743.1	770.3	830.5	926.3	1044.6
22.5°	882.1	878.4	822.9	779.7	772.2	772.2	779.7	796.6	842.7	941.3	1079.4
25°	991.1	980.8	914.1	855.8	838.9	834.2	833.3	833.3	864.3	963.8	1122.6
27.5°	1102.9	1090.7	1023.0	944.1	921.6	913.1	898.1	886.8	892.5	988.3	1174.3
30°	1203.4	1186.5	1129.2	1047.5	1013.6	1000.5	973.2	949.8	934.7	1022.1	1242.9
32.5°	1258.8	1252.3	1212.8	1138.6	1100.1	1094.4	1049.3	1018.3	992.0	1066.2	1334.9
35°	1333.0	1324.6	1299.2	1238.2	1192.1	1178.0	1144.2	1107.6	1065.3	1125.4	1451.4
37.5°	1401.6	1396.9	1387.5	1345.3	1296.4	1282.3	1251.3	1212.8	1155.5	1212.8	1582.0
40°	1471.1	1465.5	1461.7	1446.7	1412.0	1402.6	1387.5	1342.4	1265.4	1308.6	1710.7
42.5°	1572.6	1560.4	1520.9	1520.0	1522.8	1530.3	1531.3	1481.5	1385.7	1427.9	1823.4
45°	1705.1	1671.2	1582.9	1580.1	1613.0	1632.7	1680.6	1638.4	1510.6	1550.1	1949.3
47.5°	1772.7	1737.9	1646.8	1641.2	1684.4	1713.5	1831.9	1790.5	1640.2	1687.2	2079.9
50°	1805.6	1783.0	1703.2	1721.0	1765.2	1793.4	1975.6	1942.7	1774.6	1835.6	2244.3
52.5°	1851.6	1814.0	1757.7	1795.2	1861.0	1890.1	2104.3	2098.7	1888.2	1997.2	2424.7
55°	1835.6	1815.9	1826.2	1877.0	1959.6	2002.9	2234.0	2234.0	2003.8	2170.1	2603.1
57.5°	1848.8	1835.6	1921.1	1966.2	2070.5	2132.5	2389.9	2348.6	2101.5	2314.7	2723.4
60°	1960.6	1923.0	1989.7	2078.9	2213.3	2273.4	2568.4	2468.8	2181.3	2439.7	2745.0
62.5°	2157.9	2127.8	2134.4	2236.8	2410.6	2480.1	2745.0	2575.0	2234.9	2492.3	2664.2
65°	2484.8	2470.7	2389.9	2451.9	2691.5	2754.4	2965.8	2667.0	2219.9	2452.8	2451.0
67.5°	2924.4	2868.1	2759.1	2814.5	3090.7	3154.6	3231.6	2701.8	2122.2	2217.0	1970.0
70°	3288.9	3242.0	3192.2	3337.8	3655.3	3690.1	3508.7	2668.9	1884.5	1735.1	1320.8
72.5°	3521.0	3487.1	3533.2	3961.6	4469.8	4404.0	3782.1	2438.7	1470.2	1062.5	660.4
75°	3039.0	3023.1	3286.1	4155.1	4840.9	4816.4	3687.2	1825.3	853.0	467.8	300.6
77.5°	1528.4	1702.2	1979.4	2947.9	3851.6	3856.3	2686.8	877.4	358.9	262.1	206.7
80°	430.3	435.9	660.4	1215.6	1923.0	2048.9	1016.5	297.8	204.8	195.4	154.1
82.5°	102.4	94.9	169.1	359.8	645.4	671.7	305.3	107.1	114.6	122.1	94.9
85°	0.9	0.9	0.9	0.9	0.9	1.9	11.3	11.3	27.2	34.8	27.2
87.5°	0.0	0.0	0.0	0.9	0.9	0.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5
2.5°	968.5	977.9	993.0	1006.1	1017.4	1025.9	1039.0	1040.9	1044.6	1046.5	1048.4
5°	977.0	994.9	1023.0	1047.5	1064.4	1069.1	1080.3	1079.4	1080.3	1080.3	1079.4
7.5°	988.3	1012.7	1052.2	1079.4	1088.8	1086.0	1083.2	1072.8	1064.4	1060.6	1055.9
10°	1002.4	1030.5	1076.6	1096.3	1091.6	1076.6	1058.7	1039.9	1024.9	1017.4	1015.5
12.5°	1016.5	1053.1	1096.3	1101.9	1083.2	1055.9	1025.9	1005.2	985.5	975.1	975.1
15°	1039.9	1080.3	1112.3	1101.0	1067.2	1032.4	991.1	962.9	940.4	926.3	925.3
17.5°	1068.1	1111.3	1129.2	1096.3	1047.5	998.6	948.8	912.2	883.1	869.0	860.5
20°	1102.9	1143.3	1137.6	1081.3	1018.3	958.2	896.2	852.1	822.0	807.0	804.1
22.5°	1142.3	1176.2	1140.5	1056.9	978.9	901.8	834.2	790.1	770.3	759.1	760.0
25°	1190.3	1216.6	1141.4	1027.7	922.5	827.6	768.4	747.8	745.0	740.3	742.1
27.5°	1250.4	1258.8	1137.6	988.3	850.2	749.7	714.9	723.4	730.9	728.1	729.9
30°	1321.8	1309.6	1129.2	931.0	760.9	678.3	680.1	698.9	709.3	706.4	707.4
32.5°	1405.4	1360.3	1113.2	861.5	676.4	635.1	650.1	668.9	679.2	679.2	680.1
35°	1499.3	1421.3	1082.2	771.3	617.2	608.7	621.9	636.9	643.5	639.7	642.6
37.5°	1598.0	1474.0	1032.4	670.7	573.0	588.1	595.6	599.4	598.4	592.8	590.0
40°	1690.0	1515.3	943.2	571.2	536.4	566.5	570.2	559.9	547.7	537.4	530.8
42.5°	1760.5	1536.9	819.2	498.8	501.7	542.0	544.9	524.2	500.7	484.7	481.0
45°	1832.8	1544.4	696.1	440.6	464.1	517.6	525.1	497.0	465.0	446.2	443.4
47.5°	1915.5	1563.2	574.9	400.2	432.1	500.7	512.9	478.2	442.5	414.3	409.6
50°	2026.3	1598.9	483.8	369.2	409.6	492.3	509.2	463.1	418.0	387.0	383.3
52.5°	2167.3	1651.5	399.3	344.8	391.7	479.1	503.5	448.1	400.2	362.6	357.0
55°	2288.4	1671.2	344.8	324.1	373.0	463.1	498.8	442.5	380.5	338.2	331.6
57.5°	2343.9	1614.9	306.3	303.4	353.2	443.4	489.4	423.7	358.9	326.0	320.3
60°	2318.5	1474.9	277.1	284.6	330.7	418.0	465.0	404.9	343.8	316.6	310.9
62.5°	2205.8	1313.3	255.5	266.8	305.3	386.1	436.8	388.0	330.7	306.3	298.7
65°	2007.5	1135.8	239.6	250.8	282.8	355.1	414.3	368.3	315.6	291.2	284.6
67.5°	1638.4	903.7	222.6	234.9	264.0	329.7	393.6	352.3	298.7	282.8	277.1
70°	1084.1	607.8	206.7	218.9	245.2	305.3	372.0	335.4	282.8	272.4	264.9
72.5°	497.9	326.9	189.8	202.0	223.6	278.1	344.8	310.0	261.2	254.6	243.3
75°	246.1	201.0	169.1	180.4	197.3	245.2	312.8	288.4	241.4	230.2	217.0
77.5°	179.4	150.3	145.6	156.9	171.0	217.0	279.0	265.9	221.7	205.7	198.2
80°	133.4	116.5	122.1	133.4	146.6	196.3	261.2	248.9	204.8	188.8	183.2
82.5°	81.7	78.0	93.9	107.1	123.1	180.4	248.9	227.3	184.1	169.1	162.5
85°	23.5	28.2	47.9	69.5	87.4	145.6	232.0	199.2	155.0	129.6	124.9
87.5°	0.0	2.8	15.0	31.9	51.7	96.8	178.5	155.9	118.4	95.8	92.1
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)