

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: P179997

Luminaire Tested: **ICM-E05-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179997
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E05-LED-E1-5MQ-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

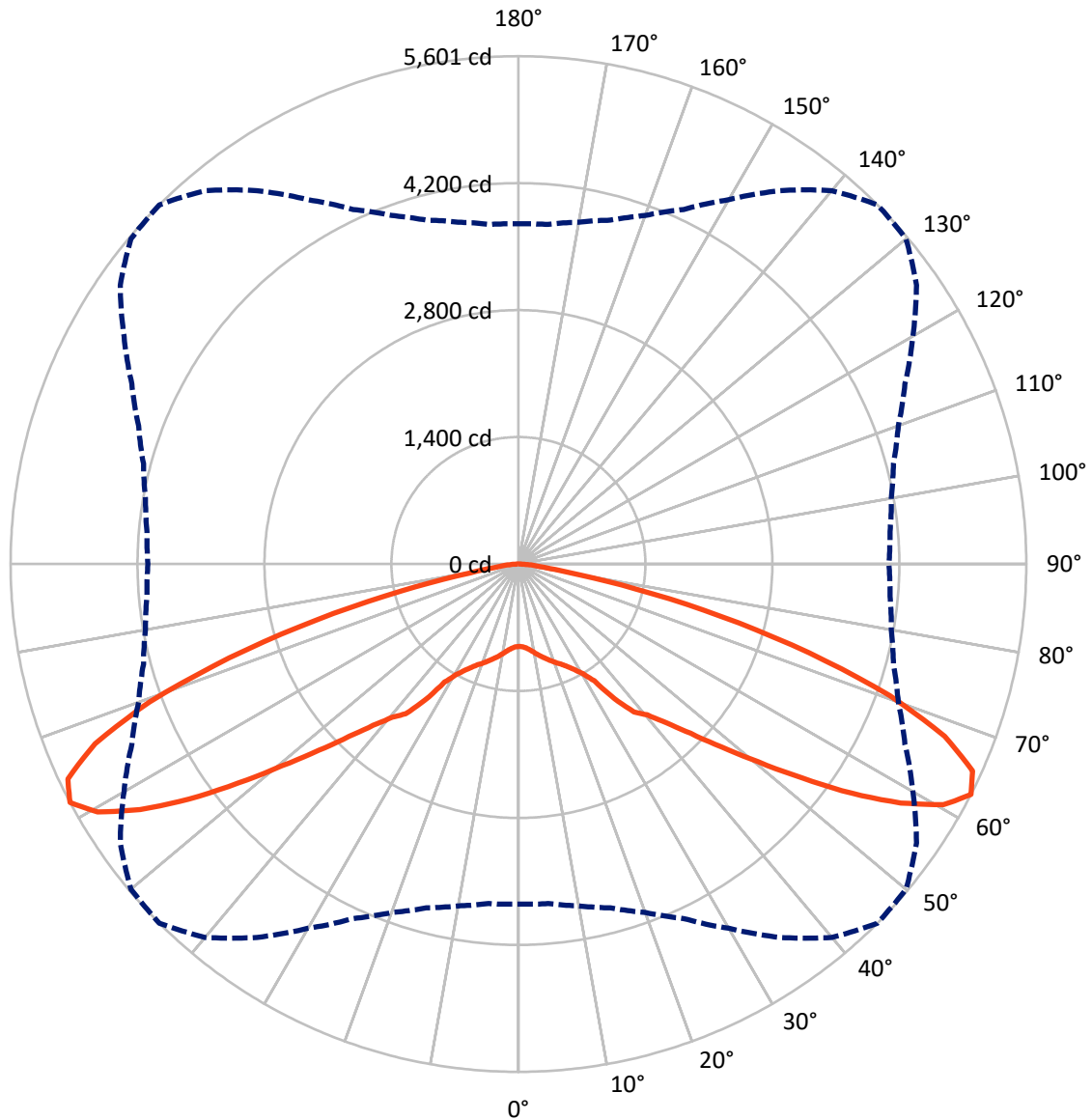
Lumens per Lamp: N/A
Luminaire Lumens: 13695.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): 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 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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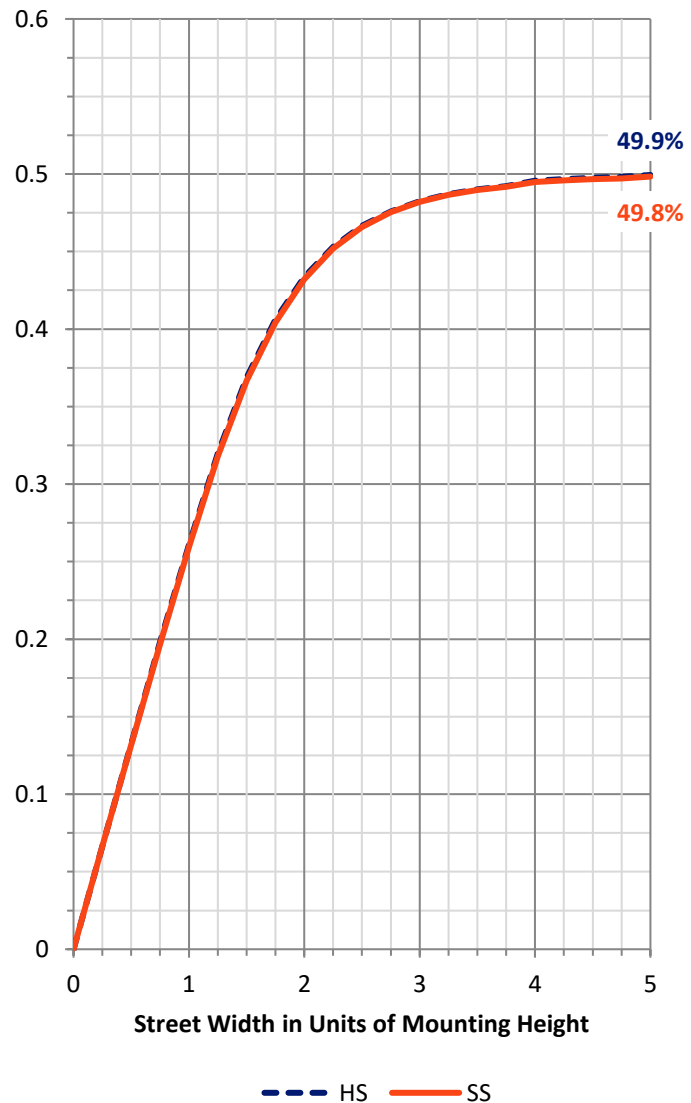
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6847.6	0.0	6847.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6847.6	0.0	6847.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13695.1	0.0	13695.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	0.7
10°-20°	308.0	2.2
20°-30°	595.5	4.3
30°-40°	1152.9	8.4
40°-50°	2081.7	15.2
50°-60°	3619.7	26.4
60°-70°	4109.4	30.0
70°-80°	1593.2	11.6
80°-90°	143.7	1.0
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°	13695.1	100.0
0°-180°	13695.1	100.0



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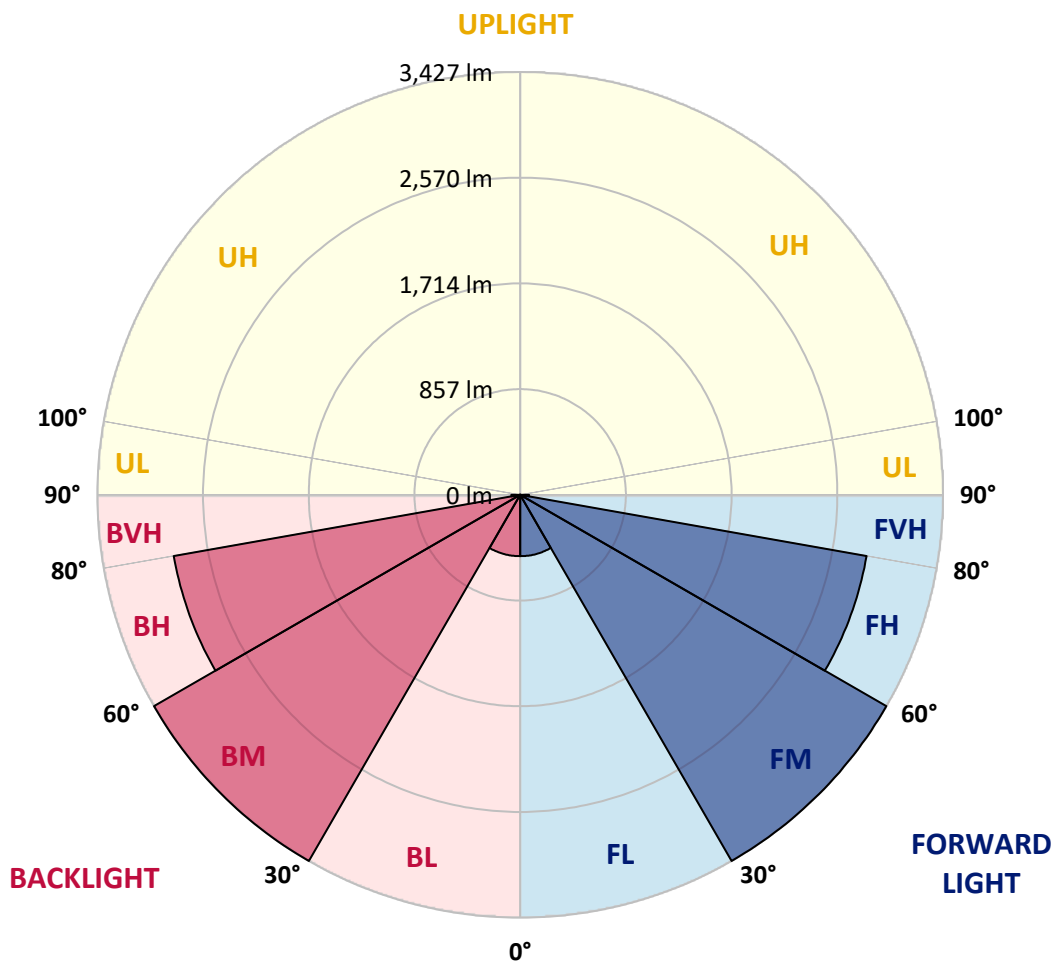
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.3	3.6			
FM (30°-60°)	3427.2	25.0			
FH (60°-80°)	2851.3	20.8			G2/5000
FVH (80°-90°)	71.9	0.5			G1/100
BL (0°-30°)	497.3	3.6	B1/500		
BM (30°-60°)	3427.2	25.0	B3/5000		
BH (60°-80°)	2851.3	20.8	B4/5000		G2/5000
BVH (80°-90°)	71.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	909.1	909.1	909.1	909.1	909.1	909.1	909.1	909.1	909.1	909.1	909.1
2.5°	914.8	917.6	916.8	915.5	915.5	915.5	914.8	912.7	912.0	913.3	914.8
5°	936.0	936.0	936.0	936.0	934.6	934.6	933.2	931.7	932.5	931.0	930.4
7.5°	968.6	966.4	966.5	965.8	965.8	964.3	962.2	959.4	960.1	959.4	958.7
10°	1006.8	1007.4	1005.4	1007.5	1003.9	1003.4	1000.4	999.1	998.3	996.2	996.2
12.5°	1052.8	1050.7	1050.8	1049.3	1047.9	1046.5	1042.2	1041.5	1038.7	1037.2	1035.2
15°	1096.0	1095.4	1092.5	1089.7	1088.9	1087.5	1082.6	1079.7	1079.0	1075.5	1072.7
17.5°	1139.2	1137.9	1134.3	1132.8	1130.1	1127.9	1123.6	1119.4	1117.2	1115.8	1112.4
20°	1185.2	1183.8	1180.3	1177.5	1174.0	1171.1	1164.7	1161.1	1159.1	1156.9	1154.1
22.5°	1242.6	1239.7	1234.1	1229.1	1221.3	1218.5	1210.1	1205.0	1201.5	1198.7	1197.2
25°	1304.9	1305.6	1297.8	1291.4	1282.2	1274.5	1263.8	1258.1	1254.6	1251.7	1251.1
27.5°	1382.7	1383.5	1376.4	1367.2	1353.0	1344.6	1330.4	1323.4	1321.2	1318.3	1317.6
30°	1506.0	1499.5	1487.6	1472.8	1459.9	1441.5	1421.0	1414.0	1406.9	1404.8	1404.7
32.5°	1732.5	1728.9	1719.1	1682.2	1665.3	1627.0	1590.9	1570.4	1547.0	1535.7	1528.6
35°	1891.2	1889.7	1881.9	1869.2	1858.6	1850.8	1829.6	1826.1	1821.8	1821.8	1827.5
37.5°	2008.0	1999.5	1998.1	2000.2	1997.4	1998.7	2015.8	2039.1	2059.0	2068.8	2067.5
40°	2180.8	2168.8	2175.7	2170.8	2164.5	2163.0	2168.8	2177.9	2187.1	2187.1	2184.9
42.5°	2406.6	2412.3	2415.1	2394.6	2381.0	2377.5	2391.0	2388.2	2397.3	2393.9	2384.6
45°	2742.2	2738.6	2733.7	2708.9	2687.6	2670.7	2674.2	2669.2	2670.0	2664.3	2657.2
47.5°	3080.6	3092.7	3072.2	3060.1	3036.0	3024.0	3034.0	3025.4	3041.7	3011.9	2997.8
50°	3409.1	3417.7	3410.6	3393.5	3393.5	3410.6	3422.6	3438.2	3460.9	3426.8	3375.8
52.5°	3678.2	3685.2	3695.8	3710.1	3744.8	3780.9	3831.8	3886.3	3929.5	3923.2	3865.1
55°	3842.4	3851.0	3868.7	3917.5	3979.7	4074.6	4190.2	4316.9	4416.0	4464.1	4421.6
57.5°	3897.7	3904.0	3952.2	4011.0	4107.9	4248.9	4442.2	4661.0	4851.4	4972.5	4953.3
60°	3885.0	3885.0	3933.8	4014.5	4150.4	4337.3	4610.7	4913.7	5205.4	5386.6	5359.8
62.5°	3751.1	3758.2	3828.4	3925.3	4089.5	4313.3	4639.0	5026.3	5375.4	5600.5	5578.5
65°	3458.1	3462.9	3538.8	3654.2	3837.5	4102.4	4458.4	4887.5	5287.6	5504.2	5463.1
67.5°	2984.3	2989.2	3050.9	3181.1	3375.2	3652.0	4036.5	4508.7	4900.3	5071.7	4948.4
70°	2374.0	2388.2	2427.7	2566.0	2713.1	2984.3	3338.3	3810.6	4180.2	4342.4	4206.4
72.5°	1617.9	1654.0	1702.1	1824.6	1965.4	2190.6	2472.5	2870.3	3167.1	3354.6	3233.5
75°	911.3	962.2	977.1	1069.8	1186.0	1363.7	1569.7	1855.1	2154.5	2306.8	2160.9
77.5°	393.7	435.4	453.9	497.0	587.6	662.1	787.4	979.9	1211.4	1318.3	1143.4
80°	194.0	203.9	211.7	225.1	250.6	274.8	334.1	418.4	513.3	537.4	427.7
82.5°	150.1	157.2	170.7	181.2	187.6	194.0	199.6	211.0	220.2	225.1	212.5
85°	105.5	114.7	129.6	141.6	148.7	153.7	158.6	162.1	153.7	140.2	147.3
87.5°	27.6	36.1	50.2	54.5	61.6	65.1	63.7	65.9	59.4	43.2	48.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	909.1	909.1	909.1	909.1	909.1	909.1	909.1	909.1
2.5°	914.1	913.3	914.1	914.1	914.1	913.3	913.3	913.4
5°	930.3	930.4	931.1	929.7	929.7	930.3	929.7	928.9
7.5°	958.0	957.2	957.2	956.5	957.3	956.5	956.5	955.8
10°	994.8	993.3	994.1	992.0	991.9	991.3	991.3	991.3
12.5°	1034.4	1032.3	1033.0	1030.9	1027.4	1028.1	1028.8	1028.1
15°	1072.7	1070.5	1068.5	1067.1	1064.8	1065.6	1065.5	1064.8
17.5°	1111.5	1107.4	1106.6	1104.6	1103.8	1103.8	1103.8	1104.6
20°	1152.0	1149.1	1148.5	1146.2	1145.6	1147.7	1148.5	1147.0
22.5°	1195.2	1193.8	1195.2	1193.7	1195.9	1197.2	1198.0	1196.6
25°	1249.7	1248.2	1250.4	1255.4	1258.1	1259.5	1263.1	1261.7
27.5°	1319.7	1318.3	1323.3	1330.4	1334.7	1341.7	1345.2	1346.7
30°	1410.4	1416.8	1419.6	1433.8	1436.6	1448.0	1447.9	1452.8
32.5°	1542.1	1554.1	1575.4	1597.3	1627.7	1649.7	1649.7	1661.0
35°	1830.9	1835.9	1852.2	1855.8	1862.2	1869.2	1862.2	1867.7
37.5°	2052.6	2030.6	2015.0	1993.1	1979.6	1979.6	1981.0	1979.6
40°	2165.8	2157.3	2150.3	2131.9	2129.0	2128.4	2128.4	2131.2
42.5°	2368.4	2347.8	2336.5	2320.9	2315.9	2314.6	2313.9	2315.3
45°	2631.7	2598.5	2568.0	2552.4	2539.0	2526.2	2530.4	2530.5
47.5°	2938.3	2886.7	2837.0	2810.2	2786.8	2776.2	2769.1	2767.0
50°	3311.5	3239.3	3175.5	3125.2	3091.2	3090.5	3094.2	3071.5
52.5°	3768.9	3654.8	3575.5	3507.6	3475.7	3472.2	3460.9	3448.1
55°	4275.7	4140.5	4009.5	3936.7	3894.9	3872.2	3858.8	3837.5
57.5°	4798.4	4616.3	4427.9	4311.2	4237.6	4186.5	4159.7	4147.7
60°	5201.1	4952.6	4704.2	4516.5	4394.1	4318.3	4271.6	4252.4
62.5°	5359.8	5022.7	4704.2	4457.7	4280.8	4175.9	4113.0	4085.3
65°	5170.7	4771.4	4408.9	4137.0	3939.5	3822.6	3754.0	3724.2
67.5°	4642.5	4290.0	3895.7	3625.1	3422.0	3306.4	3232.2	3210.2
70°	3892.0	3531.6	3155.0	2913.5	2732.3	2638.2	2560.9	2551.7
72.5°	2924.9	2614.0	2291.2	2091.5	1945.7	1789.9	1750.2	1770.1
75°	1874.8	1583.8	1296.4	1116.6	983.4	834.8	777.4	791.5
77.5°	887.8	687.4	496.4	383.7	322.1	275.4	263.4	256.3
80°	329.3	267.0	235.7	223.8	215.3	207.4	201.8	195.4
82.5°	213.1	208.2	201.9	199.6	193.3	183.3	165.0	157.2
85°	159.3	159.3	150.8	151.4	146.6	133.8	116.8	107.6
87.5°	46.7	41.8	38.2	35.3	34.6	31.1	22.7	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)