

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: McGRAW-EDISON

Report Number: P450386

Luminaire Tested: **GALN-SA1A-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3646 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

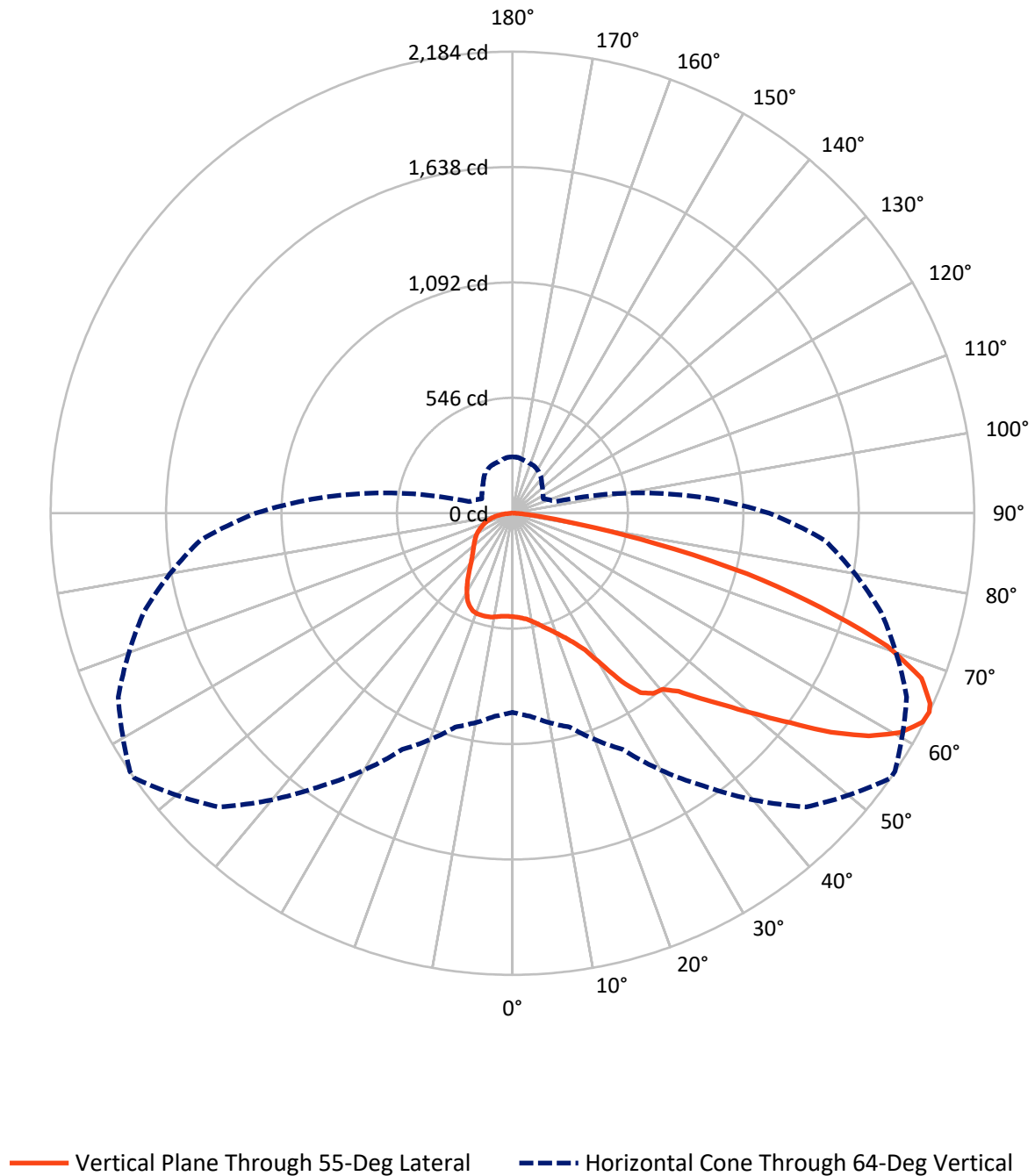
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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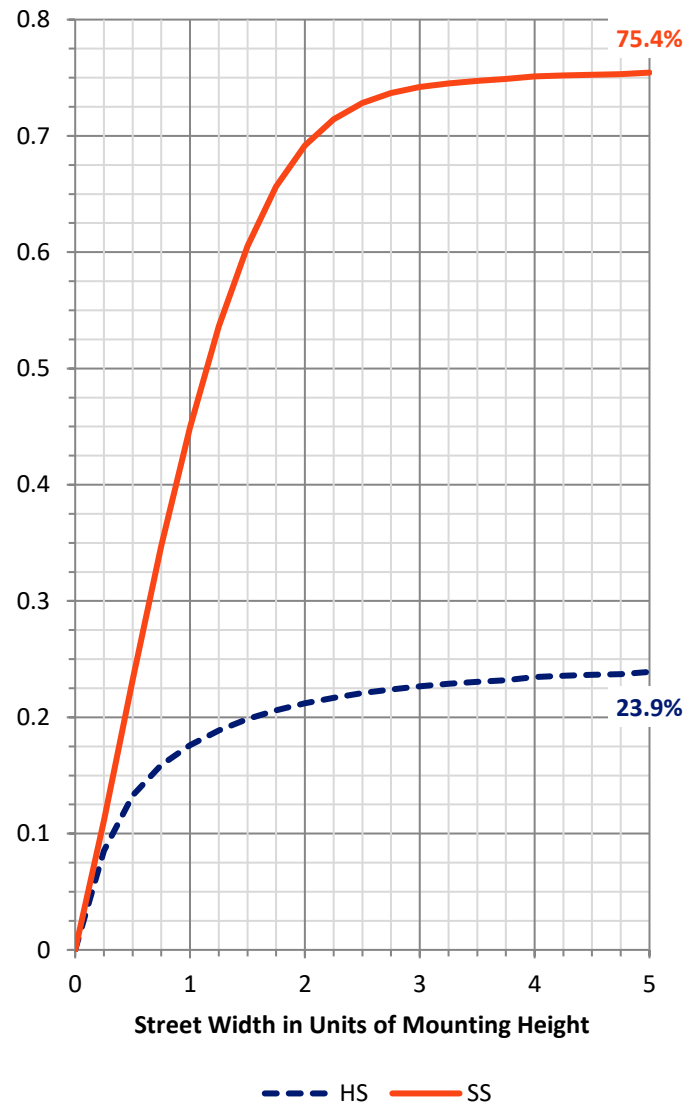
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	885.7	0.0	885.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	2760.3	0.0	2760.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	3646.0	0.0	3646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	1.3
10°-20°	150.1	4.1
20°-30°	267.3	7.3
30°-40°	411.3	11.3
40°-50°	583.0	16.0
50°-60°	843.9	23.1
60°-70°	873.3	24.0
70°-80°	409.0	11.2
80°-90°	60.5	1.7
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°	3646.0	100.0
0°-180°	3646.0	100.0

Coefficient of Utilization



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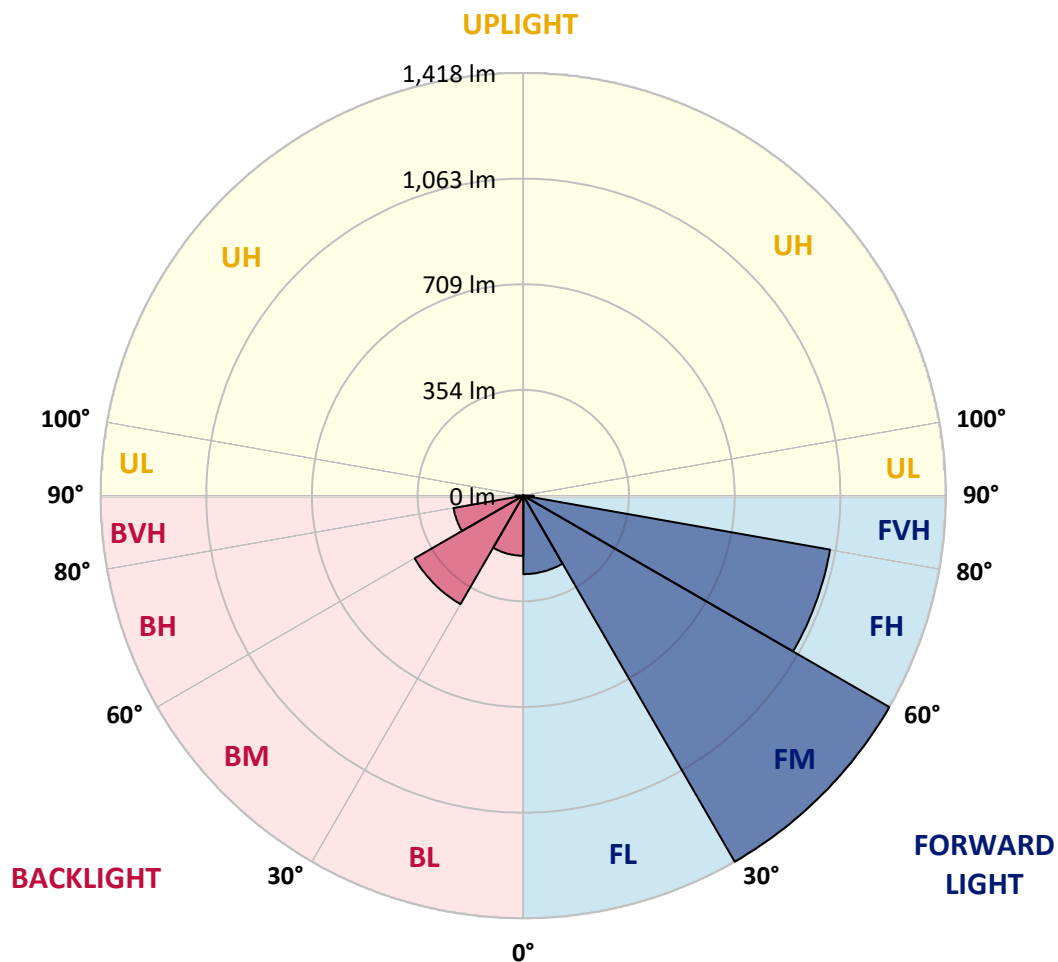
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.3	7.2			
FM	(30°-60°)	1417.7	38.9			
FH	(60°-80°)	1044.7	28.7			G1/1800
FVH	(80°-90°)	34.7	1.0			G1/100
BL	(0°-30°)	201.7	5.5	B1/500		
BM	(30°-60°)	420.5	11.5	B1/1000		
BH	(60°-80°)	237.6	6.5	B1/500		G1/500
BVH	(80°-90°)	25.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2
2.5°	494.7	494.5	495.1	494.5	494.9	493.5	492.8	493.2	492.6	491.6	489.8
5°	500.8	500.6	500.8	500.0	500.4	499.5	498.1	498.5	497.5	495.3	492.6
7.5°	511.1	510.3	510.3	510.1	509.3	508.1	507.1	506.7	505.6	502.8	498.7
10°	524.5	524.5	524.7	523.1	524.1	521.9	520.9	520.7	517.2	513.6	507.9
12.5°	542.2	543.2	542.6	541.8	541.4	540.6	537.1	538.0	534.1	527.8	520.9
15°	564.2	565.8	564.8	564.4	563.4	560.3	558.9	558.3	553.2	544.1	534.9
17.5°	593.2	591.2	590.4	589.4	585.1	582.9	580.4	580.0	575.6	564.8	550.6
20°	618.6	621.5	619.9	618.8	614.6	610.3	608.5	607.9	604.0	592.2	569.5
22.5°	648.9	649.5	650.1	647.7	645.7	642.4	639.2	638.2	636.7	624.5	596.7
25°	681.2	683.7	681.6	679.2	676.8	676.6	679.6	679.2	678.6	666.8	632.9
27.5°	733.9	736.1	736.7	734.1	724.7	725.5	732.5	734.7	744.0	724.5	679.4
30°	763.5	765.8	770.9	780.8	795.7	808.7	825.3	830.4	839.4	802.6	734.7
32.5°	781.8	782.7	791.8	810.3	854.8	903.4	948.7	950.5	956.2	904.6	785.3
35°	810.7	811.3	818.6	838.9	891.2	972.1	1042.2	1044.4	1039.7	936.3	808.9
37.5°	846.3	847.9	852.6	869.4	931.8	1029.6	1081.0	1079.4	1037.9	961.5	850.5
40°	898.1	898.1	892.6	915.4	974.7	1062.5	1094.6	1091.8	1080.8	1034.5	913.9
42.5°	943.8	943.0	956.0	971.5	1028.4	1113.3	1151.7	1156.4	1174.5	1126.1	986.1
45°	1003.4	1007.0	1014.3	1042.4	1119.6	1200.1	1249.7	1254.2	1279.8	1234.0	1070.4
47.5°	1063.5	1064.7	1087.7	1125.1	1232.6	1317.8	1358.4	1365.7	1389.1	1360.2	1161.3
50°	1106.2	1117.8	1154.6	1213.5	1349.1	1461.2	1493.0	1501.7	1542.9	1497.6	1267.2
52.5°	1151.3	1162.7	1207.6	1297.4	1482.8	1608.0	1647.0	1652.9	1695.8	1636.6	1375.5
55°	1189.9	1200.5	1251.5	1371.8	1589.3	1757.8	1828.5	1821.6	1842.1	1743.7	1459.0
57.5°	1196.2	1204.8	1269.0	1419.4	1669.4	1886.2	1987.6	1991.7	1967.9	1823.8	1527.9
60°	1147.5	1164.9	1238.7	1414.3	1705.3	1975.6	2106.3	2109.2	2041.7	1864.9	1555.3
62.5°	1061.1	1059.3	1148.5	1332.6	1654.9	1996.0	2176.2	2173.2	2070.5	1845.2	1528.7
64°	941.8	963.7	1047.1	1232.2	1573.6	1964.7	2183.5	2181.9	2056.7	1804.1	1483.4
65°	869.0	867.8	950.1	1150.1	1492.8	1917.5	2170.5	2168.3	2027.9	1767.3	1448.2
67.5°	627.4	630.2	711.5	887.5	1213.5	1733.2	2085.8	2077.5	1914.1	1645.4	1314.5
70°	380.0	381.7	445.5	588.8	871.1	1401.1	1880.1	1880.5	1739.9	1463.3	1118.8
72.5°	200.2	204.5	230.1	334.3	529.0	983.0	1525.3	1561.4	1493.8	1248.9	883.9
75°	111.4	112.0	130.1	164.8	269.9	550.2	1146.4	1156.8	1182.6	1005.2	653.6
77.5°	85.0	86.2	91.9	106.5	146.9	255.1	693.8	745.9	833.5	708.7	372.9
80°	68.9	70.1	75.0	83.7	97.8	120.9	322.3	350.4	446.1	314.6	145.5
82.5°	53.7	52.8	59.1	64.8	71.1	71.5	132.3	146.3	181.7	135.4	63.0
85°	39.8	39.8	44.9	43.7	45.9	41.9	58.3	64.4	72.8	57.5	29.3
87.5°	15.9	17.5	29.5	26.4	20.5	16.5	21.5	22.8	25.2	22.6	12.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2
2.5°	490.0	490.6	489.2	488.2	487.8	487.2	486.5	486.7	487.6	488.4	488.2
5°	492.4	492.6	490.2	489.0	488.2	487.4	487.4	488.0	489.6	490.8	490.8
7.5°	498.5	498.5	495.1	492.8	491.6	490.2	489.8	490.0	491.2	492.8	493.0
10°	508.1	507.3	502.8	499.3	497.1	493.7	490.6	489.0	489.6	490.6	490.6
12.5°	519.7	517.4	511.7	507.1	501.6	495.1	488.8	485.5	485.3	486.3	485.9
15°	532.1	529.6	521.7	513.2	503.6	494.1	486.5	481.9	478.2	477.2	479.4
17.5°	546.5	541.4	530.4	518.7	504.4	492.0	480.2	470.7	464.2	462.4	463.0
20°	564.0	557.3	542.4	523.9	503.8	484.7	466.4	453.6	443.0	439.8	440.2
22.5°	588.2	576.6	554.8	526.6	498.7	470.9	445.5	428.8	416.0	410.9	414.0
25°	615.6	603.0	566.6	526.0	485.5	448.7	420.7	398.9	387.4	379.8	381.5
27.5°	653.4	631.0	579.2	520.5	466.6	421.7	389.2	368.7	358.1	354.2	356.1
30°	701.8	667.4	592.8	505.6	436.7	387.6	357.5	344.1	337.8	332.9	334.5
32.5°	736.7	693.0	595.9	480.6	404.4	356.5	335.9	326.0	319.1	314.4	315.4
35°	761.7	714.8	594.5	450.0	370.7	330.9	318.9	310.7	299.6	289.4	287.6
37.5°	795.3	742.0	584.1	416.4	337.4	313.6	305.1	290.0	274.0	260.3	259.7
40°	846.7	773.9	561.9	377.0	308.9	300.8	290.4	270.9	253.6	242.7	241.8
42.5°	899.7	803.4	531.9	335.5	285.5	287.4	274.8	255.5	244.9	237.8	237.0
45°	964.5	835.3	499.3	299.6	268.3	274.8	261.2	250.0	243.7	239.0	237.8
47.5°	1034.7	868.0	462.8	267.3	253.6	263.2	255.5	250.4	246.9	243.7	242.3
50°	1110.3	904.6	428.4	241.2	240.4	251.2	254.9	253.0	251.0	250.0	248.8
52.5°	1193.2	942.0	399.6	222.9	228.8	242.7	255.1	256.5	256.5	255.9	255.1
55°	1249.3	968.0	370.3	208.1	217.1	235.8	254.7	260.1	262.2	261.4	260.5
57.5°	1290.7	982.2	333.5	195.3	207.1	229.0	252.4	260.5	262.6	263.6	263.2
60°	1299.3	969.0	285.3	181.9	196.3	219.3	244.3	254.4	257.1	263.4	264.0
62.5°	1260.9	928.4	237.4	168.7	183.1	204.5	233.3	247.5	252.8	262.6	263.6
64°	1213.7	882.8	210.8	160.4	174.6	196.1	227.8	245.7	252.6	265.6	266.4
65°	1179.2	849.7	194.1	155.1	169.1	190.6	224.8	246.3	254.4	270.3	271.5
67.5°	1051.9	735.7	160.6	142.7	156.1	181.3	225.4	251.4	254.0	272.1	271.9
70°	870.4	585.7	134.5	131.3	143.5	173.8	222.9	243.3	243.5	255.5	252.6
72.5°	651.8	432.9	116.7	119.5	129.5	155.9	210.5	232.3	228.8	230.5	227.6
75°	447.7	286.4	100.4	106.9	114.8	137.8	193.1	211.0	205.5	203.4	201.4
77.5°	239.0	158.3	83.5	94.5	99.8	119.1	168.5	185.8	180.1	172.1	169.5
80°	96.7	74.6	67.3	78.2	81.3	95.9	140.2	151.0	146.7	132.9	128.4
82.5°	48.6	44.7	52.8	61.6	61.8	68.5	104.3	114.4	104.9	88.0	84.1
85°	25.4	26.2	36.4	43.3	38.2	37.0	62.6	69.3	63.6	55.3	49.8
87.5°	9.1	10.6	19.1	18.9	13.4	7.1	13.8	6.7	3.7	2.2	2.8
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)