

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: P530919

Luminaire Tested: **GALN-SA6A-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14252 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

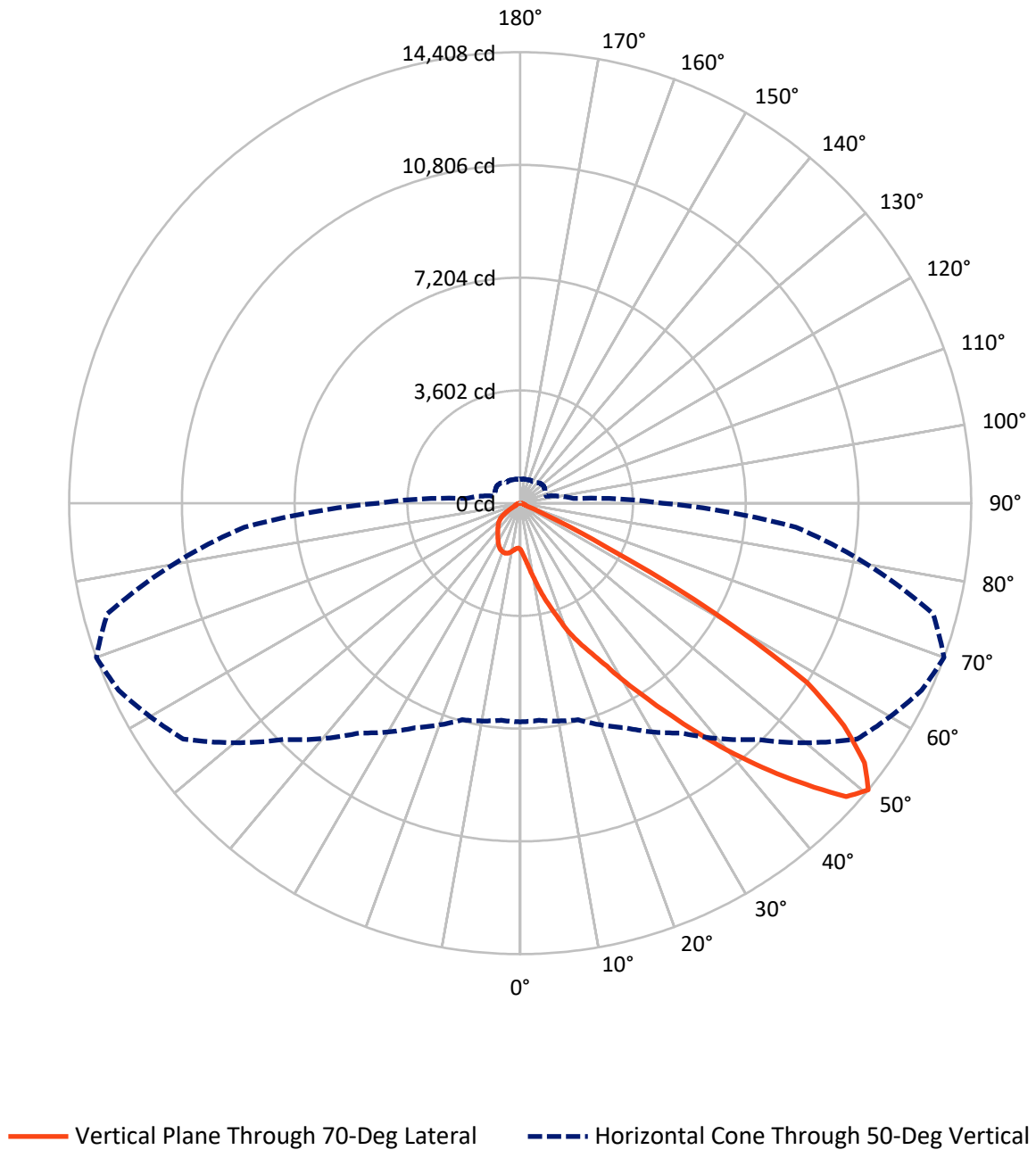
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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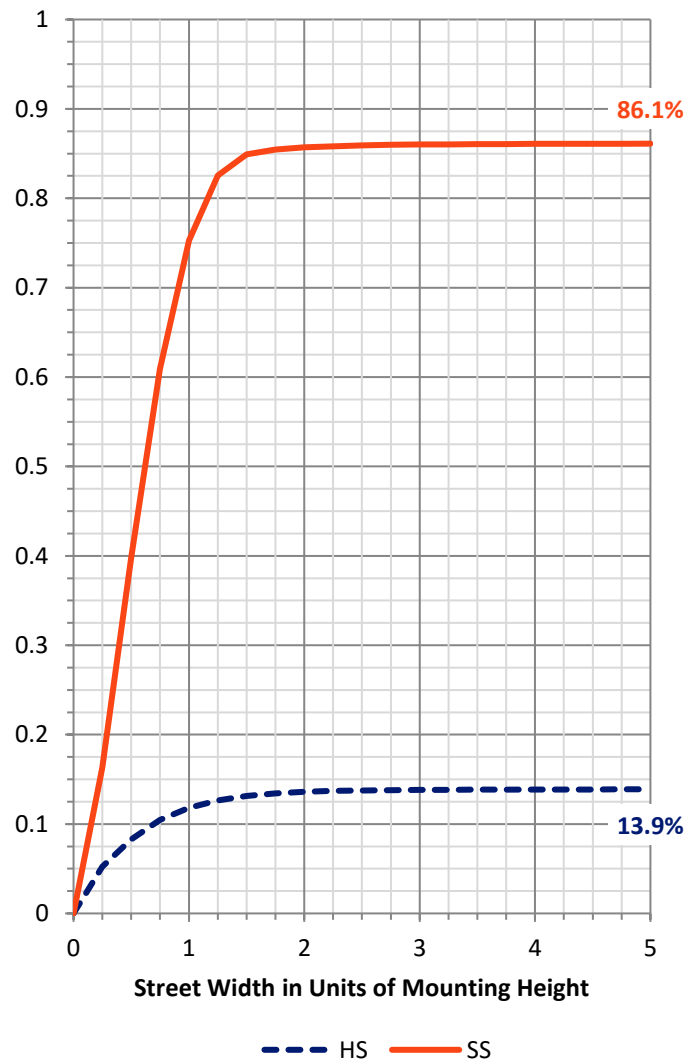
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1990.4	0.0	1990.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12261.6	0.0	12261.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	14252.0	0.0	14252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	1.3
10°-20°	830.4	5.8
20°-30°	1742.0	12.2
30°-40°	3002.6	21.1
40°-50°	4388.2	30.8
50°-60°	3417.7	24.0
60°-70°	579.1	4.1
70°-80°	79.5	0.6
80°-90°	20.6	0.1
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°	14252.0	100.0
0°-180°	14252.0	100.0

Coefficient of Utilization



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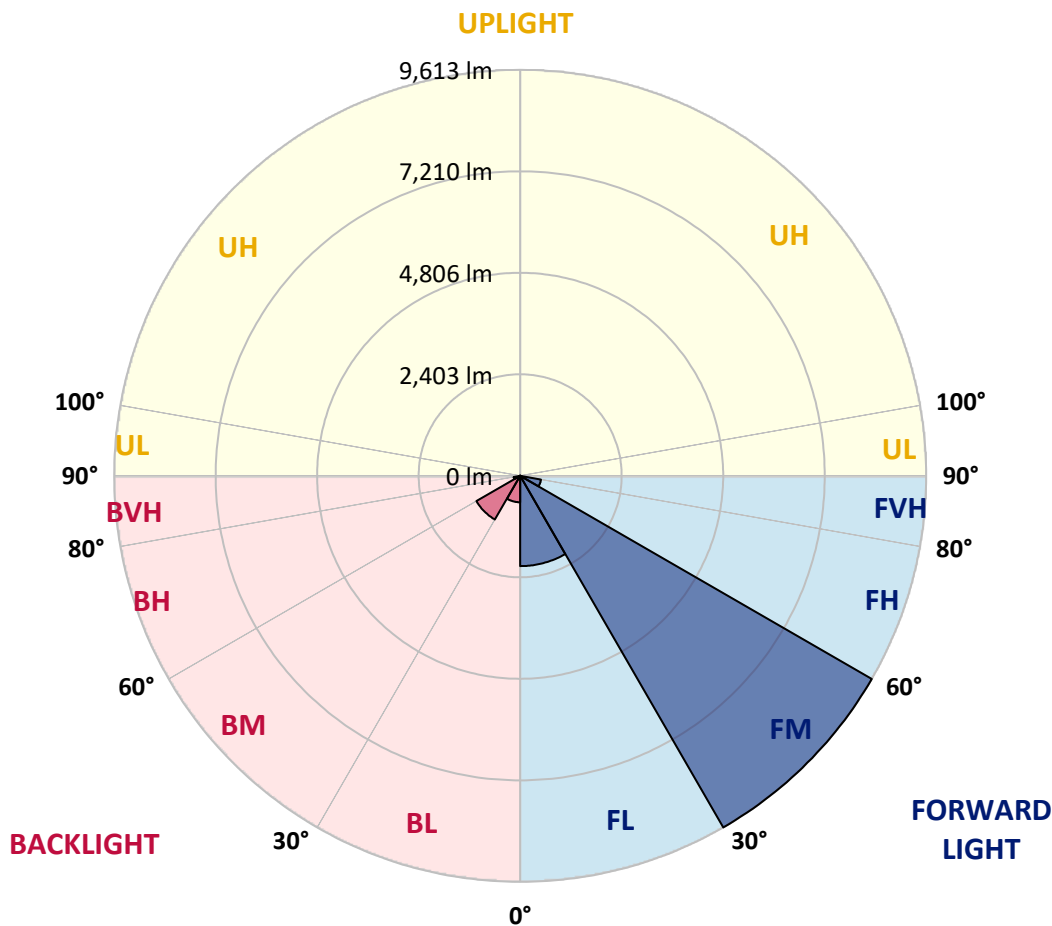
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2138.0	15.0			
FM	(30°-60°)	9612.7	67.4			
FH	(60°-80°)	501.4	3.5			G0/660
FVH	(80°-90°)	9.5	0.1			G0/10
BL	(0°-30°)	626.3	4.4	B2/1000		
BM	(30°-60°)	1195.8	8.4	B2/2500		
BH	(60°-80°)	157.2	1.1	B1/500		G1/500
BVH	(80°-90°)	11.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2
2.5°	1933.2	1919.1	1888.6	1832.4	1809.0	1752.7	1719.9	1656.7	1616.8	1572.3	1523.1
5°	2722.8	2650.2	2605.7	2542.4	2357.3	2242.5	2052.7	1891.0	1816.0	1734.0	1621.5
7.5°	3538.3	3491.4	3430.5	3294.6	3168.0	2929.0	2603.3	2247.1	2094.8	1954.2	1731.6
10°	4213.1	4081.9	4074.9	3974.1	3835.8	3550.0	3158.7	2715.8	2444.0	2237.8	1888.6
12.5°	4684.1	4564.6	4618.5	4606.8	4477.9	4215.4	3763.2	3177.4	2893.9	2572.9	2050.3
15°	5112.9	5063.7	5047.3	5033.2	4981.7	4787.2	4381.8	3739.8	3329.7	2943.1	2233.1
17.5°	5532.3	5405.8	5466.7	5478.4	5473.8	5298.0	4918.4	4274.0	3791.3	3334.4	2425.2
20°	5904.9	5916.6	5834.6	5818.2	5804.1	5797.1	5426.9	4803.6	4358.4	3744.5	2676.0
22.5°	6382.9	6300.9	6373.5	6326.7	6235.3	6179.1	5895.5	5272.2	4850.5	4238.9	2931.4
25°	6947.6	7013.2	6842.2	6823.4	6722.7	6528.2	6272.8	5797.1	5323.8	4698.1	3207.9
27.5°	7643.6	7528.8	7484.2	7381.1	7198.4	7116.3	6816.4	6338.4	5895.5	5180.9	3475.0
30°	8241.1	8210.6	7988.0	7866.2	7706.8	7704.5	7285.1	7071.8	6640.7	5937.7	3842.9
32.5°	8728.5	8594.9	8512.9	8428.6	8299.7	8334.8	7981.0	7868.5	7435.0	6640.7	4276.4
35°	9054.2	8958.1	8908.9	8780.0	8742.5	8899.5	8751.9	8705.1	8348.9	7629.5	4784.8
37.5°	9157.3	9187.8	9178.4	9016.7	9096.4	9520.5	9710.3	9588.4	9401.0	8672.2	5335.5
40°	9248.7	9269.8	9222.9	9412.7	9640.0	10122.7	10809.3	10607.7	10537.4	9729.0	6101.7
42.5°	9300.2	9283.8	9283.8	9611.9	9956.3	10926.4	11870.7	11737.2	11683.3	10853.8	6987.5
45°	9077.6	8918.3	9089.3	9534.5	10228.1	11322.4	12719.0	12904.1	12826.8	12191.8	8023.2
47.5°	8245.8	8344.2	8440.3	9035.4	9897.7	11200.6	13239.2	13869.5	14012.4	13316.5	8702.7
50°	6987.5	6966.4	7165.6	7915.4	8962.8	10675.7	13138.4	14148.3	14408.4	13653.9	8845.6
52.5°	5082.4	5237.1	5452.7	6197.8	7439.7	9316.6	11837.9	13429.0	13775.8	13239.2	8751.9
55°	2959.5	2788.4	3273.5	3903.8	5075.4	7027.3	10007.9	11903.5	12545.6	12484.7	8278.6
57.5°	1185.7	1148.2	1314.5	1771.5	2647.8	4356.0	7278.0	9780.6	10809.3	11434.9	7275.7
60°	520.2	508.5	597.5	721.7	1082.6	2008.1	3981.1	6083.0	7156.2	7990.4	5007.5
62.5°	374.9	370.2	414.7	459.3	571.7	874.0	1673.1	2451.0	3055.6	3690.6	2242.5
65°	302.3	314.0	344.5	367.9	421.8	485.0	590.5	681.9	836.5	867.0	494.4
67.5°	246.0	255.4	283.5	309.3	318.7	262.4	271.8	239.0	239.0	213.2	171.1
70°	180.4	182.8	215.6	246.0	196.8	105.4	185.1	185.1	166.4	159.3	145.3
72.5°	133.6	135.9	161.7	152.3	77.3	65.6	135.9	150.0	135.9	128.9	117.2
75°	98.4	100.8	84.4	35.1	32.8	42.2	79.7	103.1	98.4	96.1	89.0
77.5°	18.7	14.1	11.7	16.4	23.4	35.1	51.6	63.3	65.6	70.3	65.6
80°	2.3	2.3	7.0	14.1	25.8	37.5	53.9	60.9	63.3	65.6	60.9
82.5°	0.0	2.3	7.0	14.1	25.8	35.1	46.9	53.9	58.6	60.9	58.6
85°	0.0	2.3	4.7	11.7	21.1	25.8	23.4	16.4	14.1	16.4	11.7
87.5°	0.0	0.0	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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°	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2	1476.2
2.5°	1495.0	1485.6	1452.8	1417.6	1387.2	1401.2	1387.2	1375.5	1380.2	1375.5	1370.8
5°	1577.0	1534.8	1464.5	1434.0	1408.3	1405.9	1398.9	1396.6	1398.9	1398.9	1377.8
7.5°	1654.3	1586.4	1511.4	1478.6	1448.1	1450.5	1434.0	1434.0	1431.7	1420.0	1415.3
10°	1771.5	1680.1	1584.0	1525.4	1487.9	1480.9	1464.5	1448.1	1448.1	1448.1	1424.7
12.5°	1900.3	1785.5	1654.3	1586.4	1541.8	1506.7	1480.9	1476.2	1450.5	1445.8	1434.0
15°	2012.8	1867.5	1701.2	1607.4	1551.2	1504.3	1464.5	1438.7	1427.0	1420.0	1410.6
17.5°	2123.0	1937.8	1727.0	1607.4	1546.5	1492.6	1450.5	1427.0	1398.9	1403.6	1384.8
20°	2270.6	2012.8	1734.0	1577.0	1502.0	1450.5	1394.2	1382.5	1366.1	1352.0	1356.7
22.5°	2413.5	2066.7	1712.9	1539.5	1431.7	1370.8	1342.7	1328.6	1321.6	1309.9	1293.5
25°	2542.4	2125.3	1680.1	1471.5	1356.7	1312.2	1286.4	1284.1	1267.7	1267.7	1237.2
27.5°	2673.6	2146.4	1623.8	1391.9	1291.1	1265.3	1253.6	1248.9	1241.9	1225.5	1204.4
30°	2823.6	2153.4	1541.8	1309.9	1232.5	1204.4	1220.8	1232.5	1202.1	1171.6	1181.0
32.5°	2947.8	2137.0	1443.4	1232.5	1190.4	1176.3	1209.1	1220.8	1185.7	1152.9	1136.5
35°	3097.7	2097.2	1347.3	1171.6	1148.2	1176.3	1204.4	1204.4	1134.1	1094.3	1084.9
37.5°	3325.0	2052.7	1258.3	1120.1	1103.7	1162.2	1199.7	1174.0	1063.8	1014.6	1002.9
40°	3568.7	2024.5	1171.6	1068.5	1080.2	1138.8	1159.9	1080.2	967.7	937.3	927.9
42.5°	3922.5	1968.3	1094.3	1024.0	1059.1	1106.0	1106.0	963.1	920.9	904.5	902.1
45°	4363.1	1928.5	1026.3	986.5	1028.7	1040.4	1002.9	902.1	871.7	867.0	869.3
47.5°	4578.6	1851.1	956.0	942.0	972.4	974.8	876.4	852.9	827.2	820.1	815.4
50°	4545.8	1712.9	864.6	883.4	925.6	902.1	799.0	803.7	780.3	777.9	766.2
52.5°	4316.2	1495.0	773.3	817.8	864.6	796.7	735.8	731.1	731.1	700.6	688.9
55°	3826.5	1204.4	663.1	719.4	775.6	670.2	653.8	649.1	637.4	609.2	602.2
57.5°	3029.8	883.4	499.1	560.0	658.4	569.4	567.1	546.0	515.5	494.4	494.4
60°	1801.9	508.5	314.0	342.1	435.8	461.6	513.2	503.8	452.2	419.4	410.1
62.5°	822.5	262.4	199.2	203.9	234.3	299.9	403.0	466.3	393.7	337.4	332.7
65°	276.5	194.5	164.0	157.0	161.7	180.4	241.4	330.4	314.0	260.1	250.7
67.5°	168.7	173.4	154.7	142.9	142.9	140.6	138.2	150.0	185.1	180.4	182.8
70°	145.3	159.3	142.9	128.9	124.2	117.2	98.4	82.0	70.3	82.0	86.7
72.5°	117.2	126.5	121.8	110.1	98.4	89.0	70.3	53.9	39.8	35.1	35.1
75°	86.7	93.7	98.4	84.4	75.0	63.3	51.6	35.1	21.1	14.1	14.1
77.5°	63.3	70.3	72.6	65.6	56.2	44.5	32.8	23.4	11.7	4.7	4.7
80°	53.9	63.3	70.3	65.6	58.6	42.2	30.5	16.4	9.4	2.3	2.3
82.5°	51.6	63.3	70.3	63.3	56.2	39.8	30.5	18.7	7.0	2.3	2.3
85°	11.7	16.4	21.1	25.8	30.5	30.5	23.4	14.1	7.0	2.3	2.3
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	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

(END OF REPORT)