

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: P646861

Luminaire Tested: **GALN-SA3C-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

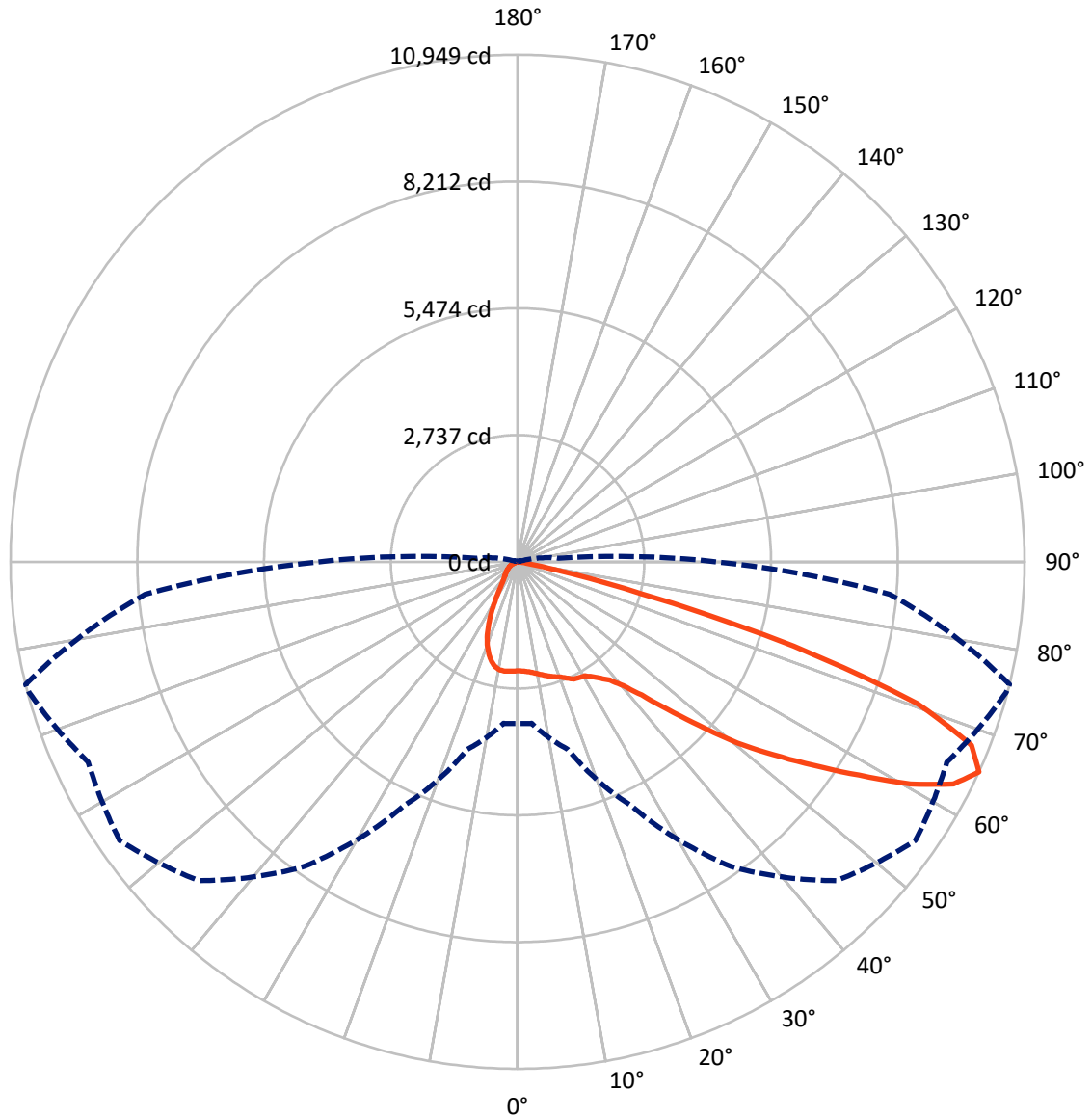
Lumens per Lamp: N/A
Luminaire Lumens: 12866.3 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160
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



REPORT NUMBER: P646861
CATALOG NUMBER: GALN-SA3C-835-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P646861
 CATALOG NUMBER: GALN-SA3C-835-U-T3R-HSS

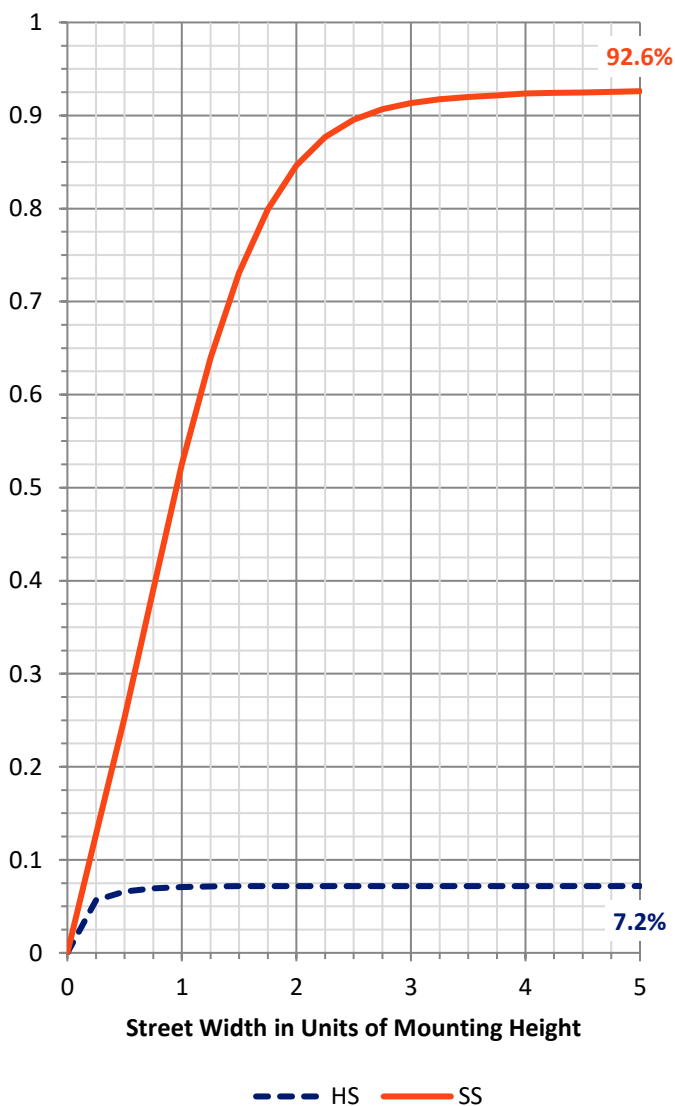
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	929.2	0.0	929.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11937.1	0.0	11937.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	12866.3	0.0	12866.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.5
10°-20°	431.7	3.4
20°-30°	695.6	5.4
30°-40°	1209.6	9.4
40°-50°	1998.7	15.5
50°-60°	3087.6	24.0
60°-70°	3770.4	29.3
70°-80°	1431.0	11.1
80°-90°	47.7	0.4
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°	12866.3	100.0
0°-180°	12866.3	100.0

Coefficient of Utilization



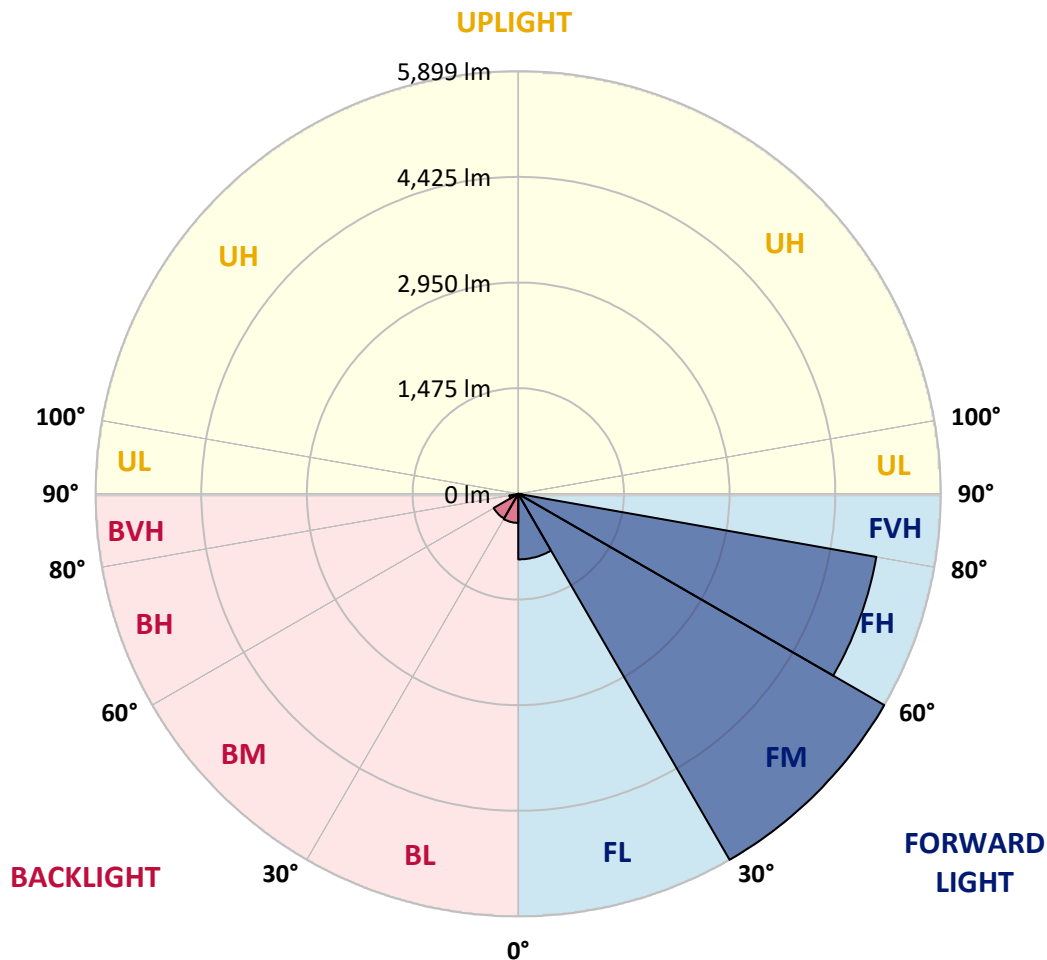
REPORT NUMBER: P646861
 CATALOG NUMBER: GALN-SA3C-835-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.3	7.1			
FM (30°-60°)	5899.4	45.9			
FH (60°-80°)	5075.3	39.4			G3/7500
FVH (80°-90°)	47.1	0.4			G1/100
BL (0°-30°)	405.9	3.2	B1/500		
BM (30°-60°)	396.5	3.1	B1/1000		
BH (60°-80°)	126.1	1.0	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





REPORT NUMBER: P646861

CATALOG NUMBER: GALN-SA3C-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6
2.5°	2249.2	2250.1	2255.5	2269.1	2290.0	2307.3	2321.8	2345.5	2361.8	2363.6	2369.1
5°	2093.8	2082.9	2093.8	2129.3	2161.1	2209.2	2268.3	2327.3	2380.0	2383.6	2409.1
7.5°	1919.4	1928.5	1945.8	1982.1	2042.1	2115.7	2201.0	2306.4	2406.3	2415.4	2465.4
10°	1742.3	1762.3	1790.4	1845.8	1929.4	2024.8	2141.1	2291.8	2448.1	2460.8	2547.1
12.5°	1578.8	1587.8	1622.4	1696.9	1800.4	1934.9	2095.7	2283.7	2494.5	2509.9	2634.3
15°	1453.4	1465.2	1495.2	1562.5	1677.8	1850.4	2058.4	2281.0	2539.9	2561.7	2721.6
17.5°	1429.8	1437.1	1449.8	1495.2	1596.1	1783.2	2024.8	2280.1	2583.5	2609.8	2802.4
20°	1527.0	1520.7	1507.9	1503.4	1558.8	1731.4	2000.3	2287.3	2625.2	2655.2	2887.8
22.5°	1770.4	1778.7	1704.1	1616.0	1597.9	1723.2	1996.6	2321.8	2691.6	2727.0	2983.2
25°	2287.3	2224.7	2108.4	1897.6	1738.7	1773.2	2037.5	2403.6	2768.8	2807.8	3069.4
27.5°	2858.7	2839.6	2658.8	2311.9	2015.8	1878.6	2110.2	2466.3	2794.2	2834.2	3118.5
30°	3420.1	3442.9	3235.7	2852.4	2418.1	2073.9	2178.3	2489.9	2816.9	2858.7	3181.2
32.5°	3940.6	3967.9	3786.2	3406.4	2892.3	2411.8	2295.5	2581.6	2912.3	2955.0	3285.6
35°	4350.3	4353.9	4216.8	3914.3	3410.1	2822.4	2549.0	2742.5	3041.3	3091.3	3396.5
37.5°	4726.3	4720.9	4560.1	4299.5	3841.6	3230.3	2867.8	2927.7	3188.5	3240.2	3556.4
40°	5005.2	5008.9	4957.1	4711.9	4244.0	3607.2	3120.3	3101.2	3435.6	3516.4	3788.9
42.5°	5191.4	5225.1	5250.5	5126.1	4750.0	4071.4	3508.2	3472.8	3864.3	3931.5	4117.7
45°	5342.3	5402.2	5529.4	5523.0	5236.0	4641.0	4040.5	3967.9	4472.0	4543.7	4536.5
47.5°	5452.2	5513.0	5723.8	5851.0	5692.9	5193.3	4710.1	4647.3	5197.9	5275.9	4998.9
50°	5508.5	5581.1	5850.0	6096.2	6049.9	5725.6	5473.1	5476.7	6074.4	6149.8	5534.9
52.5°	5376.8	5471.3	5917.3	6360.5	6450.5	6235.2	6188.0	6307.9	6854.8	6919.2	6019.0
55°	4956.2	5075.2	5825.5	6585.9	6914.7	6836.6	7000.1	7182.7	7707.7	7749.5	6515.9
57.5°	4690.0	4816.3	5554.8	6777.5	7472.5	7592.4	7851.2	7984.8	8587.9	8694.3	7086.4
60°	4465.7	4564.7	5332.3	6818.4	8039.3	8517.1	8768.7	8906.8	9674.4	9743.4	7714.1
62.5°	4092.3	4205.9	4956.2	6533.2	8324.5	9257.4	9778.9	9717.1	10514.7	10562.8	8099.3
65°	3491.9	3501.9	4193.1	5816.4	8030.2	9738.0	10488.3	10229.4	10916.2	10948.8	8069.3
67.5°	2606.2	2702.4	3225.7	4571.9	6783.0	9327.4	10718.2	10243.0	10662.7	10571.9	7428.9
70°	1678.7	1752.3	2186.5	3170.3	4890.8	7784.0	9956.0	9540.9	9358.3	9156.6	6080.8
72.5°	774.9	869.4	1299.0	1811.3	2900.5	5544.8	8082.0	7751.3	6735.8	6237.9	3865.2
75°	337.9	361.5	641.4	955.7	1359.8	2932.3	5328.6	4811.8	3042.2	2778.8	1547.0
77.5°	206.2	221.7	336.1	512.3	534.2	1117.3	2870.6	2099.3	940.2	829.4	419.7
80°	139.9	157.1	244.4	267.9	182.6	311.6	1077.3	560.5	189.9	181.7	90.0
82.5°	68.1	86.3	180.8	149.9	79.0	99.9	313.4	119.9	55.4	51.8	31.8
85°	10.0	17.2	101.7	98.1	35.4	23.6	55.4	30.0	19.1	18.2	14.6
87.5°	0.0	0.0	34.5	15.4	3.6	3.6	6.3	6.3	7.3	6.3	7.3
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: P646861

CATALOG NUMBER: GALN-SA3C-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6	2353.6
2.5°	2371.8	2376.3	2359.1	2334.6	2308.2	2281.9	2244.6	2211.0	2191.1	2202.9	2173.8
5°	2414.5	2410.9	2365.4	2291.0	2191.9	2073.0	1954.8	1854.1	1821.3	1772.2	1766.8
7.5°	2473.6	2463.6	2367.2	2196.5	1973.0	1749.5	1531.5	1387.1	1304.5	1234.5	1236.4
10°	2556.2	2527.1	2346.4	2030.2	1662.4	1325.4	1047.3	856.6	773.9	747.6	726.7
12.5°	2641.6	2585.3	2288.2	1805.9	1294.5	905.7	636.8	520.5	469.6	453.3	451.5
15°	2717.9	2628.9	2186.5	1536.1	941.1	578.6	434.2	396.0	389.7	390.6	389.7
17.5°	2793.3	2663.4	2045.7	1250.0	639.5	415.1	373.3	364.3	367.0	370.6	369.7
20°	2856.0	2670.7	1865.8	953.9	452.4	364.3	350.6	348.8	351.6	354.3	354.3
22.5°	2924.1	2676.1	1652.4	660.4	369.7	338.8	331.6	331.6	335.2	338.8	339.7
25°	2975.0	2646.1	1397.1	474.2	326.1	314.3	310.7	311.6	315.2	317.0	316.1
27.5°	2983.2	2561.7	1126.4	363.4	296.1	284.3	280.7	284.3	279.8	282.5	280.7
30°	2990.4	2454.5	852.1	306.2	268.9	250.7	245.2	239.8	236.2	231.6	230.8
32.5°	3013.1	2328.3	622.3	275.2	243.4	223.5	210.8	195.3	183.5	179.9	178.9
35°	3023.2	2176.5	457.0	250.7	220.7	199.0	176.3	154.4	137.2	130.8	135.4
37.5°	3061.3	2029.4	354.3	232.6	200.8	173.5	144.5	117.2	100.9	97.2	99.0
40°	3139.4	1869.5	297.1	217.1	183.5	149.9	114.5	88.1	77.2	73.6	72.7
42.5°	3264.8	1710.5	264.3	202.6	166.2	126.3	90.0	69.1	60.0	57.2	57.2
45°	3417.4	1557.9	241.6	187.1	148.1	101.7	70.9	55.4	50.0	48.2	48.2
47.5°	3618.2	1424.4	222.5	171.7	128.1	80.9	57.2	48.2	44.5	45.4	46.4
50°	3821.6	1325.4	201.7	154.4	105.4	66.3	49.0	42.7	41.8	42.7	42.7
52.5°	3975.1	1267.2	173.5	130.8	82.7	55.4	43.6	39.9	39.1	37.3	37.3
55°	4182.2	1254.5	138.0	106.3	65.4	46.4	39.1	36.3	33.6	31.8	30.9
57.5°	4448.4	1269.0	106.3	82.7	50.9	38.1	34.5	30.0	26.3	22.7	22.7
60°	4613.7	1236.4	82.7	63.6	37.3	30.9	26.3	21.8	17.2	14.6	13.6
62.5°	4561.1	1098.2	65.4	47.2	26.3	22.7	17.2	14.6	10.0	7.3	6.3
65°	4289.4	886.6	52.7	32.7	19.1	13.6	9.1	9.1	4.5	0.9	0.0
67.5°	3754.4	656.8	41.8	21.8	10.9	6.3	4.5	2.7	0.0	0.0	0.0
70°	3055.8	474.2	32.7	13.6	6.3	4.5	1.8	0.9	0.0	0.0	0.0
72.5°	1940.4	271.6	25.4	8.1	4.5	1.8	0.0	0.0	0.0	0.0	0.0
75°	750.3	106.3	17.2	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	212.6	50.0	10.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	55.4	21.8	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.3	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	0.9	0.0	0.0	0.0	0.0	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

(END OF REPORT)