

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: P647947

Luminaire Tested: **GALN-SA5A-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17900.1 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

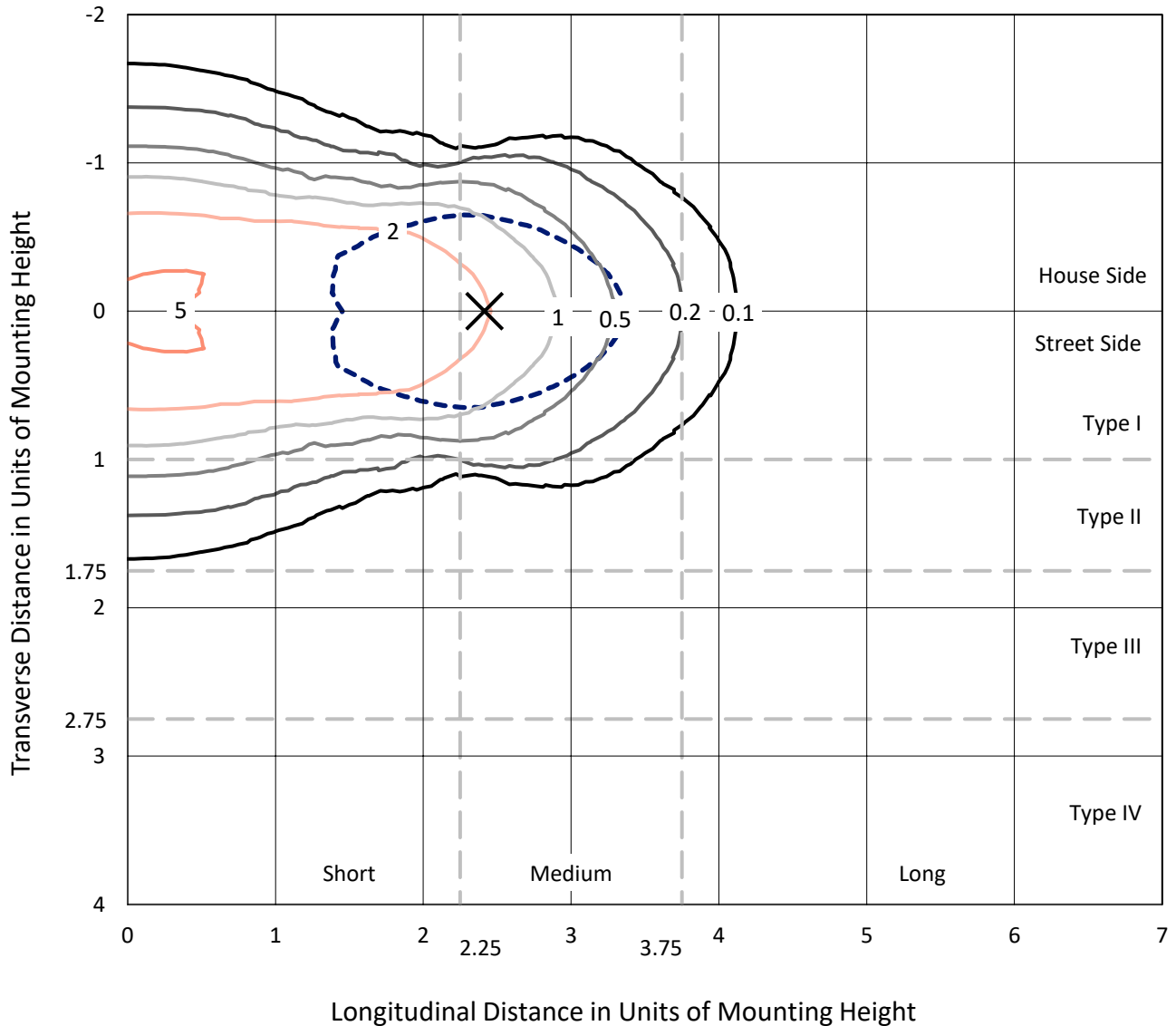
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

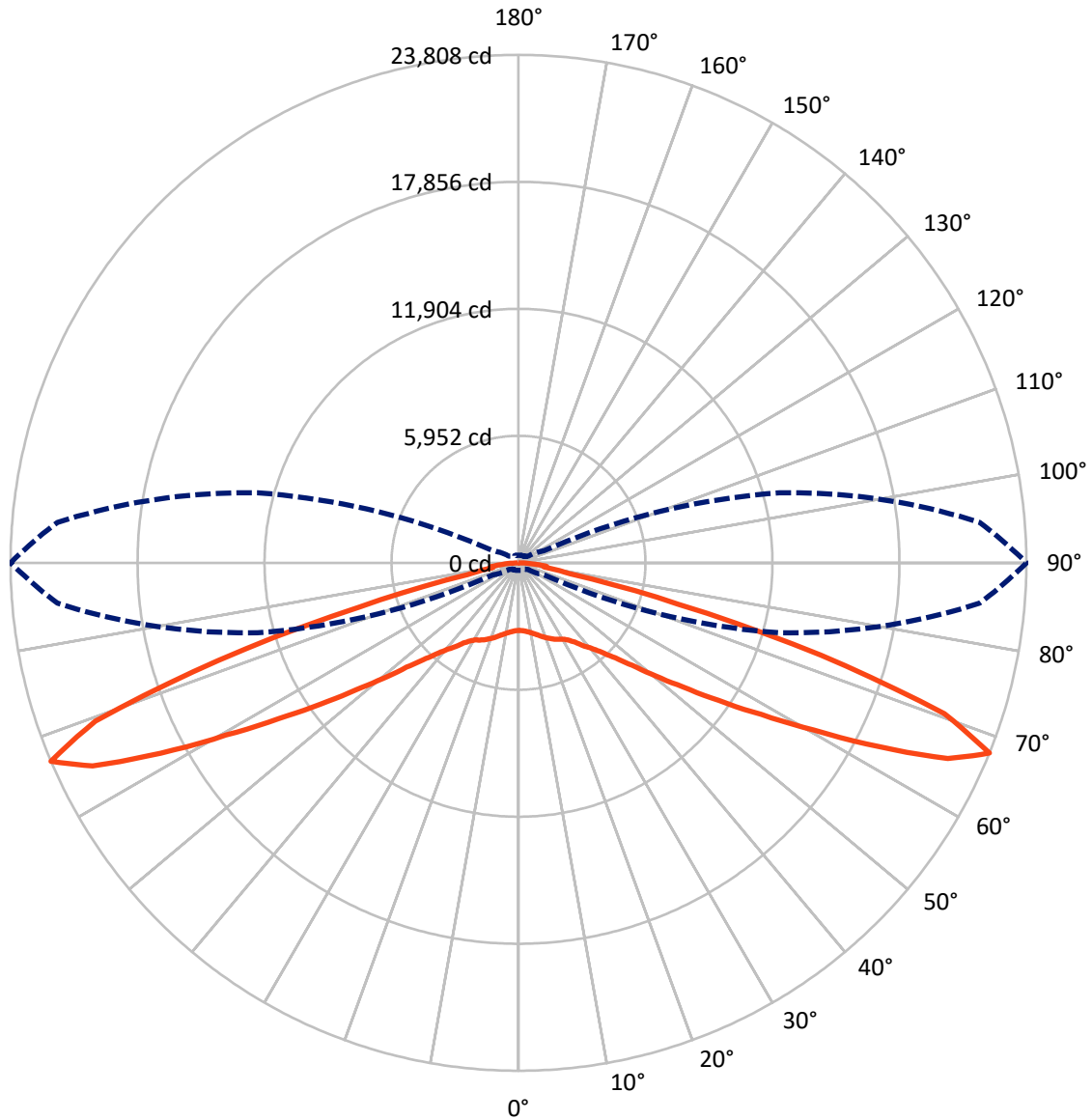
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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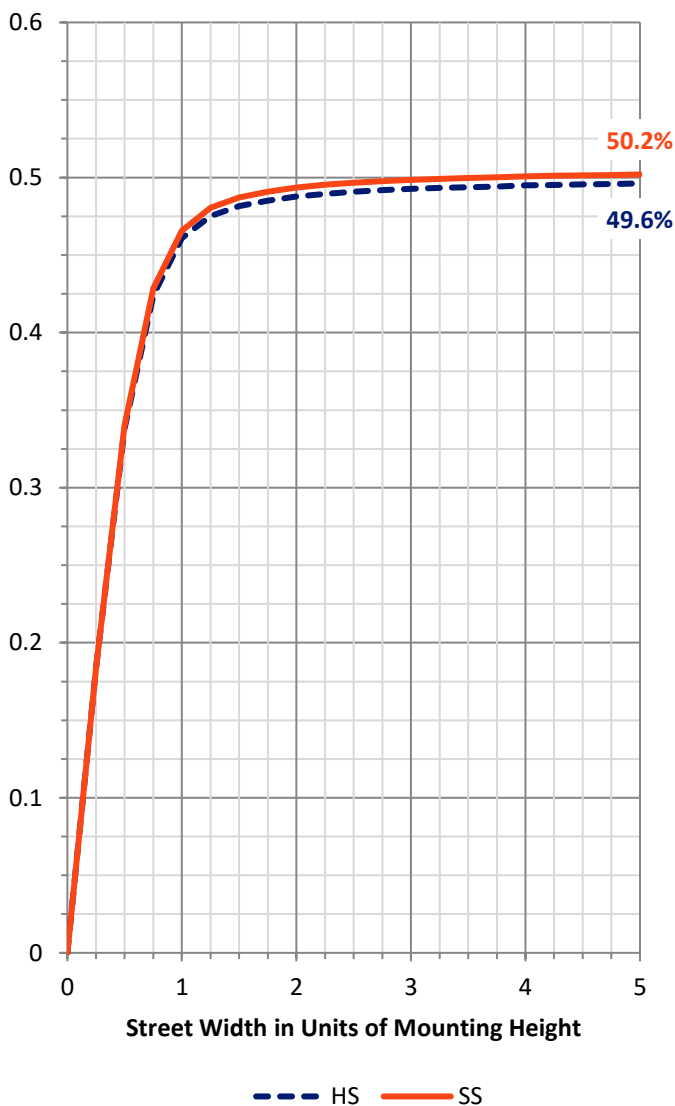
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8950.1	0.0	8950.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8950.1	0.0	8950.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	17900.1	0.0	17900.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	1.8
10°-20°	1010.8	5.6
20°-30°	1691.9	9.5
30°-40°	2292.0	12.8
40°-50°	2903.2	16.2
50°-60°	3626.9	20.3
60°-70°	4263.2	23.8
70°-80°	1630.9	9.1
80°-90°	165.2	0.9
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°	17900.1	100.0
0°-180°	17900.1	100.0

Coefficient of Utilization

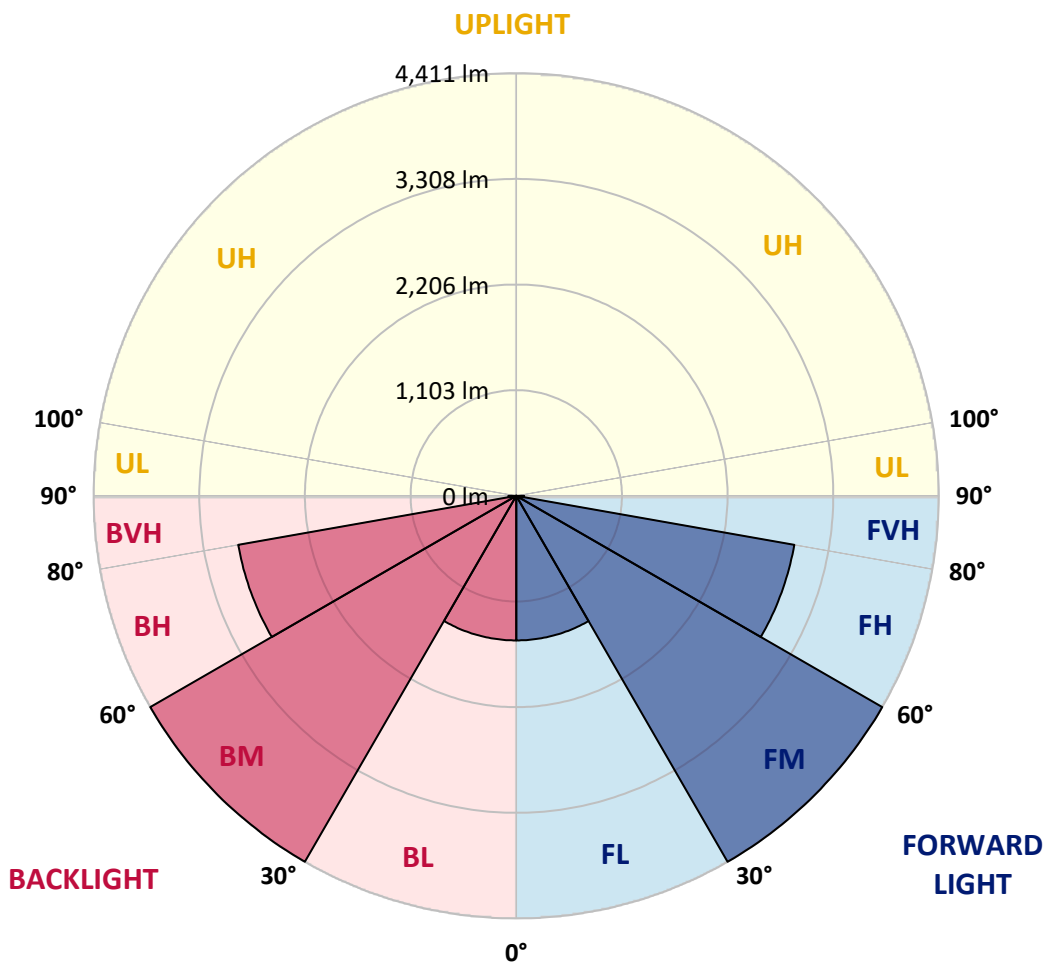


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.3	8.4			
FM (30°-60°)	4411.1	24.6			
FH (60°-80°)	2947.1	16.5			G2/5000
FVH (80°-90°)	82.6	0.5			G1/100
BL (0°-30°)	1509.3	8.4	B3/2500		
BM (30°-60°)	4411.1	24.6	B3/5000		
BH (60°-80°)	2947.1	16.5	B4/5000		G4/5000
BVH (80°-90°)	82.6	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-G4
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3168.9	3168.9	3168.9	3168.9	3168.9	3168.9	3168.9	3168.9	3168.9	3168.9	3168.9
2.5°	3209.5	3207.6	3208.5	3207.6	3210.5	3208.5	3196.7	3186.7	3178.8	3179.8	3176.8
5°	3278.0	3278.9	3279.9	3275.0	3281.9	3278.0	3259.1	3243.3	3227.4	3221.4	3219.5
7.5°	3334.4	3339.3	3342.3	3347.3	3359.2	3359.2	3349.3	3326.5	3291.8	3272.0	3271.0
10°	3390.9	3394.9	3403.8	3419.7	3439.5	3458.4	3454.4	3423.6	3379.0	3345.3	3337.4
12.5°	3410.7	3415.7	3445.4	3491.0	3535.6	3572.3	3572.3	3547.5	3490.1	3438.5	3423.6
15°	3341.4	3350.3	3403.8	3500.9	3617.9	3698.2	3716.0	3681.4	3619.9	3540.6	3522.7
17.5°	3203.6	3225.4	3303.7	3447.4	3641.7	3808.2	3859.7	3842.9	3763.6	3662.5	3641.7
20°	3055.9	3079.7	3162.9	3353.3	3621.8	3872.6	4022.3	4026.3	3928.2	3781.4	3750.7
22.5°	2893.3	2911.2	3018.2	3241.2	3562.4	3887.5	4162.0	4230.5	4097.7	3900.4	3856.7
25°	2711.0	2730.8	2842.8	3083.6	3450.4	3870.7	4290.0	4440.6	4275.1	4027.3	3971.8
27.5°	2536.5	2544.4	2664.4	2909.2	3302.7	3827.1	4384.1	4633.9	4471.3	4132.4	4062.0
30°	2369.0	2387.8	2493.9	2735.7	3133.2	3741.8	4465.4	4854.0	4682.5	4242.4	4152.2
32.5°	2191.5	2214.3	2329.3	2574.2	2963.7	3613.9	4514.9	5094.8	4976.8	4420.8	4324.7
35°	2021.1	2036.0	2151.9	2389.8	2798.2	3465.2	4523.9	5366.4	5356.5	4691.3	4563.5
37.5°	1846.6	1868.4	1985.4	2213.4	2622.7	3307.6	4479.2	5654.8	5814.4	5067.0	4929.3
40°	1679.1	1697.9	1812.9	2042.8	2423.5	3115.3	4373.2	5918.5	6348.6	5453.6	5258.3
42.5°	1496.7	1501.7	1627.5	1861.5	2228.3	2892.3	4220.5	6153.4	6944.4	5972.0	5729.1
45°	1289.5	1302.4	1419.4	1649.4	2004.2	2642.5	4013.4	6347.7	7699.7	6690.7	6359.6
47.5°	1082.4	1093.3	1200.3	1427.3	1759.4	2356.1	3694.2	6518.2	8474.8	7603.6	7169.4
50°	880.2	886.1	973.3	1174.6	1483.9	2054.7	3298.7	6572.7	9351.1	8896.1	8342.0
52.5°	695.9	704.8	771.2	928.8	1189.5	1699.0	2871.5	6437.9	10374.0	10428.5	9647.4
55°	564.0	567.0	616.5	732.5	929.7	1326.2	2356.1	6062.2	11474.2	12392.1	11395.9
57.5°	485.7	487.7	515.4	579.9	715.7	1000.1	1827.8	5351.5	12462.5	14692.7	13412.0
60°	441.1	442.1	457.9	495.6	567.0	767.2	1309.4	4348.4	13437.8	17252.9	15917.8
62.5°	413.3	413.3	424.2	445.1	479.7	588.7	948.6	3137.2	14105.8	19850.9	19006.4
65°	386.6	386.6	394.5	409.4	428.2	481.7	700.8	2045.8	14089.0	21743.1	22112.8
67.5°	355.9	355.9	361.8	376.6	387.6	414.3	541.2	1340.1	12655.7	21701.5	23807.8
70°	319.2	319.2	327.1	340.0	348.9	365.7	427.2	916.9	9297.5	18529.6	21173.2
72.5°	282.5	283.4	288.5	301.3	308.3	318.2	354.9	642.3	5703.4	12617.0	14804.7
75°	241.9	243.8	248.8	261.7	267.6	271.6	299.3	457.9	2885.4	6802.6	7745.3
77.5°	195.3	199.2	202.2	216.1	220.0	226.0	246.8	331.1	1266.7	2444.3	2466.1
80°	142.7	147.7	156.6	169.5	172.5	176.4	188.3	234.9	573.9	1116.1	1212.2
82.5°	105.1	112.0	101.1	117.9	117.9	113.0	132.8	157.6	263.6	1105.2	1322.3
85°	57.5	58.5	52.5	60.4	64.4	63.4	70.4	77.3	127.9	737.4	760.3
87.5°	13.9	14.9	15.9	18.9	22.8	22.8	24.7	21.8	41.7	238.9	136.8
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)