

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: P648387

Luminaire Tested: **GALN-SA4B-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648387
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-SA4B-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17594 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

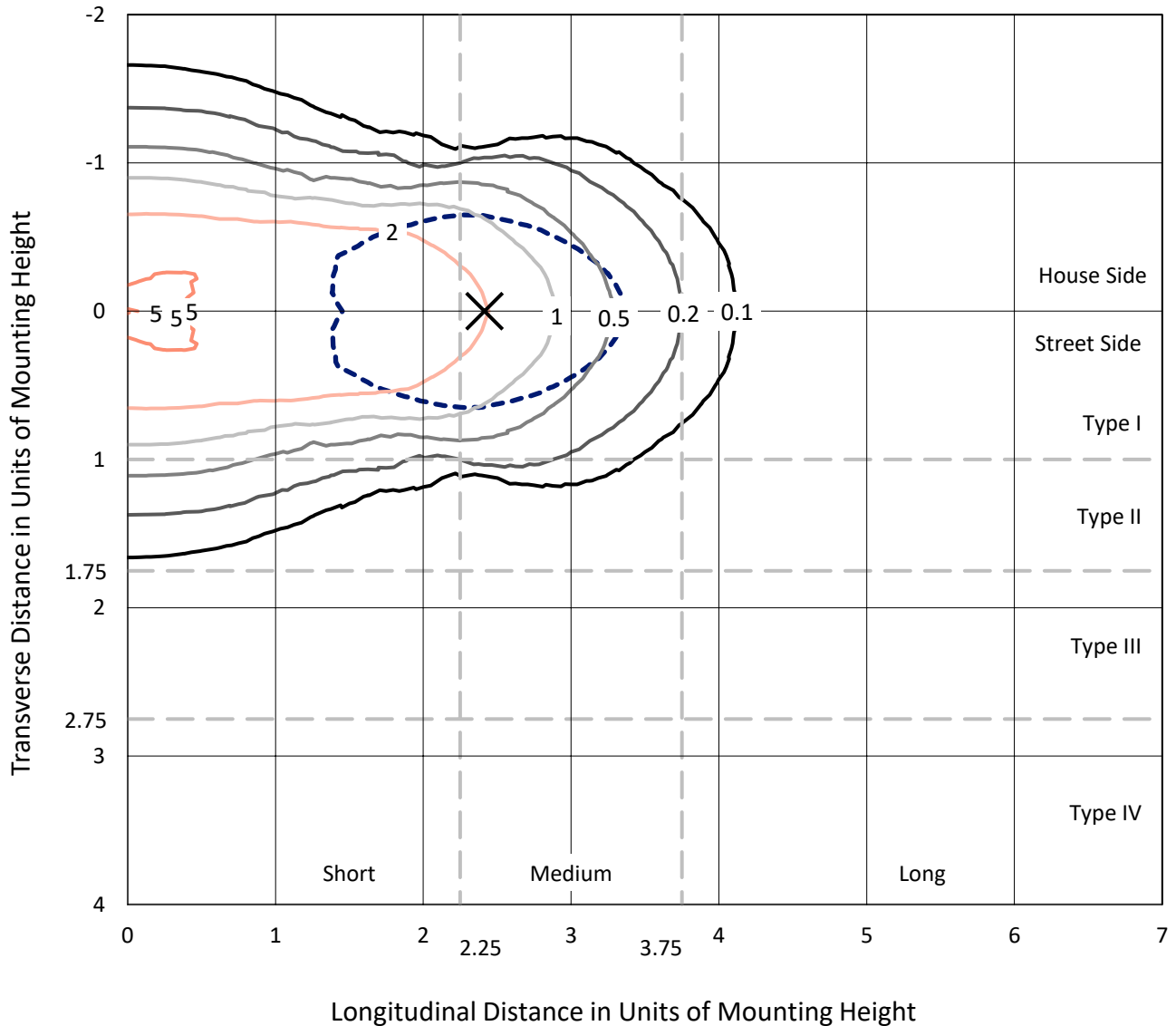
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648387
 CATALOG NUMBER: GALN-SA4B-835-U-T1

Iso-Footcandle Lines of Horizontal Illumination

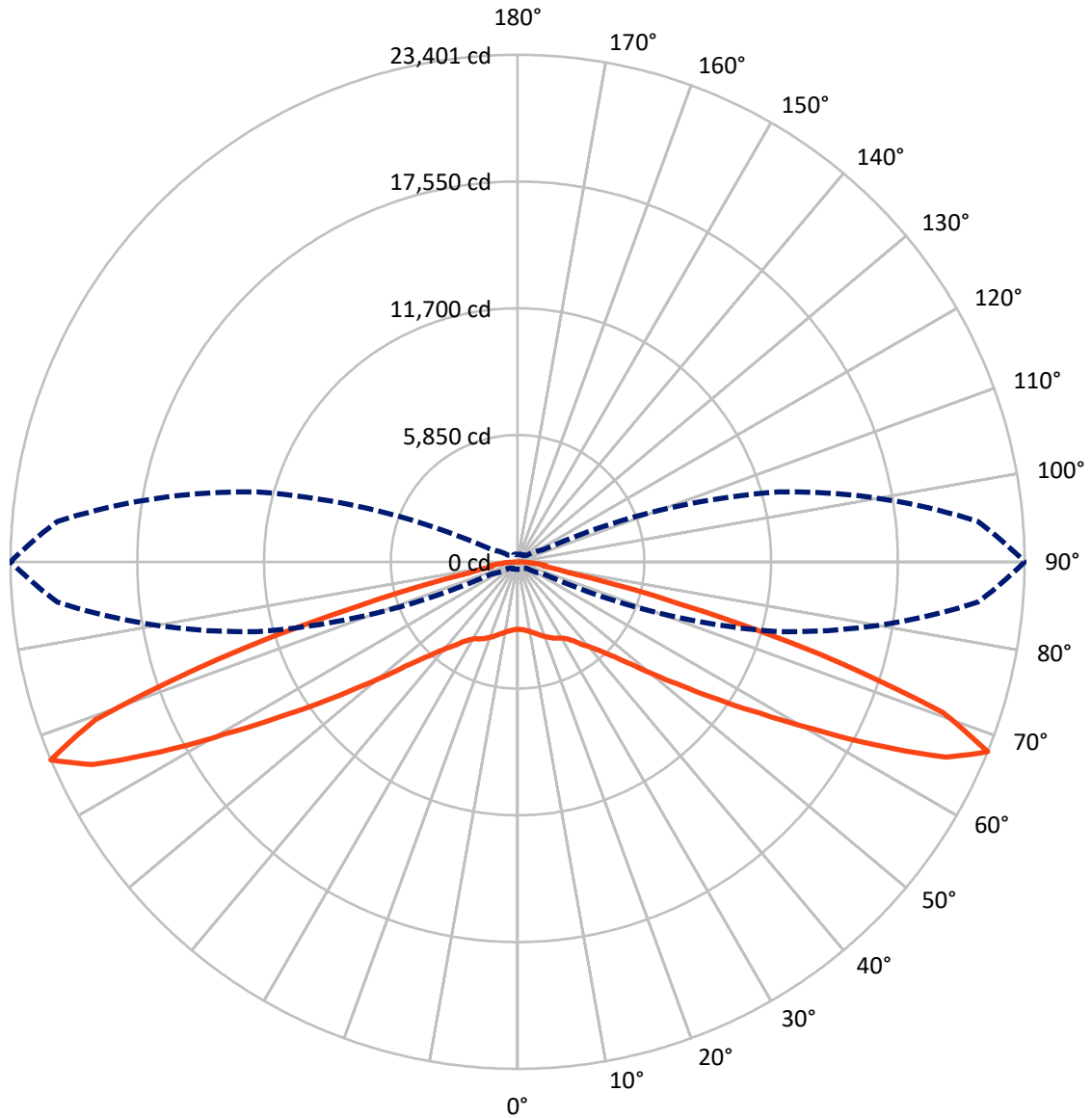
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type I - Short - N/A

REPORT NUMBER: P648387
CATALOG NUMBER: GALN-SA4B-835-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648387
 CATALOG NUMBER: GALN-SA4B-835-U-T1

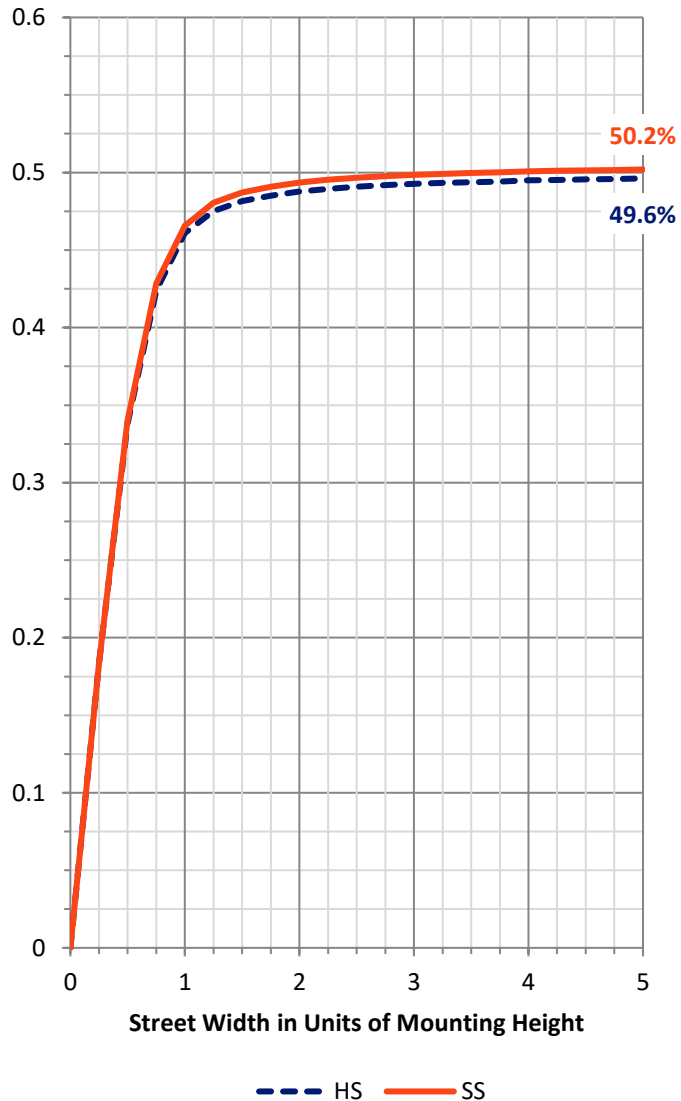
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8797.0	0.0	8797.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8797.0	0.0	8797.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17594.0	0.0	17594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.5	1.8
10°-20°	993.5	5.6
20°-30°	1662.9	9.5
30°-40°	2252.8	12.8
40°-50°	2853.6	16.2
50°-60°	3564.9	20.3
60°-70°	4190.3	23.8
70°-80°	1603.0	9.1
80°-90°	162.4	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°	17594.0	100.0
0°-180°	17594.0	100.0

Coefficient of Utilization

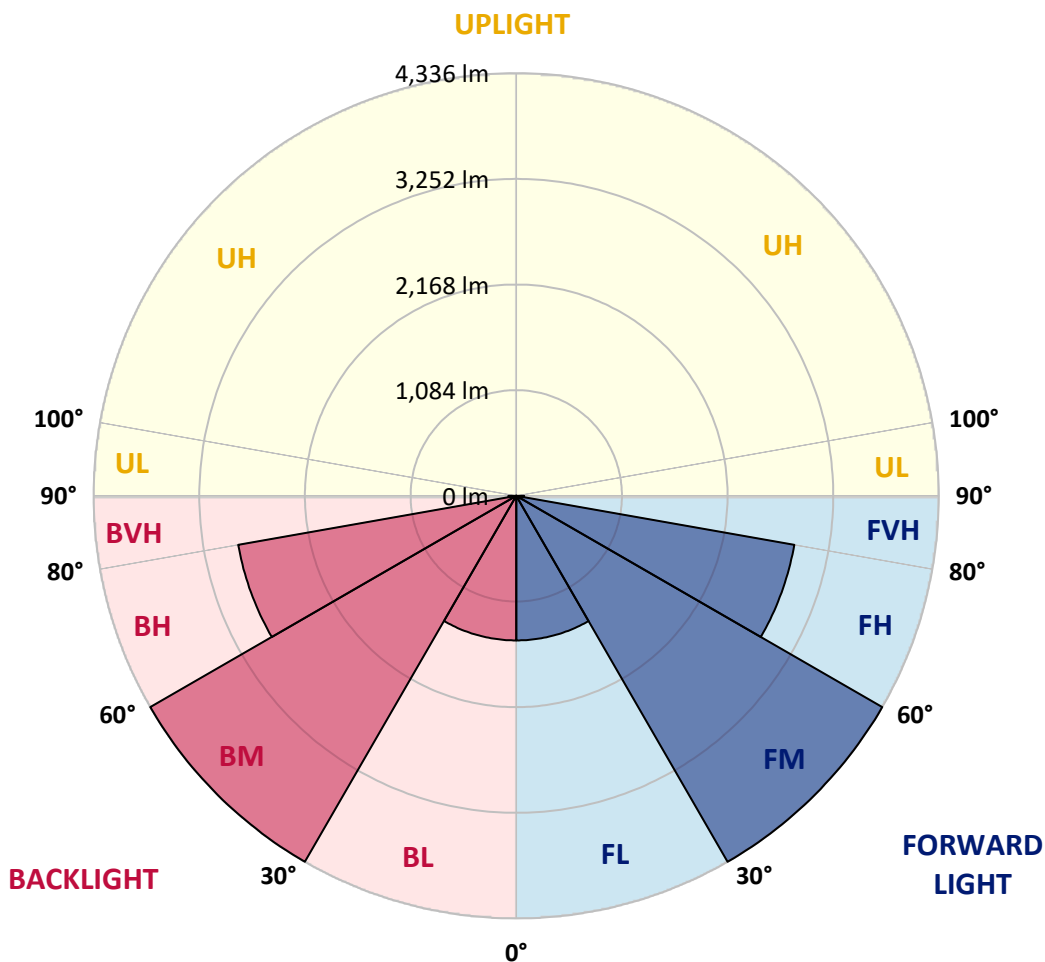


REPORT NUMBER: P648387
 CATALOG NUMBER: GALN-SA4B-835-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.5	8.4			
FM (30°-60°)	4335.6	24.6			
FH (60°-80°)	2896.7	16.5			G2/5000
FVH (80°-90°)	81.2	0.5			G1/100
BL (0°-30°)	1483.5	8.4	B3/2500		
BM (30°-60°)	4335.6	24.6	B3/5000		
BH (60°-80°)	2896.7	16.5	B4/5000		G4/5000
BVH (80°-90°)	81.2	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





REPORT NUMBER: P648387
 CATALOG NUMBER: GALN-SA4B-835-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°	
0°	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7
2.5°	3154.6	3152.7	3153.7	3152.7	3155.6	3153.7	3141.9	3132.2	3124.4	3125.4	3125.4	3122.4
5°	3221.9	3222.8	3223.8	3218.9	3225.7	3221.9	3203.3	3187.7	3172.2	3166.3	3166.3	3164.3
7.5°	3277.4	3282.3	3285.2	3290.1	3301.8	3301.8	3292.0	3269.6	3235.5	3216.0	3216.0	3215.0
10°	3332.9	3336.8	3345.6	3361.2	3380.7	3399.2	3395.2	3365.1	3321.3	3288.1	3288.1	3280.3
12.5°	3352.4	3357.3	3386.5	3431.3	3475.2	3511.2	3511.2	3486.9	3430.3	3379.7	3379.7	3365.1
15°	3284.2	3293.0	3345.6	3441.1	3556.0	3634.9	3652.5	3618.4	3558.0	3480.0	3480.0	3462.5
17.5°	3148.8	3170.2	3247.2	3388.4	3579.4	3743.1	3793.7	3777.2	3699.2	3599.8	3599.8	3579.4
20°	3003.6	3027.0	3108.8	3295.9	3559.9	3806.4	3953.5	3957.4	3861.0	3716.7	3716.7	3686.6
22.5°	2843.9	2861.4	2966.6	3185.8	3501.5	3821.0	4090.9	4158.1	4027.6	3833.7	3833.7	3790.8
25°	2664.5	2684.0	2794.1	3030.9	3391.4	3804.4	4216.5	4364.7	4202.0	3958.4	3958.4	3903.8
27.5°	2493.2	2500.9	2618.8	2859.4	3246.2	3761.6	4309.1	4554.6	4394.8	4061.7	4061.7	3992.5
30°	2328.5	2347.0	2451.3	2688.9	3079.6	3677.8	4389.0	4770.9	4602.4	4169.8	4169.8	4081.2
32.5°	2154.1	2176.5	2289.5	2530.1	2913.0	3552.2	4437.7	5007.7	4891.7	4345.2	4345.2	4250.7
35°	1986.5	2001.1	2115.1	2348.9	2750.3	3406.0	4446.5	5274.6	5264.9	4611.2	4611.2	4485.5
37.5°	1815.1	1836.4	1951.4	2175.5	2577.9	3251.1	4402.7	5558.1	5715.0	4980.3	4980.3	4845.0
40°	1650.4	1668.9	1781.9	2007.9	2382.0	3062.1	4298.4	5817.3	6240.1	5360.3	5360.3	5168.4
42.5°	1471.1	1476.0	1599.7	1829.6	2190.1	2842.8	4148.3	6048.1	6825.6	5869.8	5869.8	5631.2
45°	1267.5	1280.2	1395.1	1621.1	1969.9	2597.4	3944.8	6239.1	7568.0	6576.2	6576.2	6250.8
47.5°	1063.9	1074.6	1179.8	1402.9	1729.3	2315.8	3631.0	6406.7	8329.9	7473.5	7473.5	7046.8
50°	865.1	871.0	956.7	1154.5	1458.5	2019.6	3242.3	6460.3	9191.1	8743.9	8743.9	8199.3
52.5°	684.0	692.7	757.9	912.9	1169.1	1669.9	2822.4	6327.7	10196.5	10250.1	10250.1	9482.4
55°	554.4	557.3	606.0	720.0	913.8	1303.5	2315.8	5958.6	11277.9	12180.1	12180.1	11201.0
57.5°	477.4	479.4	506.6	569.9	703.4	983.1	1796.5	5260.0	12249.3	14441.3	14441.3	13182.6
60°	433.5	434.5	450.1	487.1	557.3	754.1	1287.0	4274.1	13208.0	16957.8	16957.8	15645.5
62.5°	406.3	406.3	416.9	437.5	471.5	578.7	932.4	3083.5	13864.6	19511.3	19511.3	18681.3
65°	380.0	380.0	387.7	402.4	420.9	473.5	688.8	2010.8	13848.1	21371.2	21371.2	21734.6
67.5°	349.8	349.8	355.6	370.2	380.9	407.2	532.0	1317.2	12439.3	21330.3	21330.3	23400.6
70°	313.7	313.7	321.5	334.2	343.0	359.5	419.9	901.2	9138.5	18212.7	18212.7	20811.0
72.5°	277.7	278.7	283.5	296.2	303.0	312.7	348.7	631.3	5605.9	12401.2	12401.2	14551.4
75°	237.7	239.7	244.5	257.2	263.0	266.9	294.3	450.1	2836.0	6686.3	6686.3	7612.8
77.5°	191.9	195.8	198.7	212.3	216.3	222.1	242.6	325.4	1245.1	2402.5	2402.5	2423.9
80°	140.3	145.2	153.9	166.6	169.5	173.4	185.1	230.9	564.1	1097.0	1097.0	1191.5
82.5°	103.3	110.1	99.4	116.0	116.0	111.0	130.5	154.9	259.2	1086.3	1086.3	1299.6
85°	56.5	57.5	51.6	59.4	63.3	62.3	69.1	76.0	125.7	724.8	724.8	747.2
87.5°	13.6	14.6	15.6	18.5	22.4	22.4	24.4	21.5	41.0	234.8	234.8	134.4
90°	0.0	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)