

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: P648354

Luminaire Tested: **GALN-SA4B-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15557.4 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

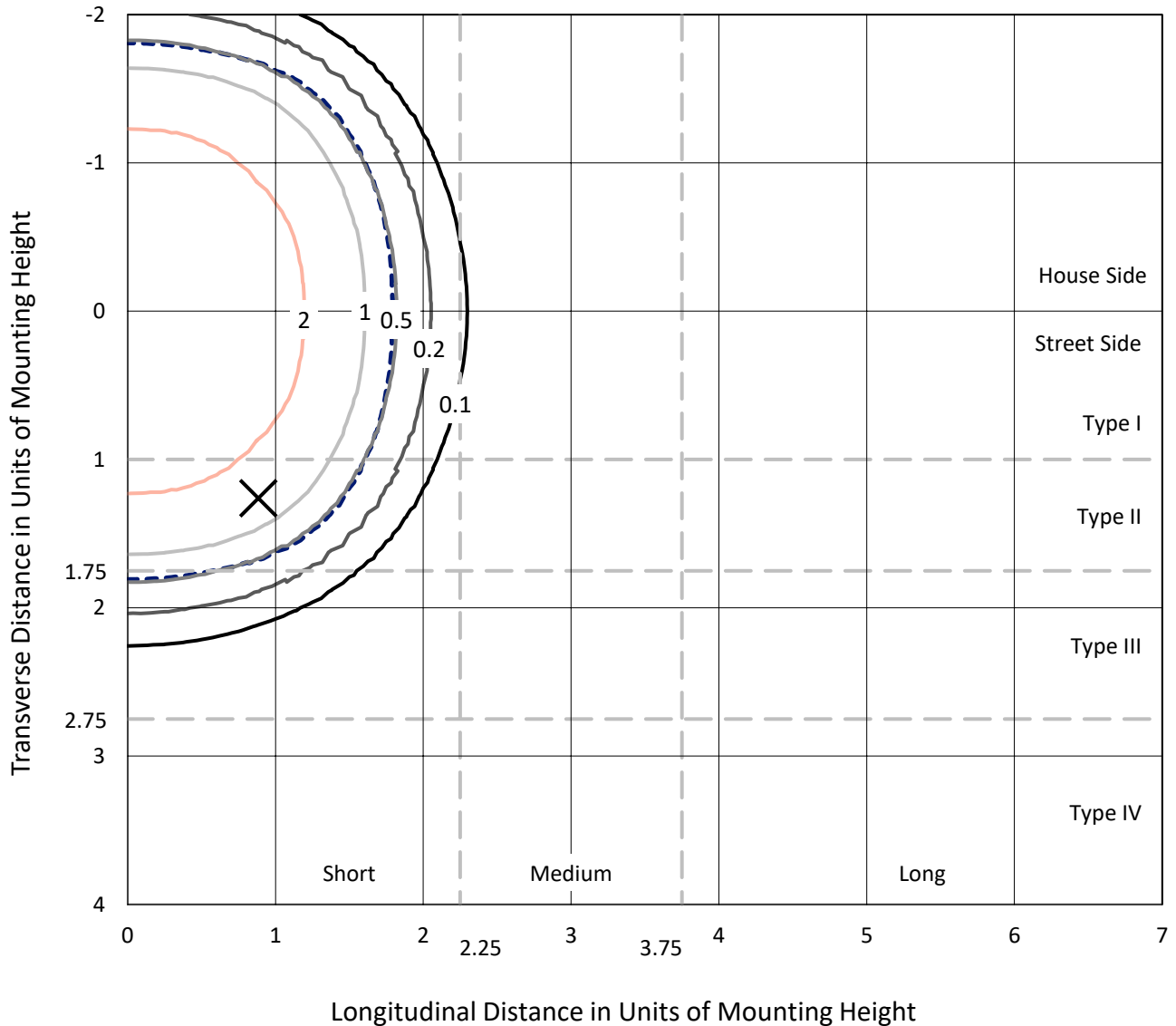
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

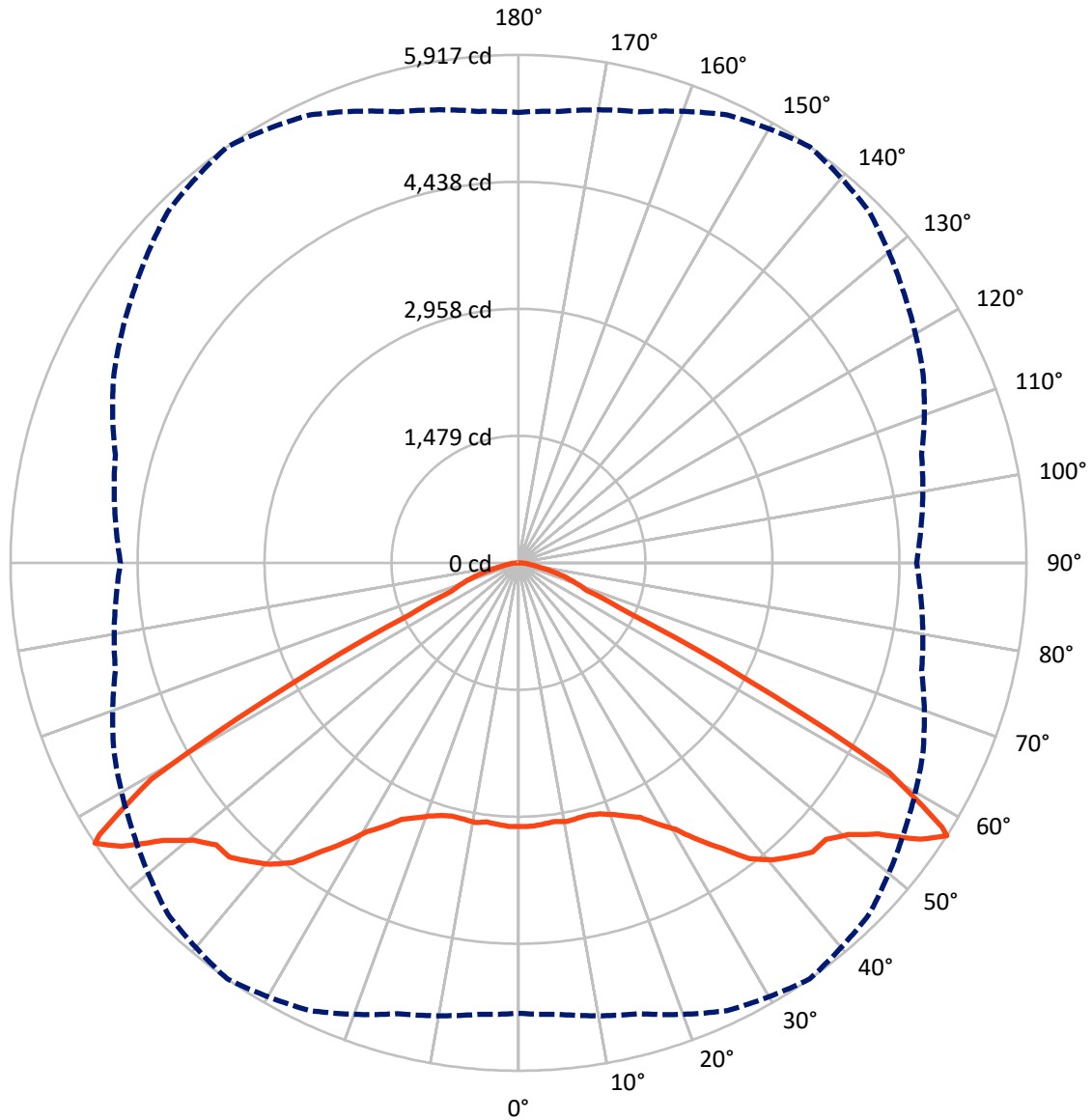
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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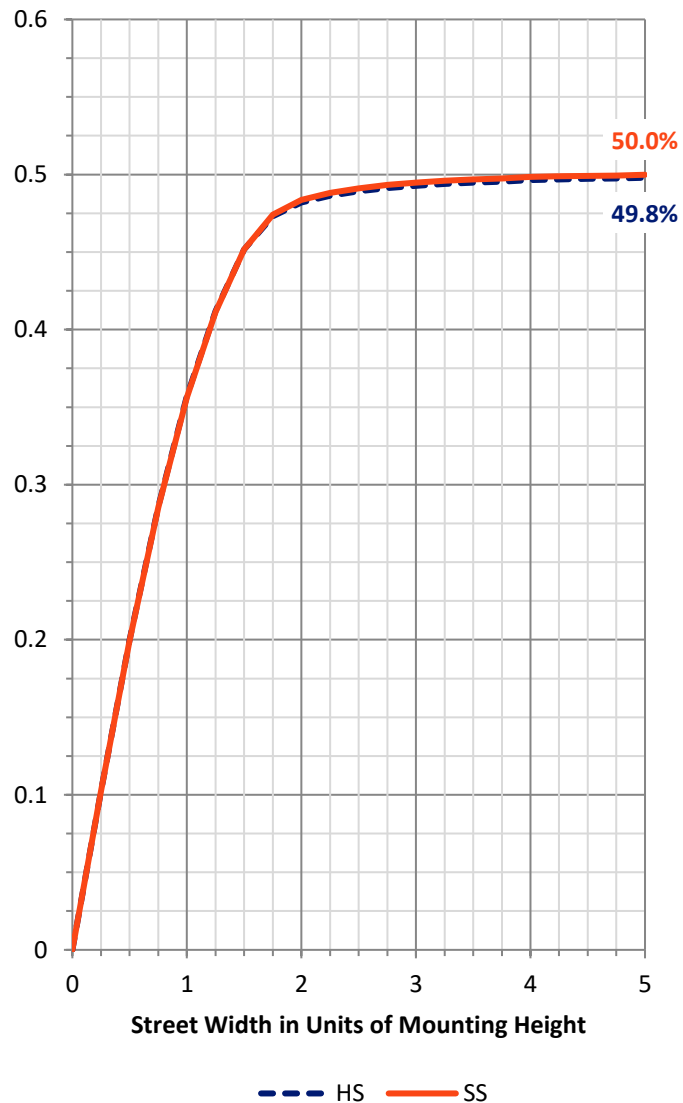
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7778.7	0.0	7778.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7778.7	0.0	7778.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15557.4	0.0	15557.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	1.9
10°-20°	862.7	5.5
20°-30°	1506.7	9.7
30°-40°	2468.7	15.9
40°-50°	3619.8	23.3
50°-60°	4559.4	29.3
60°-70°	1714.7	11.0
70°-80°	455.9	2.9
80°-90°	78.2	0.5
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°	15557.4	100.0
0°-180°	15557.4	100.0

Coefficient of Utilization



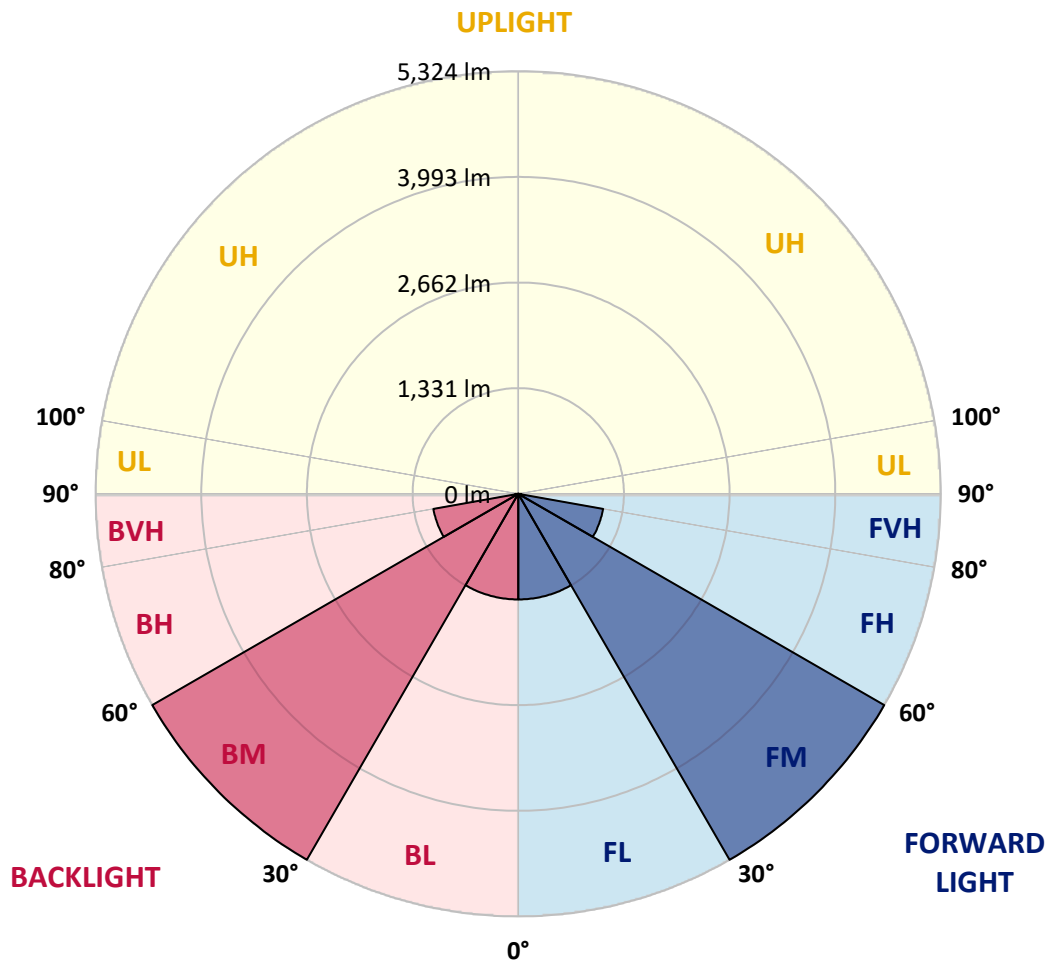
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.3	8.6			
FM (30°-60°)	5324.0	34.2			
FH (60°-80°)	1085.3	7.0			G1/1800
FVH (80°-90°)	39.1	0.3			G1/100
BL (0°-30°)	1330.3	8.6	B3/2500		
BM (30°-60°)	5324.0	34.2	B4/8500		
BH (60°-80°)	1085.3	7.0	B3/2500		G1/1800
BVH (80°-90°)	39.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3072.5	3072.5	3072.5	3072.5	3072.5	3072.5	3072.5	3072.5	3072.5	3072.5	3072.5
2.5°	3057.1	3087.8	3074.4	3066.7	3072.5	3062.9	3047.6	3064.8	3061.0	3045.6	3039.9
5°	3049.5	3072.5	3057.1	3072.5	3057.1	3084.0	3076.3	3047.6	3082.0	3049.5	3061.0
7.5°	3043.8	3051.4	3055.3	3047.6	3041.8	3074.4	3057.1	3043.8	3024.6	3018.8	3028.4
10°	3030.3	3049.5	3020.7	3059.0	3066.7	3043.8	3043.8	3018.8	3003.5	2993.9	3026.5
12.5°	3064.8	3032.2	3028.4	3047.6	3053.3	3062.9	3036.1	3022.6	2993.9	2997.7	2992.0
15°	3024.6	3038.0	3039.9	3043.8	3049.5	3072.5	3047.6	3018.8	3007.3	2967.0	2970.9
17.5°	3039.9	3026.5	3039.9	3084.0	3076.3	3093.6	3066.7	3022.6	2995.8	2972.8	3003.5
20°	3066.7	3061.0	3066.7	3120.4	3130.0	3145.3	3122.3	3082.0	3030.3	3003.5	3018.8
22.5°	3095.5	3091.7	3095.5	3147.2	3202.8	3222.0	3198.9	3105.1	3078.2	3028.4	3011.1
25°	3147.2	3151.0	3191.4	3248.8	3285.2	3321.6	3279.5	3212.4	3126.1	3095.5	3059.0
27.5°	3262.2	3271.8	3294.8	3379.1	3442.4	3475.0	3415.6	3323.6	3269.9	3206.6	3197.1
30°	3404.1	3404.1	3444.3	3517.2	3603.4	3653.2	3580.4	3471.1	3406.0	3371.5	3350.4
32.5°	3591.9	3570.8	3586.1	3714.6	3848.8	3890.9	3793.2	3659.0	3555.5	3509.5	3494.1
35°	3752.9	3766.3	3800.8	3938.8	4088.4	4186.1	4032.8	3858.3	3752.9	3710.7	3703.0
37.5°	3961.8	3984.8	4002.1	4191.9	4372.0	4408.4	4260.9	4120.9	3992.5	3958.0	3938.8
40°	4257.0	4241.7	4247.4	4387.3	4550.2	4573.3	4427.6	4328.0	4222.5	4201.4	4201.4
42.5°	4500.4	4483.1	4502.3	4554.1	4678.7	4661.4	4580.9	4508.1	4464.0	4441.0	4464.0
45°	4648.0	4644.2	4678.7	4717.0	4805.2	4747.6	4684.5	4696.0	4653.8	4615.4	4613.5
47.5°	4809.0	4784.1	4826.3	4883.7	4816.7	4789.8	4786.0	4810.9	4797.5	4730.4	4709.4
50°	4887.6	4878.0	4945.1	5012.2	4975.7	4914.4	4927.8	4968.1	4795.6	4705.5	4653.8
52.5°	5098.4	5100.4	5228.8	5265.2	5249.9	5159.7	5188.5	5079.2	4876.1	4749.6	4755.3
55°	5430.0	5416.6	5560.4	5667.7	5685.0	5569.9	5431.9	5278.6	5023.6	4895.2	4856.9
57°	5247.9	5278.6	5437.7	5755.8	5916.9	5780.8	5479.8	5200.0	4860.8	4705.5	4636.5
57.5°	5004.5	5054.3	5330.4	5650.4	5819.1	5807.6	5420.5	5054.3	4751.5	4510.0	4515.7
60°	3666.6	3676.3	3925.4	4433.3	4960.5	4971.9	4500.4	4015.5	3678.1	3415.6	3452.0
62.5°	1933.9	1978.0	2077.7	2485.9	2942.1	3053.3	2767.7	2518.5	2227.2	2027.9	2047.1
65°	1023.5	1017.7	1065.7	1180.7	1404.9	1462.4	1424.1	1226.7	1125.1	1092.5	1094.4
67.5°	831.9	841.4	835.7	841.4	856.8	881.7	875.9	883.6	889.3	899.0	897.0
70°	705.3	705.3	709.2	711.1	711.1	722.6	736.0	760.9	762.9	772.4	776.3
72.5°	555.9	552.0	557.7	571.2	573.1	582.7	601.8	617.2	623.0	623.0	611.4
75°	377.6	381.4	389.1	400.6	412.1	429.3	444.7	454.3	458.1	452.3	446.6
77.5°	212.7	216.6	222.4	239.6	253.0	268.3	285.6	295.2	304.7	306.7	295.2
80°	126.5	126.5	136.1	149.5	164.8	180.2	195.5	207.0	210.9	210.9	205.1
82.5°	76.7	78.6	86.3	99.7	113.1	122.7	136.1	145.6	153.3	151.4	147.6
85°	40.2	40.2	47.9	59.4	69.0	78.6	78.6	72.8	69.0	59.4	55.6
87.5°	13.4	11.5	15.3	15.3	13.4	15.3	15.3	17.2	17.2	17.2	17.2
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)