

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: P528898

Luminaire Tested: **GALN-SA4A-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528898
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-SA4A-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA 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: 14875 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

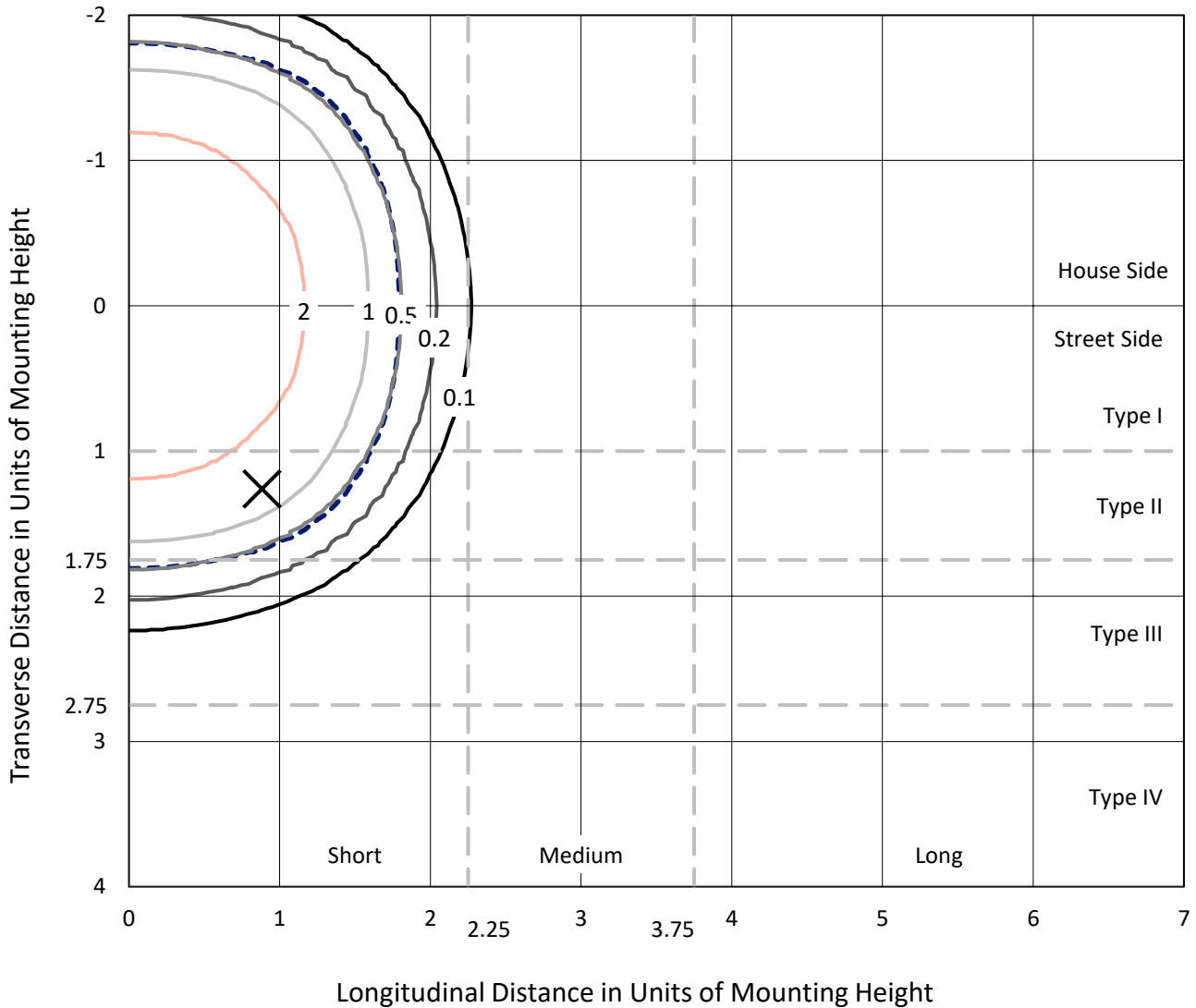
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

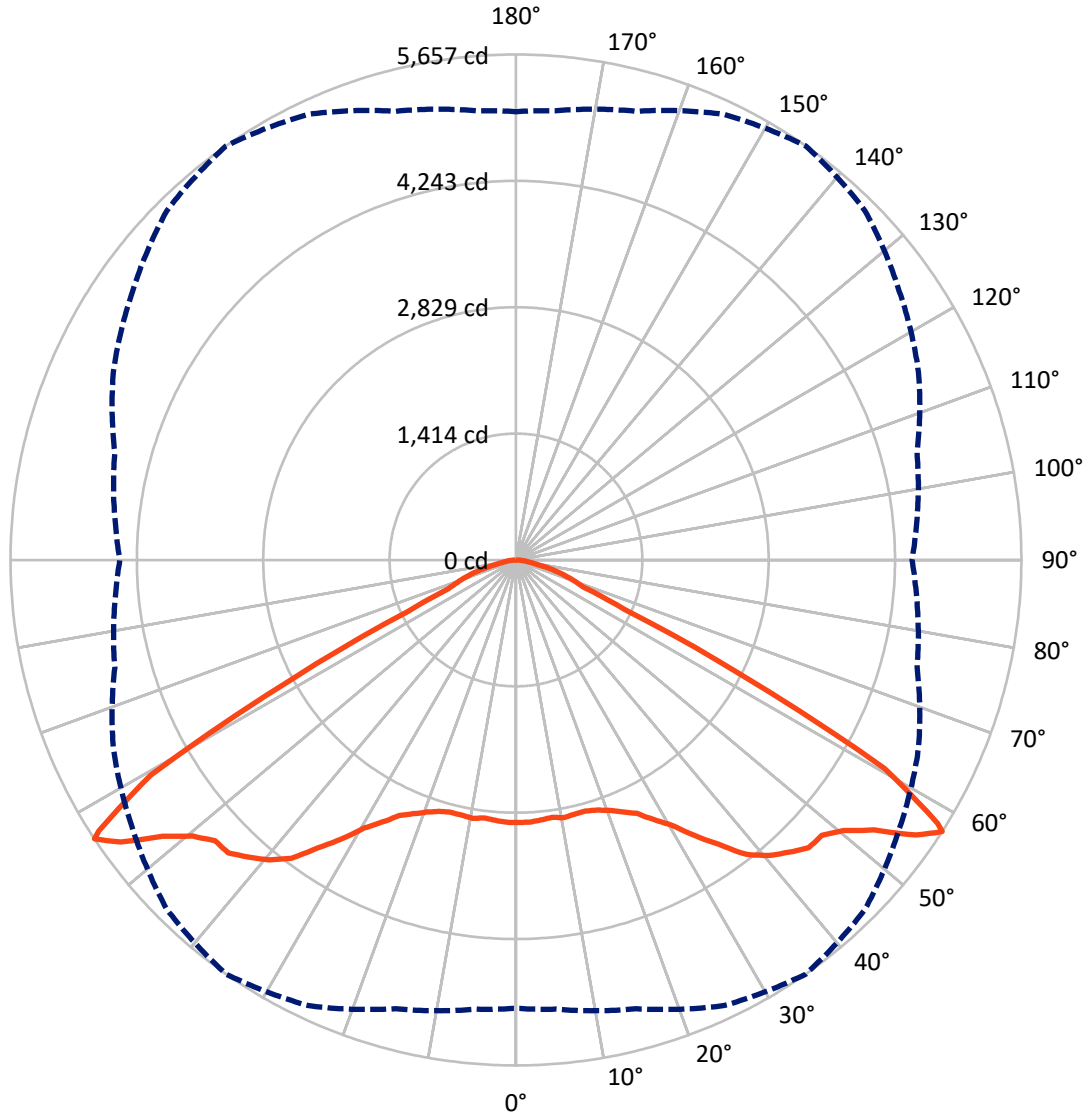
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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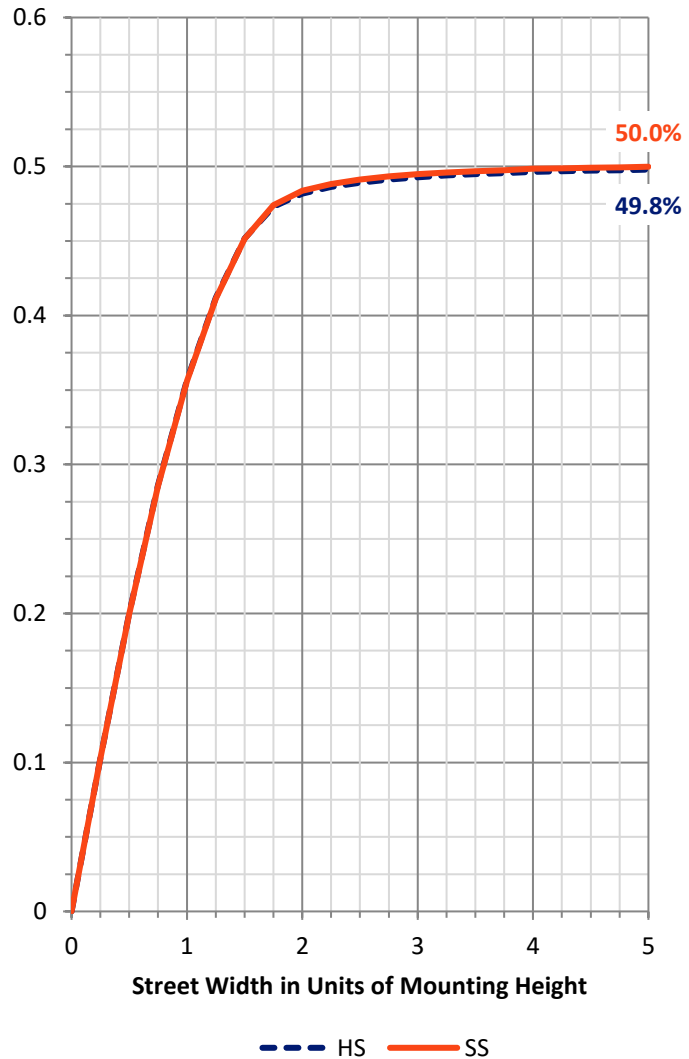
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7437.5	0.0	7437.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7437.5	0.0	7437.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14875.0	0.0	14875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	1.9
10°-20°	824.9	5.5
20°-30°	1440.6	9.7
30°-40°	2360.5	15.9
40°-50°	3461.0	23.3
50°-60°	4359.4	29.3
60°-70°	1639.5	11.0
70°-80°	435.9	2.9
80°-90°	74.7	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°	14875.0	100.0
0°-180°	14875.0	100.0

Coefficient of Utilization



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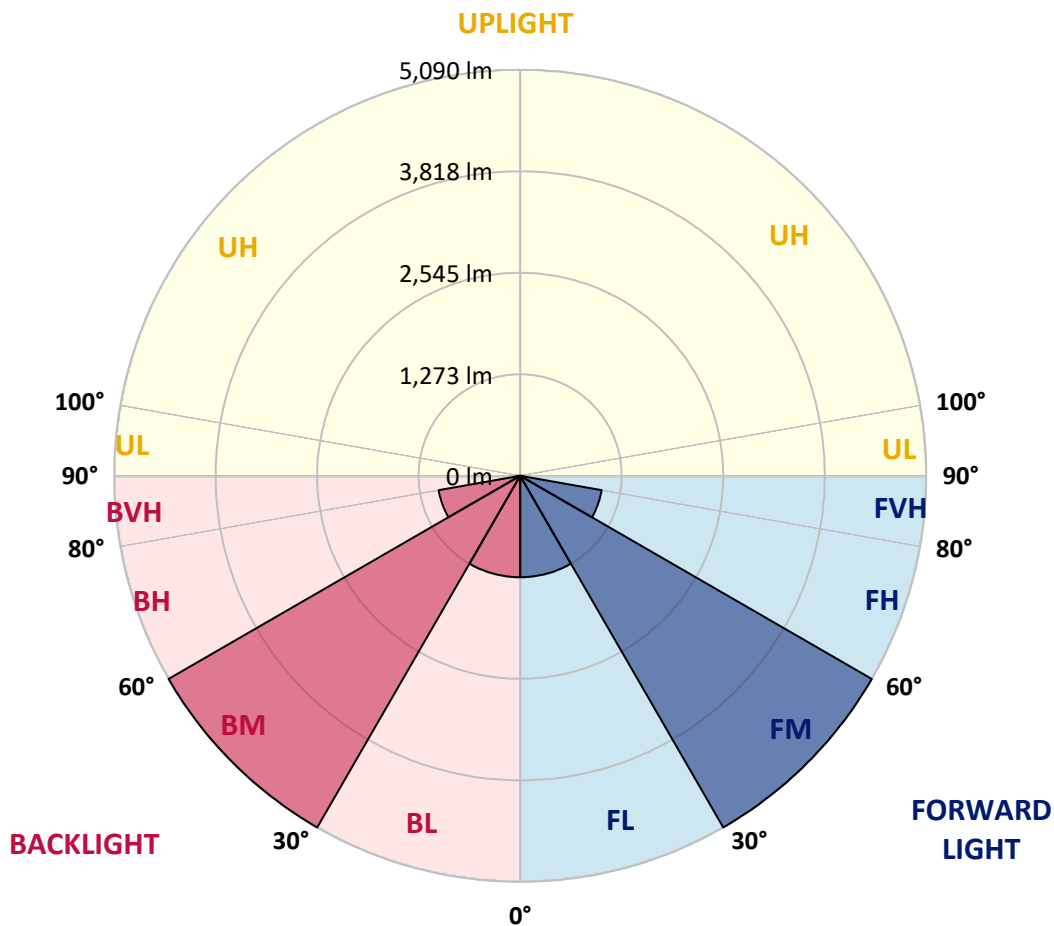
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1272.0	8.6			
FM (30°-60°)	5090.4	34.2			
FH (60°-80°)	1037.7	7.0			G1/1800
FVH (80°-90°)	37.4	0.3			G1/100
BL (0°-30°)	1272.0	8.6	B3/2500		
BM (30°-60°)	5090.4	34.2	B4/8500		
BH (60°-80°)	1037.7	7.0	B3/2500		G1/1800
BVH (80°-90°)	37.4	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°	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7
2.5°	2923.0	2952.4	2939.5	2932.2	2937.7	2928.5	2913.9	2930.4	2926.7	2912.0	2906.5
5°	2915.7	2937.7	2923.0	2937.7	2923.0	2948.7	2941.4	2913.9	2946.9	2915.7	2926.7
7.5°	2910.2	2917.5	2921.2	2913.9	2908.4	2939.5	2923.0	2910.2	2891.9	2886.4	2895.6
10°	2897.4	2915.7	2888.2	2924.9	2932.2	2910.2	2910.2	2886.4	2871.7	2862.6	2893.7
12.5°	2930.4	2899.2	2895.6	2913.9	2919.4	2928.5	2902.9	2890.1	2862.6	2866.2	2860.7
15°	2891.9	2904.7	2906.5	2910.2	2915.7	2937.7	2913.9	2886.4	2875.4	2836.9	2840.6
17.5°	2906.5	2893.7	2906.5	2948.7	2941.4	2957.9	2932.2	2890.1	2864.4	2842.4	2871.7
20°	2932.2	2926.7	2932.2	2983.5	2992.7	3007.3	2985.4	2946.9	2897.4	2871.7	2886.4
22.5°	2959.7	2956.0	2959.7	3009.2	3062.3	3080.6	3058.7	2968.9	2943.2	2895.6	2879.1
25°	3009.2	3012.8	3051.3	3106.3	3141.1	3175.9	3135.6	3071.5	2989.0	2959.7	2924.9
27.5°	3119.1	3128.3	3150.3	3230.9	3291.4	3322.6	3265.7	3177.8	3126.5	3066.0	3056.8
30°	3254.7	3254.7	3293.2	3362.9	3445.3	3493.0	3423.3	3318.9	3256.6	3223.6	3203.4
32.5°	3434.3	3414.2	3428.8	3551.6	3679.9	3720.2	3626.8	3498.5	3399.5	3355.5	3340.9
35°	3588.3	3601.1	3634.1	3766.1	3909.0	4002.5	3855.8	3689.1	3588.3	3548.0	3540.6
37.5°	3788.0	3810.0	3826.5	4008.0	4180.2	4215.0	4073.9	3940.2	3817.4	3784.4	3766.1
40°	4070.3	4055.6	4061.1	4194.9	4350.7	4372.7	4233.4	4138.1	4037.3	4017.1	4017.1
42.5°	4303.0	4286.5	4304.8	4354.3	4473.4	4457.0	4380.0	4310.3	4268.2	4246.2	4268.2
45°	4444.1	4440.5	4473.4	4510.1	4594.4	4539.4	4478.9	4489.9	4449.6	4413.0	4411.1
47.5°	4598.1	4574.2	4614.6	4669.5	4605.4	4579.7	4576.1	4599.9	4587.1	4522.9	4502.8
50°	4673.2	4664.0	4728.2	4792.3	4757.5	4698.9	4711.7	4750.2	4585.2	4499.1	4449.6
52.5°	4874.8	4876.6	4999.4	5034.2	5019.6	4933.4	4960.9	4856.5	4662.2	4541.3	4546.8
55°	5191.8	5179.0	5316.5	5419.1	5435.6	5325.6	5193.7	5047.1	4803.3	4680.5	4643.9
57°	5017.7	5047.1	5199.2	5503.4	5657.3	5527.2	5239.5	4971.9	4647.5	4499.1	4433.1
57.5°	4785.0	4832.6	5096.5	5402.6	5563.9	5552.9	5182.7	4832.6	4543.1	4312.2	4317.7
60°	3505.8	3515.0	3753.2	4238.9	4742.8	4753.8	4303.0	3839.4	3516.8	3265.7	3300.6
62.5°	1849.1	1891.3	1986.6	2376.9	2813.1	2919.4	2646.3	2408.1	2129.5	1938.9	1957.2
65°	978.6	973.1	1018.9	1128.9	1343.3	1398.3	1361.6	1172.9	1075.8	1044.6	1046.4
67.5°	795.4	804.5	799.0	804.5	819.2	843.0	837.5	844.8	850.3	859.5	857.7
70°	674.4	674.4	678.1	679.9	679.9	690.9	703.7	727.6	729.4	738.5	742.2
72.5°	531.5	527.8	533.3	546.1	548.0	557.1	575.4	590.1	595.6	595.6	584.6
75°	361.0	364.7	372.0	383.0	394.0	410.5	425.2	434.3	438.0	432.5	427.0
77.5°	203.4	207.1	212.6	229.1	241.9	256.6	273.1	282.2	291.4	293.2	282.2
80°	121.0	121.0	130.1	142.9	157.6	172.3	186.9	197.9	201.6	201.6	196.1
82.5°	73.3	75.1	82.5	95.3	108.1	117.3	130.1	139.3	146.6	144.8	141.1
85°	38.5	38.5	45.8	56.8	66.0	75.1	75.1	69.6	66.0	56.8	53.1
87.5°	12.8	11.0	14.7	14.7	12.8	14.7	14.7	16.5	16.5	16.5	16.5
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)