

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: P453438

Luminaire Tested: **GALN-SA4C-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24395 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

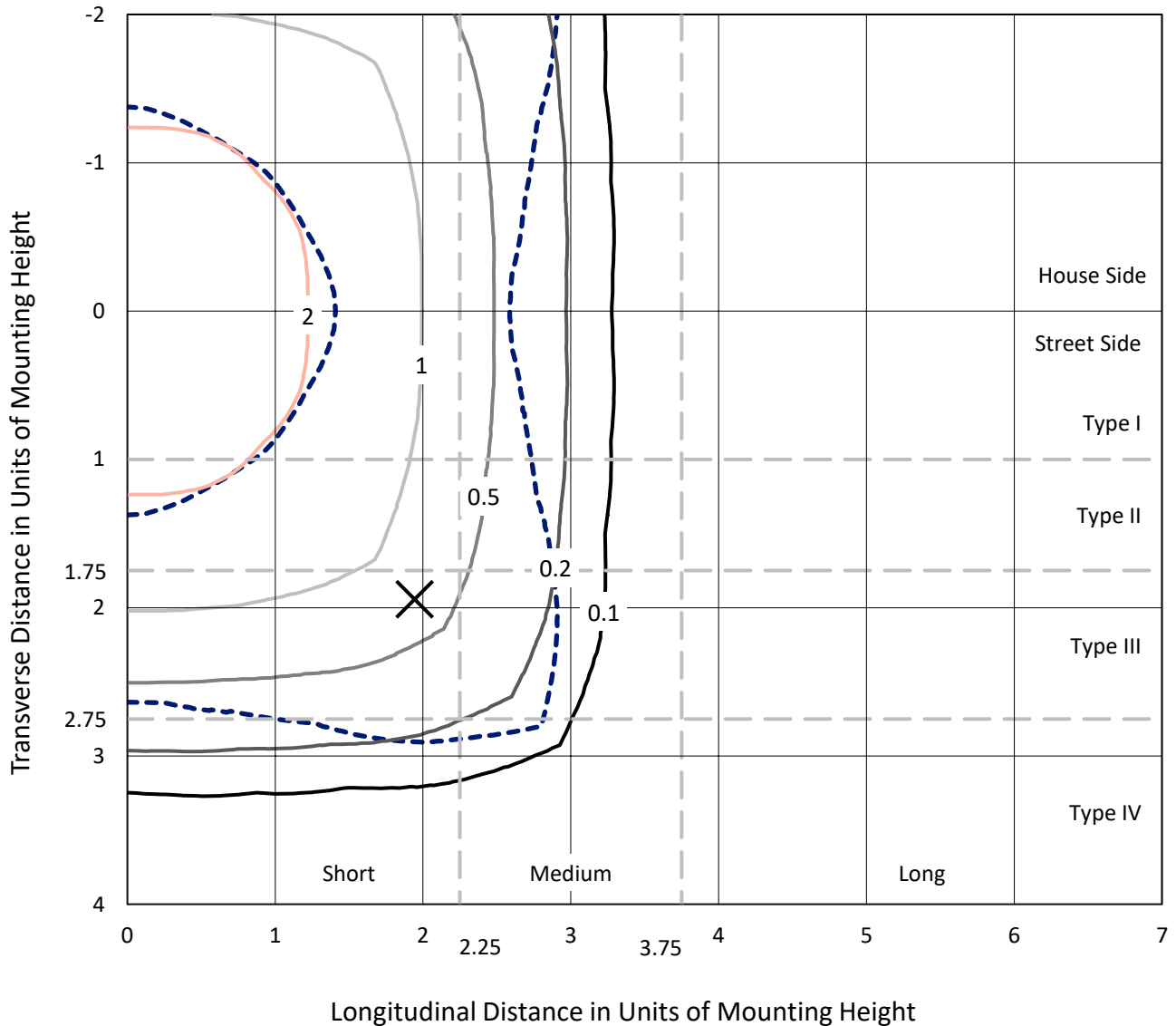
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

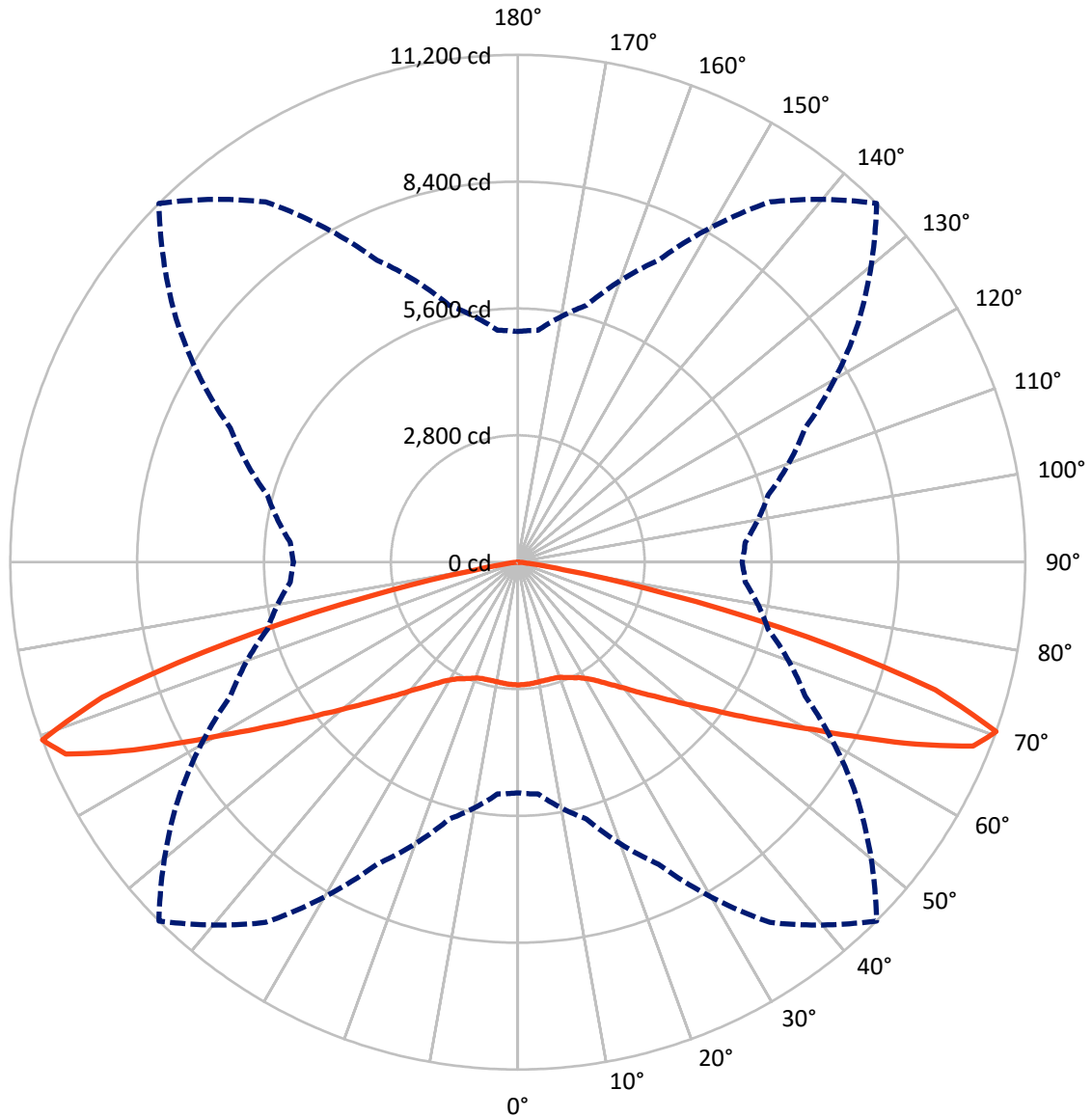
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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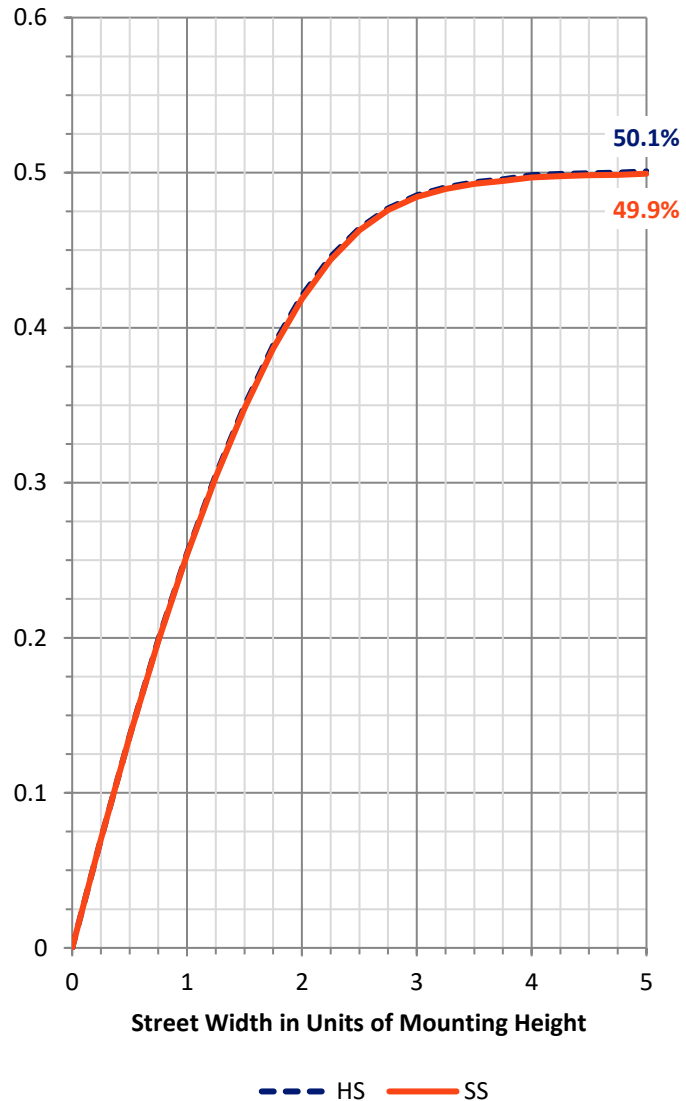
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12197.5	0.0	12197.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12197.5	0.0	12197.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24395.0	0.0	24395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	1.1
10°-20°	753.8	3.1
20°-30°	1289.2	5.3
30°-40°	2046.3	8.4
40°-50°	3301.3	13.5
50°-60°	5371.2	22.0
60°-70°	7786.3	31.9
70°-80°	3453.7	14.2
80°-90°	136.2	0.6
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°	24395.0	100.0
0°-180°	24395.0	100.0

Coefficient of Utilization



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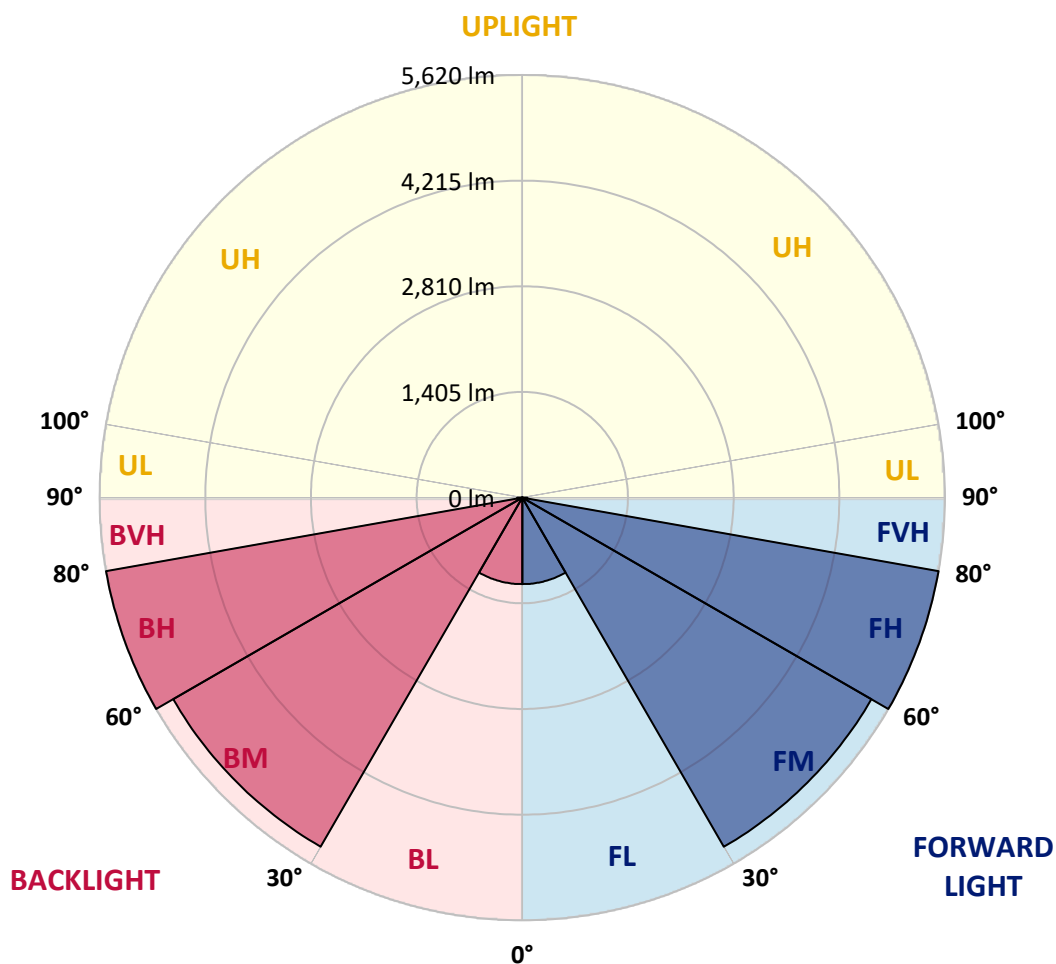
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.0	4.7			
FM (30°-60°)	5359.4	22.0			
FH (60°-80°)	5620.0	23.0			G3/7500
FVH (80°-90°)	68.1	0.3			G1/100
BL (0°-30°)	1150.0	4.7	B3/2500		
BM (30°-60°)	5359.4	22.0	B4/8500		
BH (60°-80°)	5620.0	23.0	B5		G3/7500
BVH (80°-90°)	68.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9
2.5°	2708.9	2711.5	2707.7	2705.1	2703.8	2703.8	2702.5	2703.8	2711.5	2712.8	2708.9
5°	2701.2	2703.8	2702.5	2699.9	2698.7	2698.7	2697.4	2696.1	2702.5	2705.1	2703.8
7.5°	2691.0	2692.2	2691.0	2689.7	2691.0	2689.7	2685.8	2683.2	2688.4	2688.4	2687.1
10°	2673.0	2675.5	2674.2	2675.5	2678.1	2678.1	2673.0	2667.8	2669.1	2666.5	2666.5
12.5°	2651.1	2655.0	2656.2	2661.4	2667.8	2675.5	2664.0	2652.4	2649.8	2648.5	2647.2
15°	2637.0	2640.8	2646.0	2651.1	2662.7	2679.4	2662.7	2644.7	2639.5	2634.4	2631.8
17.5°	2633.1	2638.2	2646.0	2653.7	2669.1	2685.8	2671.7	2653.7	2640.8	2633.1	2630.5
20°	2643.4	2647.2	2658.8	2673.0	2694.8	2711.5	2697.4	2678.1	2658.8	2647.2	2643.4
22.5°	2664.0	2670.4	2684.5	2710.2	2741.1	2765.5	2746.2	2714.1	2683.2	2667.8	2662.7
25°	2708.9	2714.1	2730.8	2765.5	2801.5	2824.7	2804.1	2766.8	2724.4	2703.8	2697.4
27.5°	2777.1	2784.8	2802.8	2843.9	2873.5	2886.4	2872.2	2846.5	2815.7	2793.8	2788.7
30°	2873.5	2882.5	2909.5	2953.2	2972.5	2980.2	2973.8	2957.1	2935.2	2912.1	2906.9
32.5°	3003.4	3008.5	3039.4	3080.5	3098.5	3101.1	3093.4	3085.7	3049.7	3011.1	3008.5
35°	3148.7	3157.7	3194.9	3243.8	3260.5	3261.8	3246.4	3234.8	3192.4	3161.5	3161.5
37.5°	3341.5	3345.4	3381.4	3436.7	3454.7	3449.5	3441.8	3431.5	3386.5	3346.7	3347.9
40°	3567.8	3575.5	3606.4	3670.6	3670.6	3664.2	3669.4	3661.6	3616.6	3578.1	3579.4
42.5°	3836.5	3840.4	3877.6	3945.8	3940.6	3927.8	3932.9	3922.6	3894.4	3850.6	3835.2
45°	4123.2	4138.6	4202.9	4268.5	4258.2	4217.1	4237.6	4235.1	4209.4	4143.8	4147.6
47.5°	4469.1	4494.8	4556.5	4634.9	4623.3	4559.1	4582.2	4597.6	4561.6	4489.6	4476.8
50°	4858.6	4875.3	4966.6	5039.9	5029.6	4961.5	5014.2	5016.8	4926.8	4825.2	4825.2
52.5°	5273.9	5290.6	5414.0	5528.5	5534.9	5435.9	5478.3	5475.8	5329.2	5195.5	5169.8
55°	5739.3	5747.0	5906.5	6074.9	6110.9	6014.5	6019.6	5968.2	5777.9	5622.3	5608.2
57.5°	6220.2	6248.5	6424.6	6643.2	6749.9	6690.7	6663.7	6526.2	6342.3	6163.6	6154.6
60°	6752.4	6753.7	6982.6	7241.0	7457.0	7496.9	7386.3	7202.4	6964.6	6728.0	6717.7
62.5°	7121.4	7176.7	7466.0	7903.1	8290.1	8513.8	8222.0	7836.3	7368.3	6986.4	6947.9
65°	7197.3	7234.6	7675.6	8416.1	9206.8	9689.0	9014.0	8193.7	7395.3	6886.2	6860.4
67.5°	6584.0	6623.9	7217.9	8354.4	9849.7	10838.4	9528.3	8021.4	6937.6	6307.6	6257.5
70°	5092.6	5137.6	5871.7	7354.1	9707.0	11199.6	9161.8	6996.7	5721.3	5041.2	4949.9
72.5°	2707.7	2873.5	3500.9	5047.6	7878.7	9642.7	7512.3	5105.5	3689.9	3016.2	2895.4
75°	988.7	1009.3	1359.0	2238.4	4583.5	6612.3	4759.6	2435.1	1400.1	1081.3	1026.0
77.5°	408.8	407.6	447.4	676.3	1665.0	3386.5	1857.8	714.8	446.1	412.7	407.6
80°	241.7	241.7	266.1	281.6	438.4	1022.1	489.8	318.9	267.4	244.3	248.1
82.5°	108.0	114.4	168.4	177.4	212.1	280.3	236.6	203.1	174.9	120.9	109.3
85°	59.1	51.4	88.7	92.6	101.6	104.1	111.9	110.6	101.6	59.1	60.4
87.5°	11.6	14.1	25.7	19.3	21.9	19.3	25.7	36.0	37.3	20.6	16.7
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)