

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: P529339

Luminaire Tested: **GALN-SA4C-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15201 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

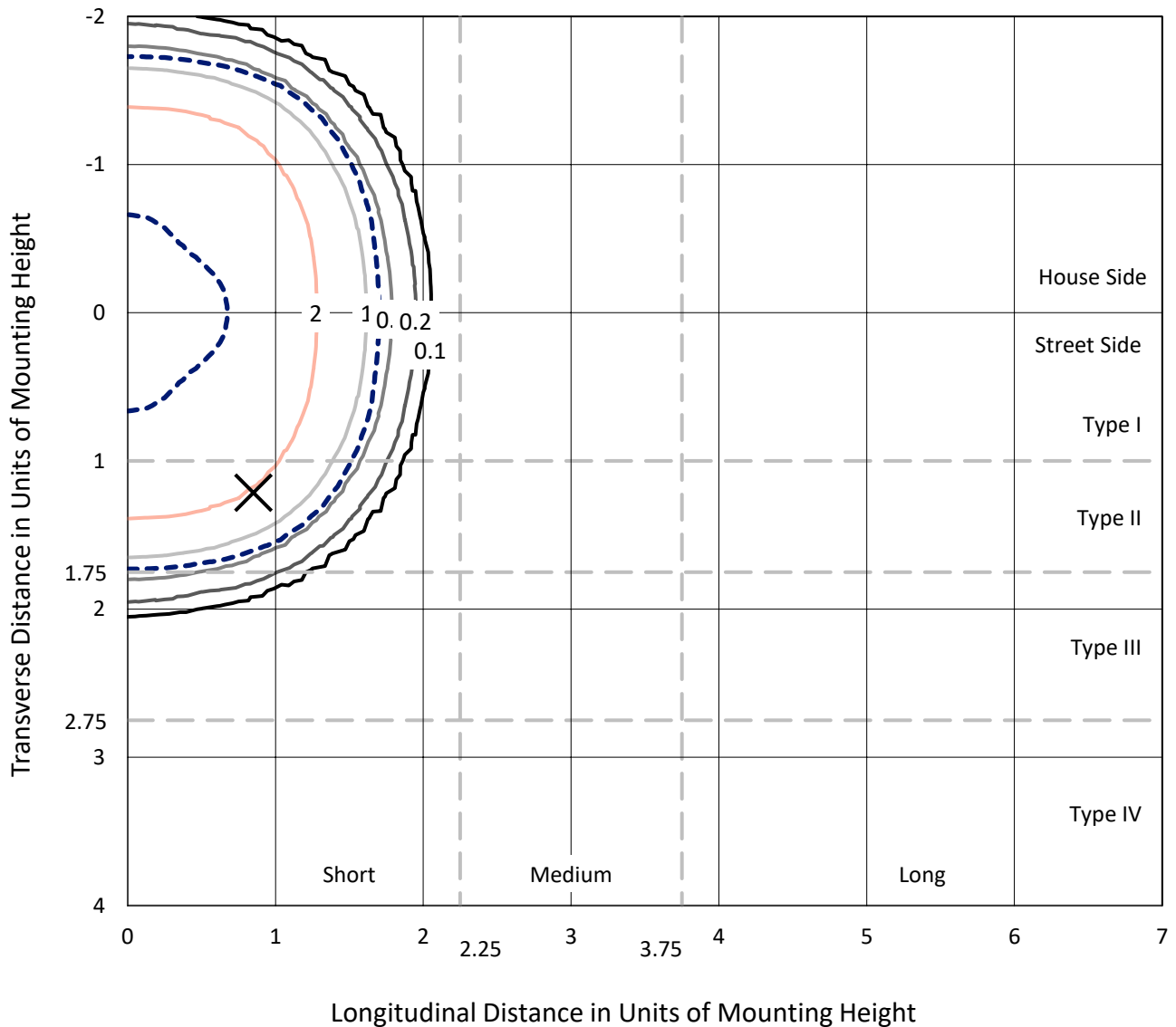
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

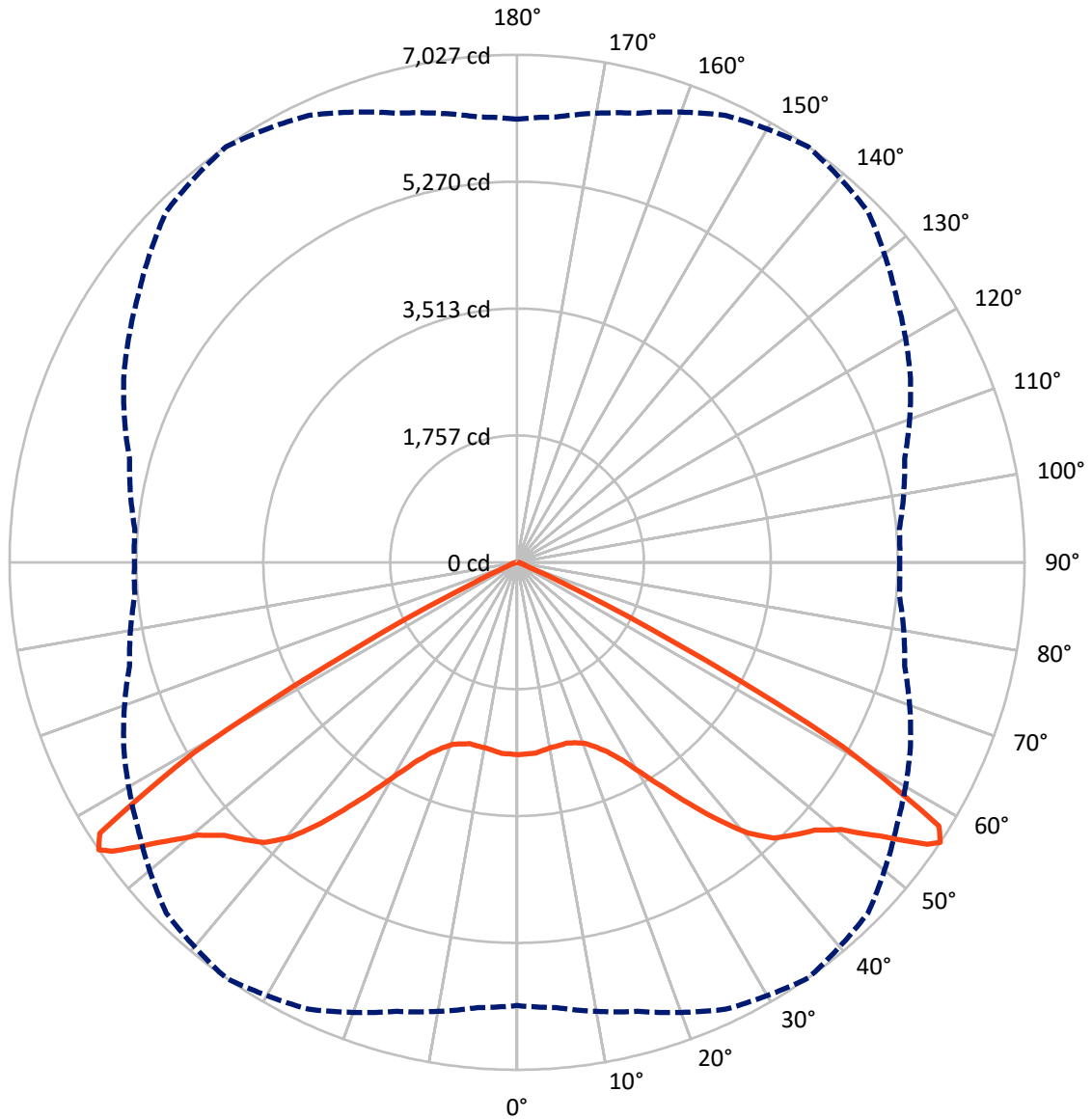
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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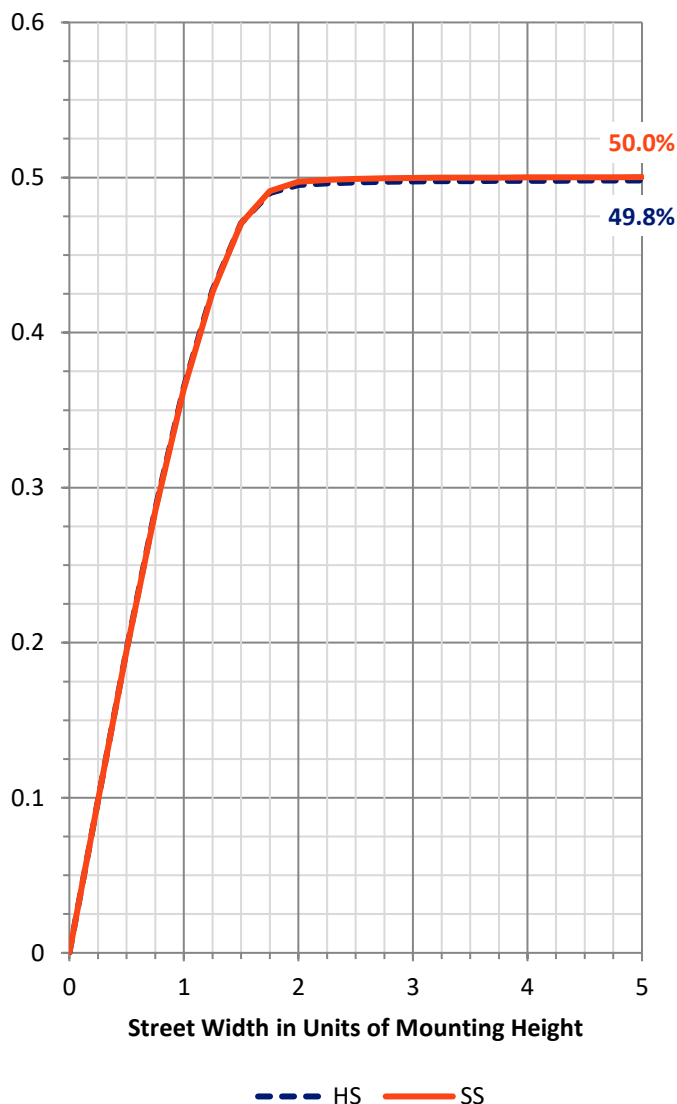
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7600.5	0.0	7600.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7600.5	0.0	7600.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15201.0	0.0	15201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	1.6
10°-20°	730.8	4.8
20°-30°	1323.5	8.7
30°-40°	2454.2	16.1
40°-50°	4028.4	26.5
50°-60°	5189.7	34.1
60°-70°	1143.8	7.5
70°-80°	66.4	0.4
80°-90°	14.0	0.1
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°	15201.0	100.0
0°-180°	15201.0	100.0

Coefficient of Utilization

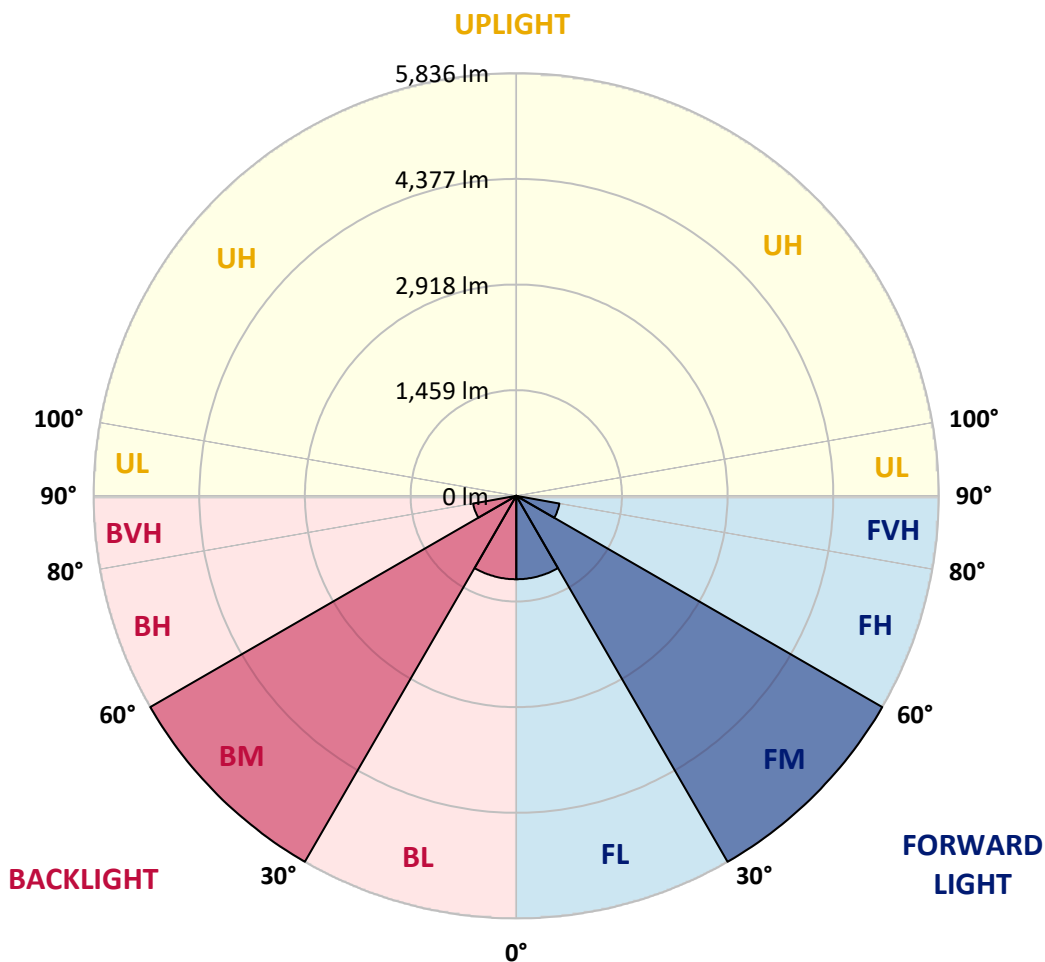


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.3	7.6			
FM (30°-60°)	5836.1	38.4			
FH (60°-80°)	605.1	4.0			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	1152.3	7.6	B3/2500		
BM (30°-60°)	5836.1	38.4	B4/8500		
BH (60°-80°)	605.1	4.0	B2/1000		G0/660
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5
2.5°	2669.1	2669.1	2671.8	2674.6	2655.3	2647.0	2649.8	2644.3	2641.5	2649.8	2649.8
5°	2660.8	2660.8	2652.5	2655.3	2655.3	2630.5	2630.5	2636.0	2636.0	2619.5	2614.0
7.5°	2638.8	2633.2	2622.2	2636.0	2627.7	2627.7	2608.5	2594.7	2589.2	2600.2	2589.2
10°	2591.9	2594.7	2605.7	2611.2	2605.7	2622.2	2589.2	2569.9	2550.6	2542.3	2542.3
12.5°	2569.9	2586.4	2569.9	2583.7	2602.9	2589.2	2569.9	2556.1	2528.6	2517.6	2517.6
15°	2567.1	2578.2	2583.7	2602.9	2594.7	2600.2	2561.6	2545.1	2503.8	2484.5	2476.2
17.5°	2564.4	2578.2	2586.4	2622.2	2627.7	2630.5	2600.2	2550.6	2514.8	2495.5	2476.2
20°	2594.7	2600.2	2616.7	2652.5	2674.6	2713.1	2658.0	2605.7	2528.6	2506.5	2498.3
22.5°	2633.2	2660.8	2677.3	2715.9	2773.7	2806.8	2735.2	2669.1	2589.2	2561.6	2528.6
25°	2757.2	2751.7	2779.2	2859.1	2905.9	2930.7	2872.9	2776.5	2671.8	2638.8	2644.3
27.5°	2911.4	2917.0	2941.7	3029.9	3098.7	3137.3	3068.4	2941.7	2839.8	2784.7	2779.2
30°	3112.5	3107.0	3134.6	3253.0	3376.9	3434.8	3313.6	3164.8	3065.7	2994.1	3010.6
32.5°	3324.6	3327.4	3404.5	3511.9	3713.0	3825.9	3630.4	3448.6	3299.8	3250.2	3225.4
35°	3638.6	3652.4	3713.0	3878.2	4101.4	4247.3	4032.5	3814.9	3644.1	3553.2	3564.2
37.5°	4027.0	4013.2	4115.1	4294.2	4528.3	4635.7	4453.9	4206.0	4032.5	3971.9	4010.5
40°	4440.2	4453.9	4506.3	4668.8	4930.4	5002.1	4732.1	4597.2	4445.7	4415.4	4462.2
42.5°	4853.3	4845.1	4883.6	5029.6	5219.7	5170.1	5010.3	4930.4	4823.0	4762.4	4825.8
45°	5156.3	5142.5	5214.2	5313.3	5382.2	5288.5	5216.9	5189.4	5134.3	5068.2	5126.0
47.5°	5451.0	5440.0	5508.9	5536.4	5541.9	5418.0	5431.8	5481.3	5343.6	5205.9	5272.0
50°	5701.7	5682.4	5767.8	5828.4	5814.6	5616.3	5665.9	5616.3	5401.5	5238.9	5214.2
52.5°	6120.4	6128.6	6219.5	6329.7	6296.6	6131.4	6059.8	5833.9	5558.5	5412.5	5327.1
55°	6384.8	6343.5	6500.5	6850.3	6888.9	6718.1	6401.3	6068.0	5654.9	5475.8	5453.8
56°	6136.9	6189.2	6437.1	6828.3	7026.6	6869.6	6409.6	6010.2	5555.7	5313.3	5296.8
57.5°	5506.1	5478.6	5814.6	6349.0	6888.9	6822.7	6183.7	5597.0	5068.2	4795.5	4762.4
60°	3426.5	3506.4	3801.1	4462.2	5183.9	5216.9	4583.4	4079.3	3462.3	3219.9	3277.8
62.5°	1341.4	1272.6	1457.1	1950.1	2445.9	2556.1	2316.5	1925.4	1581.0	1341.4	1324.9
65°	311.3	303.0	341.6	471.0	658.3	763.0	724.4	520.6	382.9	363.6	336.0
67.5°	176.3	176.3	168.0	168.0	184.5	195.6	187.3	184.5	192.8	201.1	198.3
70°	123.9	121.2	115.7	118.4	112.9	112.9	121.2	135.0	146.0	146.0	148.7
72.5°	74.4	74.4	74.4	82.6	82.6	82.6	90.9	101.9	104.7	101.9	99.2
75°	33.1	33.1	38.6	46.8	52.3	55.1	63.4	68.9	74.4	68.9	63.4
77.5°	8.3	8.3	13.8	19.3	24.8	30.3	41.3	49.6	52.3	49.6	41.3
80°	2.8	2.8	5.5	13.8	24.8	30.3	41.3	44.1	46.8	41.3	33.1
82.5°	2.8	2.8	5.5	13.8	19.3	24.8	33.1	38.6	41.3	35.8	33.1
85°	0.0	2.8	5.5	11.0	16.5	22.0	22.0	16.5	13.8	8.3	11.0
87.5°	0.0	0.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)