

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: P458924

Luminaire Tested: **GALN-SA4C-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26730 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

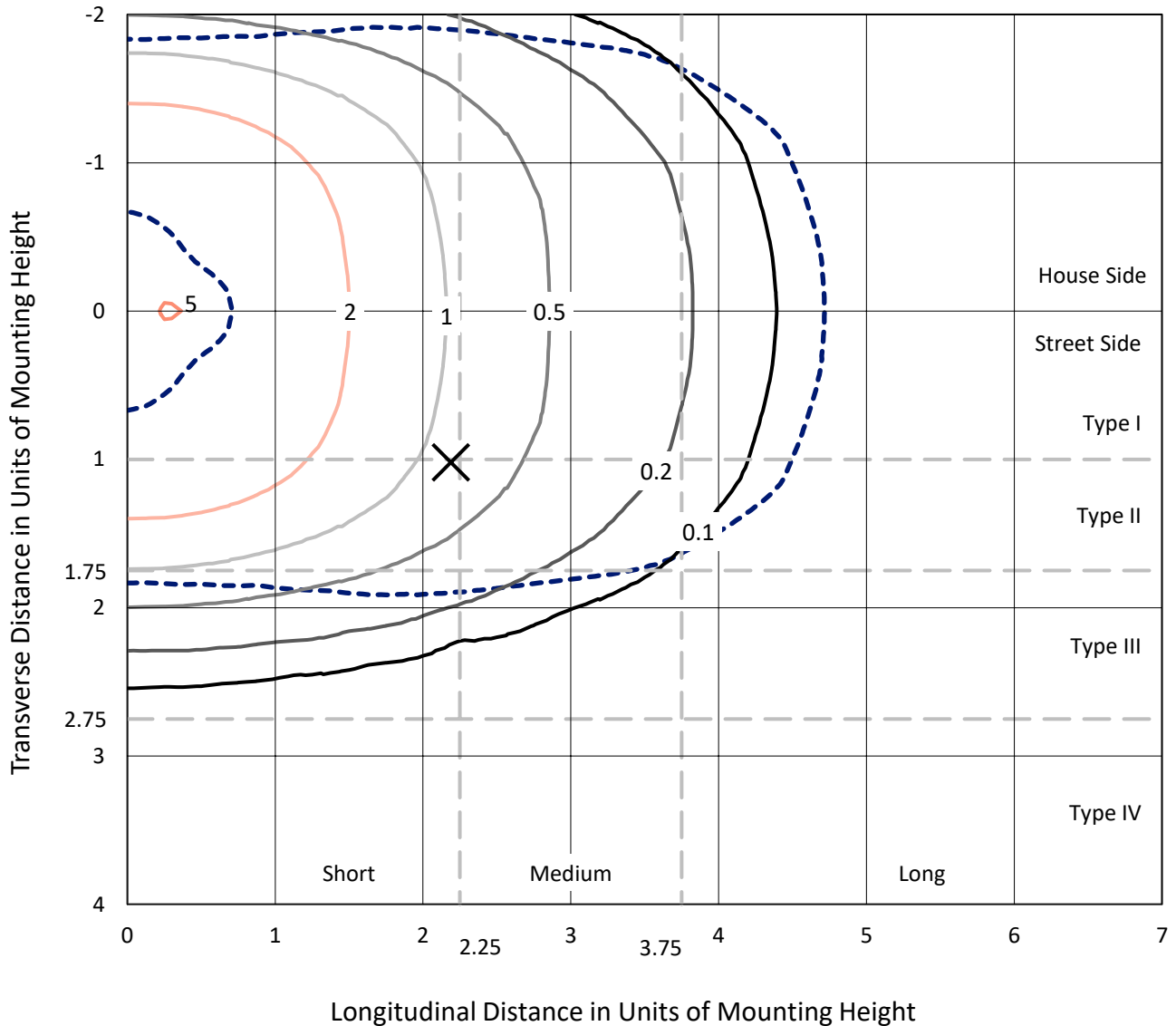
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

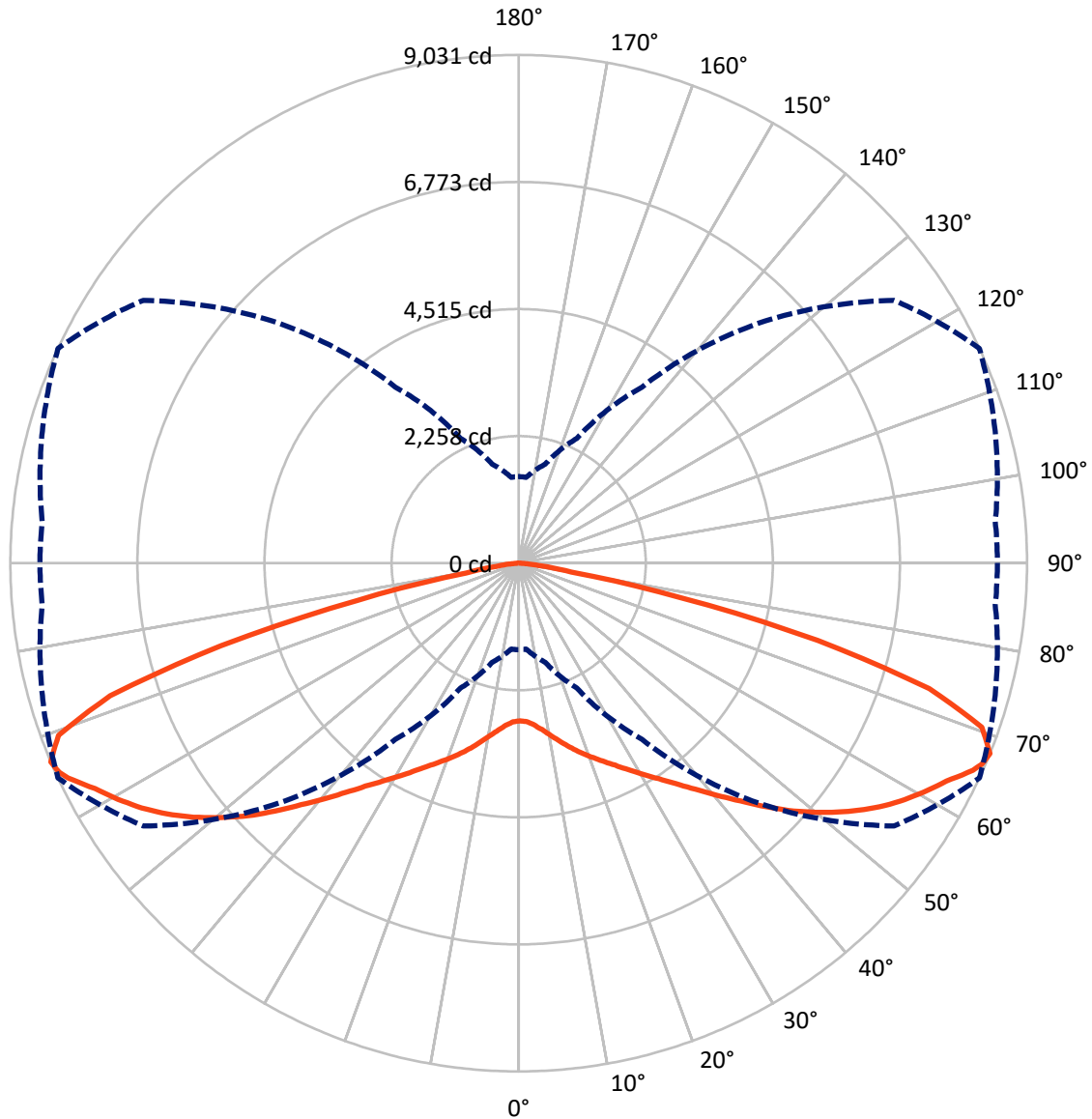
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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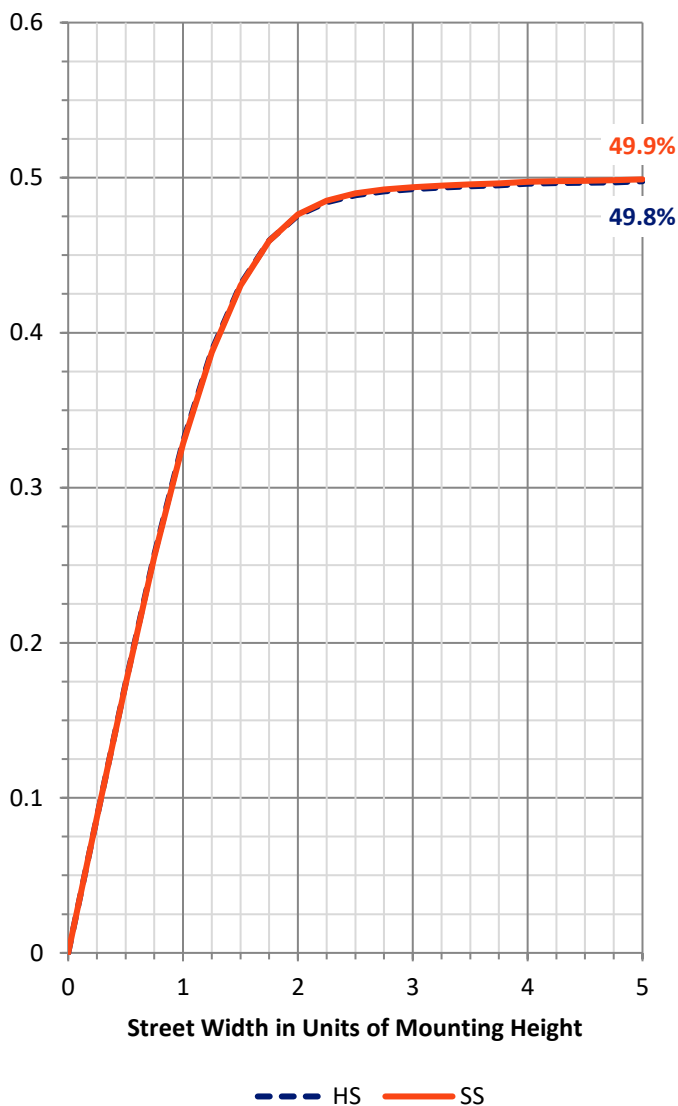
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13365.0	0.0	13365.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13365.0	0.0	13365.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26730.0	0.0	26730.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.1	1.0
10°-20°	924.2	3.5
20°-30°	1807.8	6.8
30°-40°	3074.8	11.5
40°-50°	4866.4	18.2
50°-60°	6452.8	24.1
60°-70°	6087.0	22.8
70°-80°	3009.1	11.3
80°-90°	231.9	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°	26730.0	100.0
0°-180°	26730.0	100.0

**Coefficient of Utilization**



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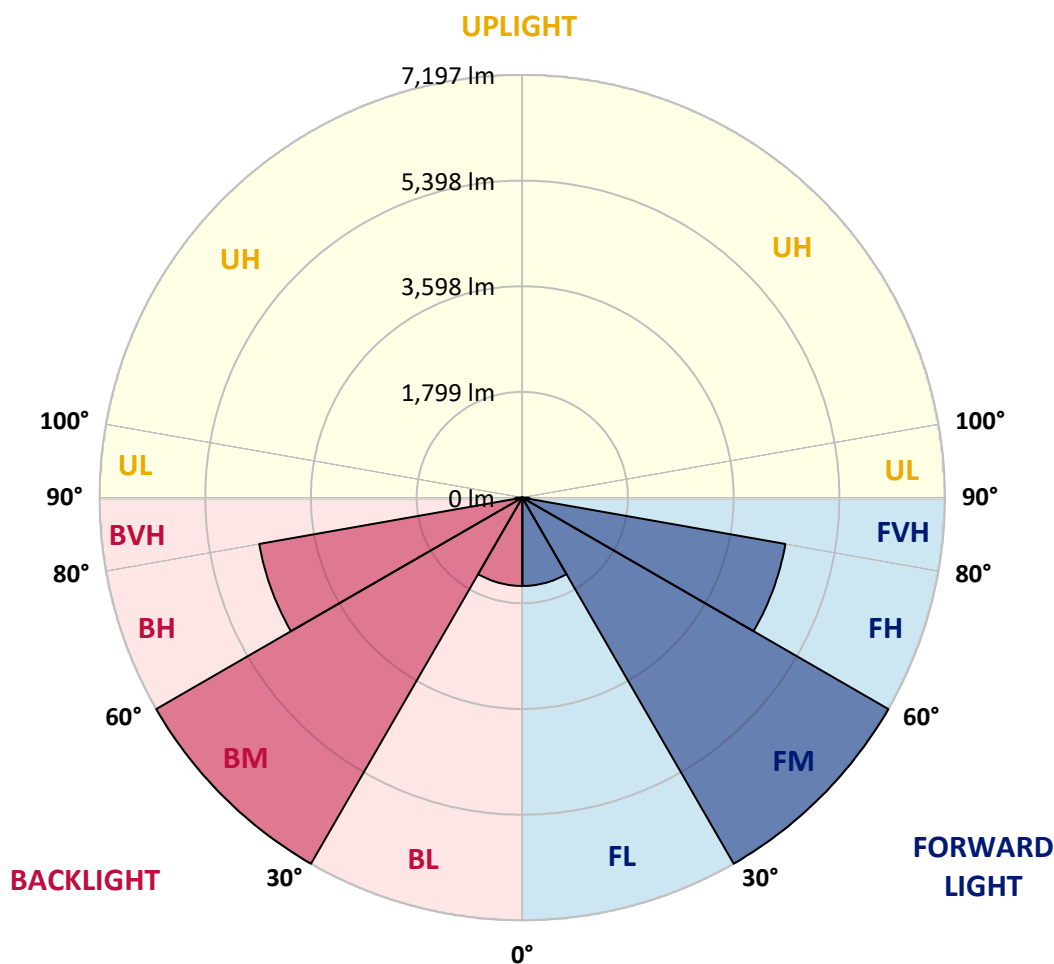
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1504.0	5.6			
FM	(30°-60°)	7197.0	26.9			
FH	(60°-80°)	4548.0	17.0			G2/5000
FVH	(80°-90°)	115.9	0.4			G2/225
BL	(0°-30°)	1504.0	5.6	B3/2500		
BM	(30°-60°)	7197.0	26.9	B4/8500		
BH	(60°-80°)	4548.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	115.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2799.7	2799.7	2799.7	2799.7	2799.7	2799.7	2799.7	2799.7	2799.7	2799.7	2799.7
2.5°	2785.4	2788.3	2791.1	2795.4	2801.2	2809.8	2815.5	2819.8	2831.2	2832.7	2831.2
5°	2775.4	2778.3	2785.4	2798.3	2816.9	2842.7	2862.7	2887.1	2905.7	2918.6	2915.7
7.5°	2774.0	2779.7	2791.1	2818.3	2854.2	2898.5	2944.4	2985.9	3021.7	3050.3	3046.1
10°	2796.9	2804.0	2822.6	2862.7	2918.6	2983.0	3047.5	3109.1	3160.6	3197.9	3210.7
12.5°	2835.5	2841.3	2875.6	2935.8	3016.0	3096.2	3169.2	3245.1	3316.7	3379.7	3379.7
15°	2902.8	2912.9	2955.8	3043.2	3142.0	3235.1	3309.6	3389.8	3467.1	3538.7	3560.2
17.5°	2995.9	3010.2	3074.7	3186.4	3312.4	3398.3	3468.5	3534.4	3601.7	3670.4	3680.5
20°	3123.4	3137.7	3223.6	3358.2	3507.2	3610.3	3657.6	3673.3	3706.2	3772.1	3780.7
22.5°	3296.7	3311.0	3406.9	3558.7	3724.9	3836.6	3856.6	3819.4	3810.8	3862.3	3868.1
25°	3492.9	3505.8	3616.0	3779.3	3951.1	4072.9	4067.1	3975.5	3923.9	3955.4	3964.0
27.5°	3713.4	3732.0	3843.7	4012.7	4198.9	4306.3	4289.1	4155.9	4045.6	4039.9	4042.8
30°	3995.5	4015.6	4121.5	4283.4	4466.7	4565.5	4529.7	4350.7	4180.3	4123.0	4123.0
32.5°	4293.4	4343.5	4450.9	4619.9	4763.1	4834.7	4780.3	4565.5	4339.2	4259.0	4254.7
35°	4681.5	4708.7	4814.7	4979.4	5086.8	5142.6	5038.1	4807.5	4546.9	4452.4	4439.5
37.5°	5061.0	5083.9	5207.1	5364.6	5494.9	5492.1	5350.3	5095.4	4804.7	4698.7	4690.1
40°	5449.1	5473.4	5613.8	5758.4	5888.7	5877.3	5705.4	5420.5	5111.1	4992.3	5015.2
42.5°	5785.6	5812.8	5971.8	6178.0	6295.5	6292.6	6093.5	5772.7	5450.5	5344.6	5364.6
45°	6092.1	6116.4	6301.2	6537.5	6709.3	6730.8	6513.1	6173.7	5842.9	5706.9	5712.6
47.5°	6308.3	6354.2	6547.5	6818.2	7051.6	7127.5	6914.1	6581.9	6200.9	6059.2	6067.8
50°	6473.0	6501.7	6712.2	7020.1	7315.1	7472.6	7300.8	6959.9	6559.0	6408.6	6428.6
52.5°	6493.1	6527.5	6756.6	7111.7	7489.8	7729.0	7644.5	7329.4	6924.1	6769.5	6812.4
55°	6329.8	6349.9	6623.4	7054.5	7558.6	7919.4	7940.9	7673.1	7272.1	7154.7	7183.4
57.5°	5864.4	5916.0	6262.5	6786.7	7464.0	8021.1	8162.9	7985.3	7624.4	7508.4	7554.3
60°	5101.1	5152.7	5500.6	6165.1	7107.5	7973.9	8346.2	8261.7	7943.8	7850.7	7875.1
62.5°	3997.0	3992.7	4423.7	5238.6	6398.6	7741.9	8482.3	8528.1	8258.9	8141.4	8178.7
65°	2590.6	2603.5	3020.3	3898.1	5328.8	7151.8	8512.3	8867.5	8568.2	8390.6	8417.8
66°	2083.7	2122.4	2476.1	3285.2	4783.2	6765.2	8422.1	8967.7	8662.7	8447.9	8460.8
67.5°	1538.1	1530.9	1821.6	2446.0	3819.4	6030.5	8140.0	9030.7	8770.1	8499.4	8505.2
70°	877.9	876.4	979.5	1343.3	2245.5	4246.1	6861.1	8728.6	8987.8	8685.6	8669.9
72.5°	641.6	637.3	651.6	741.8	1095.5	2143.8	4733.1	7628.7	8876.1	8655.5	8611.1
75°	538.5	535.6	532.7	544.2	614.4	971.0	2511.9	5487.8	7701.8	8124.2	8078.4
77.5°	439.7	439.7	441.1	438.2	441.1	511.3	1041.1	2941.5	4690.1	5235.7	5363.2
80°	343.7	342.3	366.6	356.6	333.7	327.9	461.1	946.6	1556.7	1548.1	1277.4
82.5°	253.5	236.3	279.3	272.1	246.3	209.1	269.2	403.8	519.8	338.0	250.6
85°	160.4	159.0	197.6	180.4	150.4	98.8	128.9	173.3	214.8	130.3	106.0
87.5°	28.6	27.2	63.0	45.8	45.8	28.6	35.8	47.3	70.2	48.7	35.8
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)