

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: P647146

Luminaire Tested: **GALN-SA9C-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-835-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34282.9 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

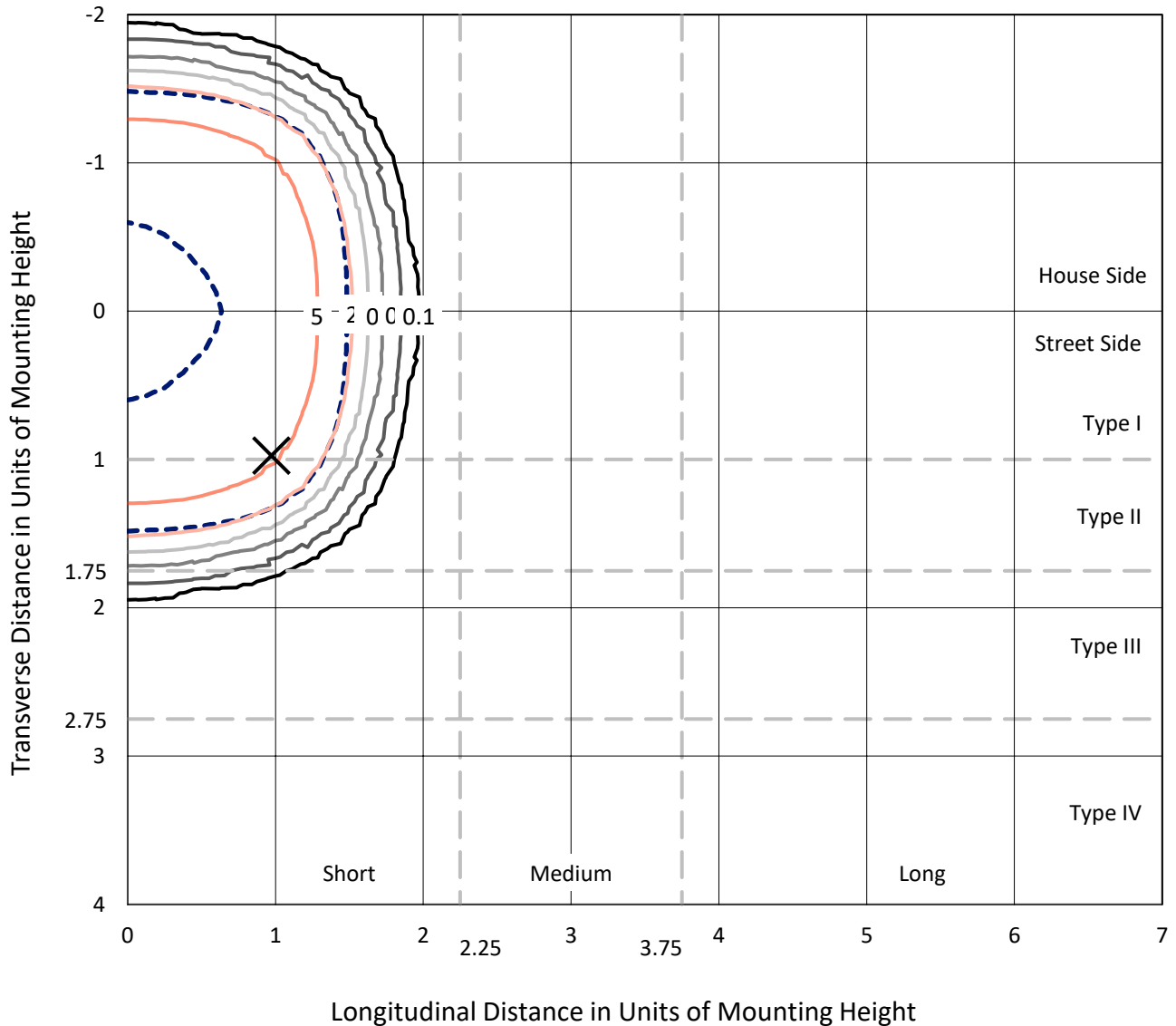
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

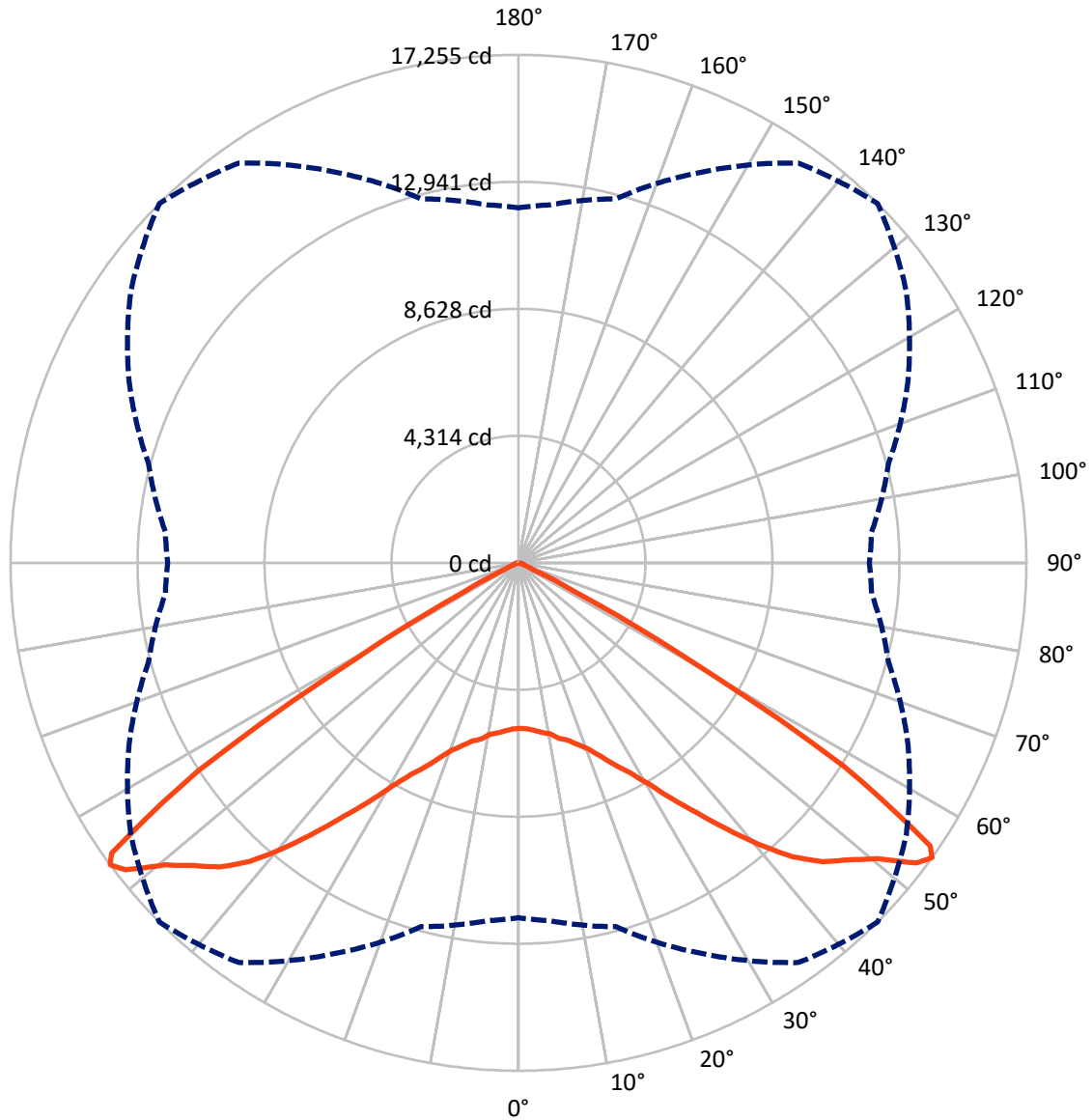
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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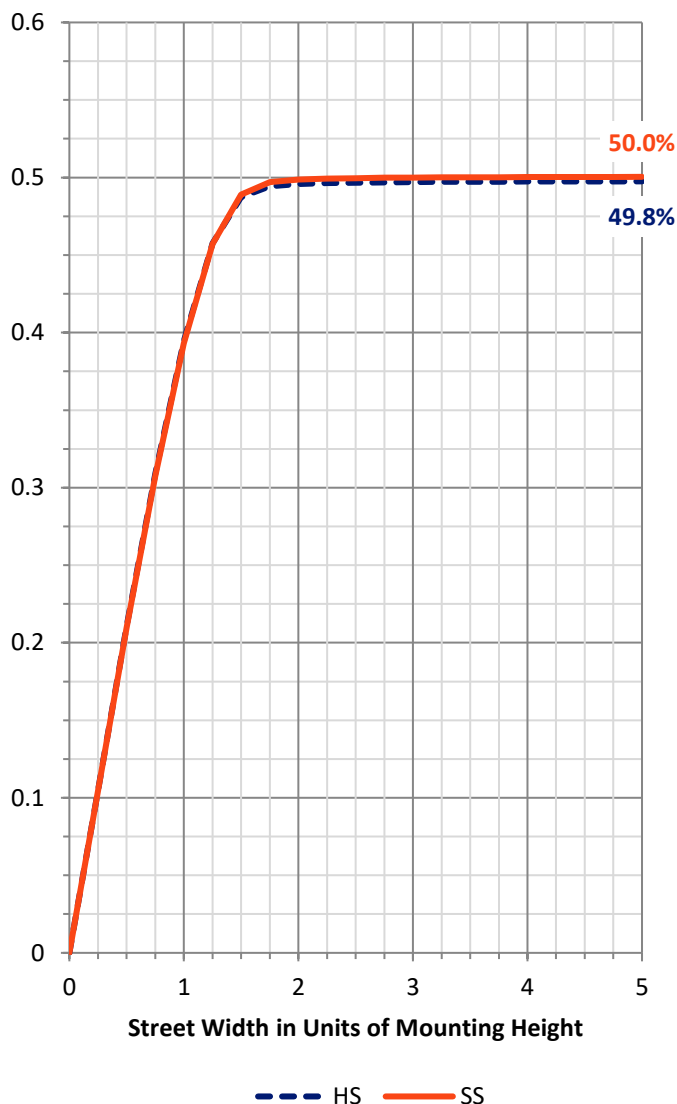
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17141.4	0.0	17141.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17141.4	0.0	17141.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34282.9	0.0	34282.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.2	1.6
10°-20°	1781.7	5.2
20°-30°	3492.1	10.2
30°-40°	6279.5	18.3
40°-50°	10749.3	31.4
50°-60°	10401.0	30.3
60°-70°	890.4	2.6
70°-80°	105.5	0.3
80°-90°	33.1	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°	34282.9	100.0
0°-180°	34282.9	100.0

**Coefficient of Utilization**



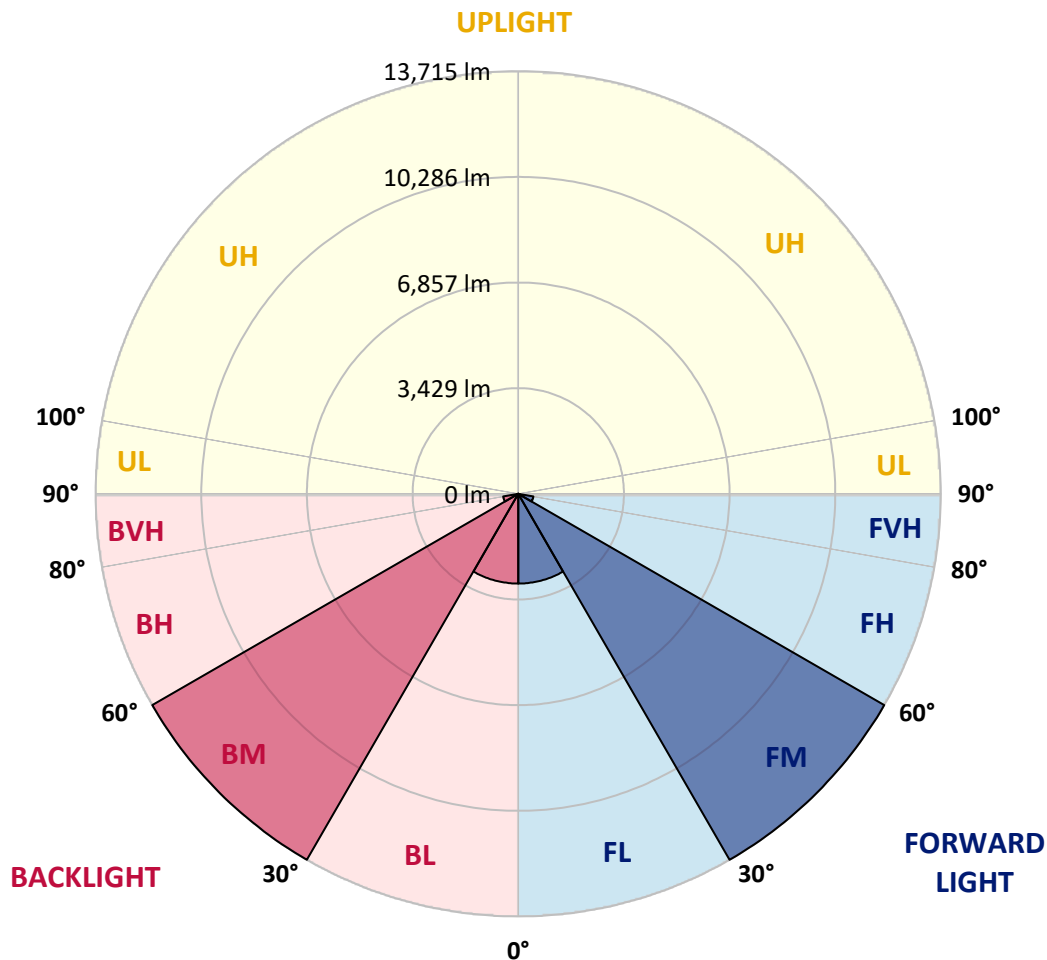
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.0	8.5			
FM (30°-60°)	13714.9	40.0			
FH (60°-80°)	498.0	1.5			G0/660
FVH (80°-90°)	16.6	0.0			G1/100
BL (0°-30°)	2912.0	8.5	B4/5000		
BM (30°-60°)	13714.9	40.0	B5		
BH (60°-80°)	498.0	1.5	B1/500		G0/660
BVH (80°-90°)	16.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5621.3	5621.3	5621.3	5621.3	5621.3	5621.3	5621.3	5621.3	5621.3	5621.3	5621.3
2.5°	5648.5	5681.1	5659.4	5675.7	5675.7	5648.5	5664.8	5599.6	5643.1	5610.4	5615.9
5°	5735.4	5729.9	5729.9	5735.4	5713.6	5724.5	5702.8	5681.1	5664.8	5643.1	5708.2
7.5°	5844.0	5844.0	5806.0	5816.8	5806.0	5822.3	5778.9	5735.4	5719.1	5702.8	5691.9
10°	5947.2	5936.3	5920.0	5968.9	5930.9	5909.1	5887.5	5860.3	5800.5	5778.9	5757.1
12.5°	6099.3	6093.9	6072.1	6121.0	6099.3	6121.0	6039.5	5968.9	5958.1	5887.5	5925.5
15°	6278.5	6327.3	6289.4	6289.4	6278.5	6251.3	6218.7	6186.2	6088.4	6061.3	6066.7
17.5°	6512.1	6495.8	6501.2	6501.2	6555.5	6484.9	6419.7	6338.2	6289.4	6273.1	6218.7
20°	6734.7	6756.4	6751.0	6789.0	6821.7	6745.6	6675.0	6664.1	6528.3	6550.0	6474.0
22.5°	7125.8	7109.5	7136.7	7163.8	7142.1	7131.2	7066.0	6984.6	6865.1	6810.8	6799.9
25°	7538.6	7511.4	7462.5	7527.7	7560.3	7609.1	7484.2	7440.8	7256.1	7174.6	7180.1
27.5°	7891.5	7929.6	7983.9	8011.0	8092.5	8076.3	7989.3	7848.2	7706.9	7614.6	7554.9
30°	8375.0	8396.7	8489.1	8527.0	8668.3	8706.3	8570.5	8407.5	8157.7	8038.2	7967.7
32.5°	8820.3	8972.4	8967.0	9157.0	9385.2	9542.7	9298.3	9048.4	8798.6	8657.4	8532.4
35°	9542.7	9515.5	9673.0	9873.9	10243.3	10422.5	10156.4	9868.5	9488.4	9260.2	9162.5
37.5°	10216.1	10227.0	10438.8	10759.3	11182.9	11459.9	11226.3	10753.8	10362.8	10069.5	9933.7
40°	11193.8	11215.5	11432.7	11796.6	12274.5	12573.3	12301.7	11823.8	11302.4	11074.3	11074.3
42.5°	12339.8	12432.1	12573.3	12888.3	13317.3	13648.7	13404.3	13029.5	12502.7	12209.4	12252.9
45°	13518.3	13561.8	13654.1	14121.2	14322.2	14485.1	14256.9	14083.2	13730.1	13371.7	13311.9
47.5°	14620.9	14637.2	14908.7	15055.4	15212.9	15077.1	15223.7	14995.6	14599.1	14251.5	14180.9
50°	15109.7	15082.5	15468.2	15913.5	16033.0	15794.0	15669.1	15517.0	14914.2	14495.9	14311.3
52.5°	13686.7	13844.2	14561.1	15799.5	16733.6	16934.6	16206.8	15506.1	14381.9	13567.2	13442.3
54°	12057.3	12204.0	12795.9	14631.8	16576.1	17255.0	16081.9	14593.7	13007.8	12041.1	11916.1
55°	10444.3	10281.3	11356.7	13230.5	15837.4	16972.6	15587.7	13415.1	11601.1	10715.8	10542.0
57.5°	5653.9	5681.1	6588.1	8358.7	11128.6	13013.2	11492.5	9075.6	6854.2	5860.3	5773.4
60°	1792.3	1835.7	2232.3	3378.3	5317.2	6349.1	5442.1	3644.3	2520.1	2020.5	1938.9
62.5°	559.5	581.1	635.5	945.0	1455.6	2080.2	1629.3	977.7	727.8	668.1	678.9
65°	342.2	342.2	347.6	369.3	434.5	505.1	488.8	429.1	412.8	401.9	396.5
67.5°	222.7	217.3	228.1	244.4	255.3	260.7	277.0	293.3	287.8	277.0	277.0
70°	135.8	130.4	141.2	162.9	168.3	179.2	195.5	217.3	211.8	200.9	206.4
72.5°	76.0	76.0	81.4	97.8	114.1	124.9	141.2	157.5	162.9	157.5	157.5
75°	27.2	32.6	43.5	59.7	70.6	86.9	103.2	119.5	135.8	124.9	119.5
77.5°	10.9	10.9	21.7	38.1	54.3	70.6	97.8	114.1	124.9	114.1	103.2
80°	5.4	5.4	16.3	32.6	48.9	65.1	81.4	97.8	103.2	92.3	81.4
82.5°	5.4	5.4	16.3	32.6	48.9	59.7	86.9	97.8	108.6	97.8	81.4
85°	0.0	5.4	16.3	32.6	43.5	48.9	48.9	32.6	27.2	16.3	16.3
87.5°	0.0	0.0	5.4	0.0	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)