

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: P647640

Luminaire Tested: **GALN-SA9D-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647640  
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-SA9D-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57592.8 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

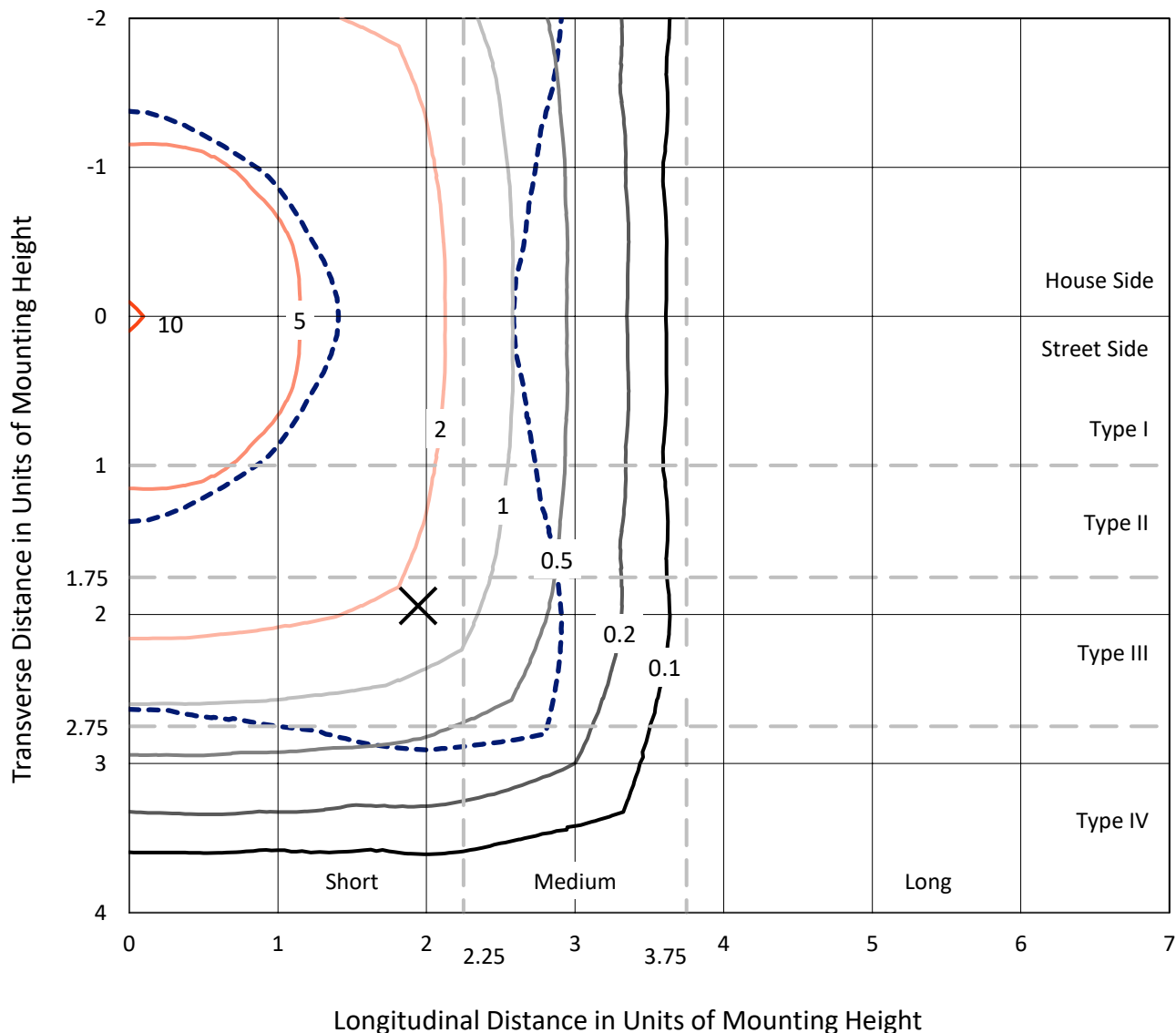
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

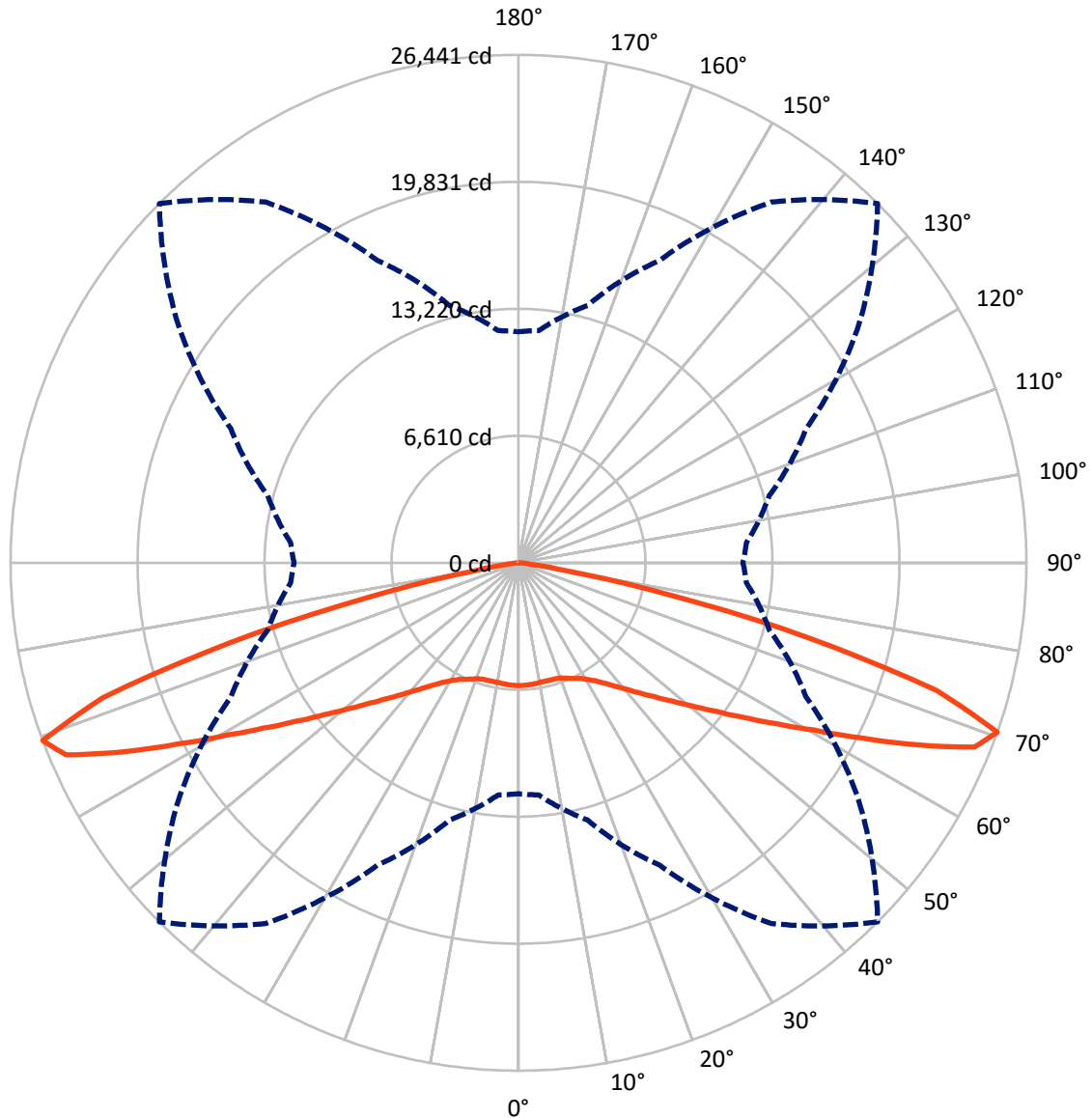
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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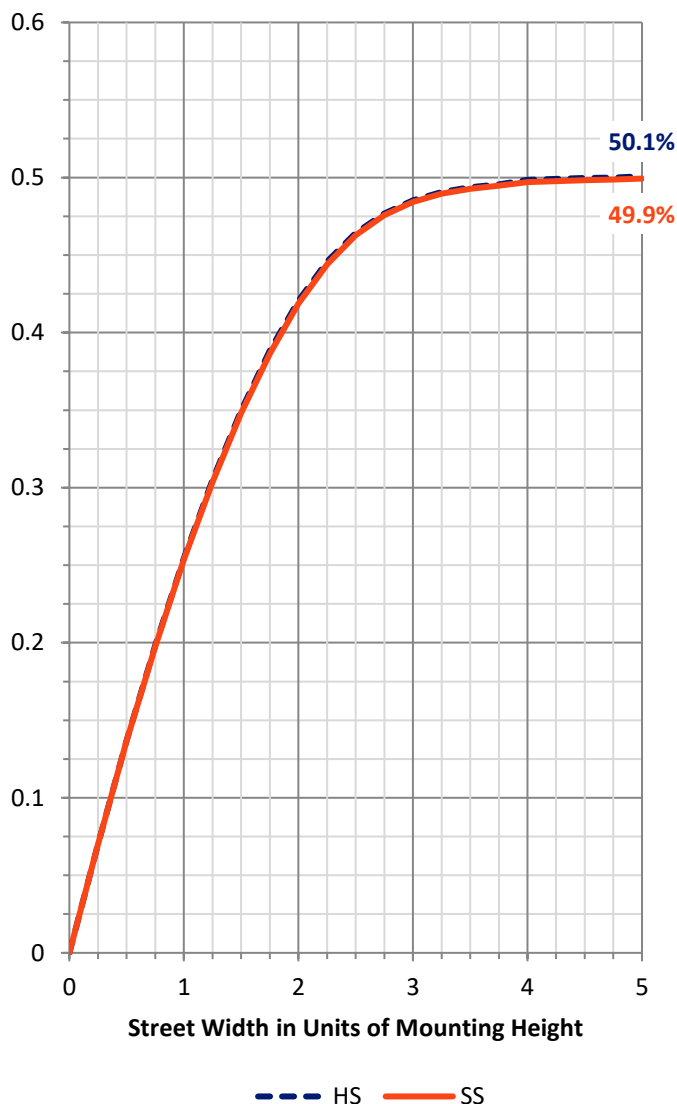
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28796.4	0.0	28796.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28796.4	0.0	28796.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	57592.8	0.0	57592.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.5	1.1
10°-20°	1779.7	3.1
20°-30°	3043.7	5.3
30°-40°	4831.0	8.4
40°-50°	7793.7	13.5
50°-60°	12680.6	22.0
60°-70°	18382.3	31.9
70°-80°	8153.7	14.2
80°-90°	321.6	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°	57592.8	100.0
0°-180°	57592.8	100.0

**Coefficient of Utilization**

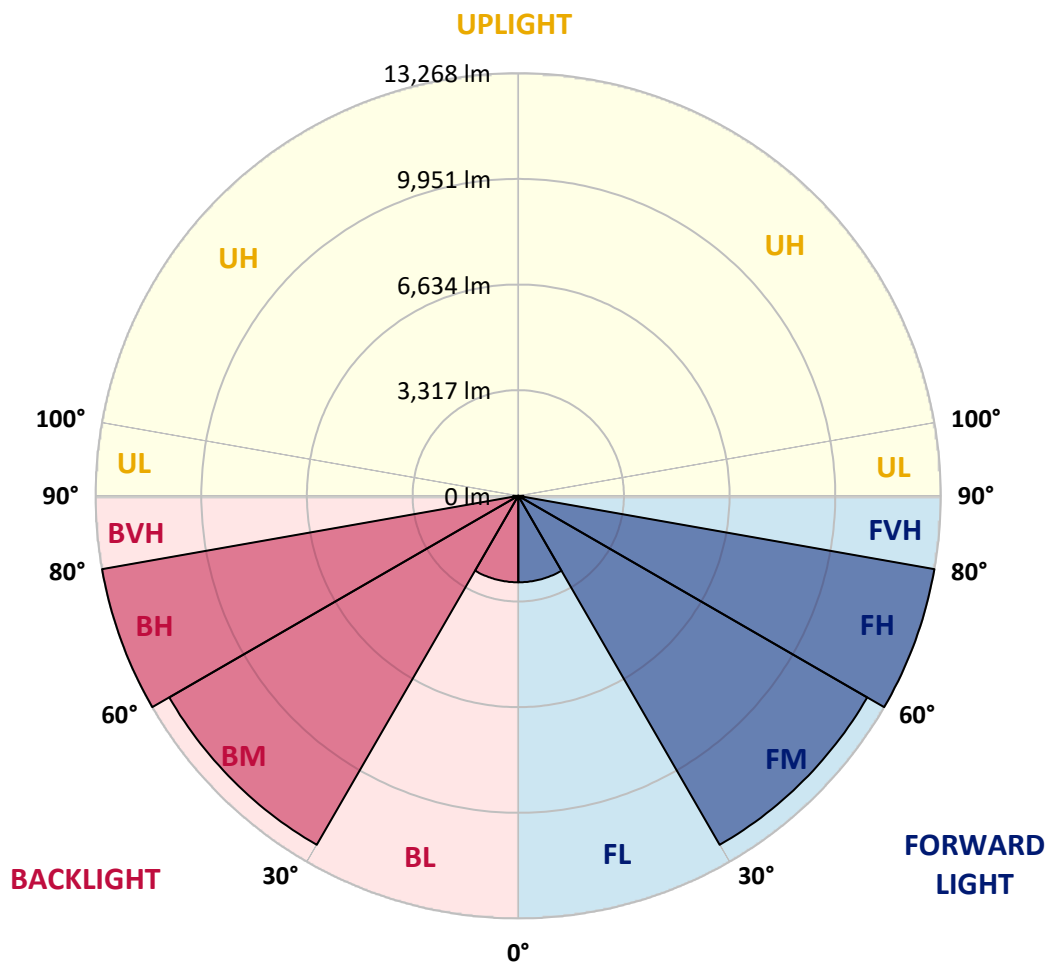


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2714.9	4.7			
FM (30°-60°)	12652.7	22.0			
FH (60°-80°)	13268.0	23.0			G5
FVH (80°-90°)	160.8	0.3			G2/225
BL (0°-30°)	2714.9	4.7	B4/5000		
BM (30°-60°)	12652.7	22.0	B5		
BH (60°-80°)	13268.0	23.0	B5		G5
BVH (80°-90°)	160.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4
2.5°	6395.4	6401.5	6392.3	6386.3	6383.3	6383.3	6380.2	6383.3	6401.5	6404.5	6395.4
5°	6377.2	6383.3	6380.2	6374.2	6371.1	6371.1	6368.1	6365.1	6380.2	6386.3	6383.3
7.5°	6352.9	6355.9	6352.9	6349.9	6352.9	6349.9	6340.7	6334.7	6346.8	6346.8	6343.8
10°	6310.4	6316.5	6313.5	6316.5	6322.6	6322.6	6310.4	6298.3	6301.3	6295.2	6295.2
12.5°	6258.8	6267.9	6271.0	6283.1	6298.3	6316.5	6289.1	6261.9	6255.8	6252.7	6249.7
15°	6225.4	6234.6	6246.7	6258.8	6286.2	6325.6	6286.2	6243.6	6231.5	6219.4	6213.3
17.5°	6216.3	6228.5	6246.7	6264.9	6301.3	6340.7	6307.4	6264.9	6234.6	6216.3	6210.3
20°	6240.6	6249.7	6277.0	6310.4	6362.0	6401.5	6368.1	6322.6	6277.0	6249.7	6240.6
22.5°	6289.1	6304.3	6337.8	6398.4	6471.3	6529.0	6483.4	6407.5	6334.7	6298.3	6286.2
25°	6395.4	6407.5	6447.0	6529.0	6613.9	6668.6	6620.0	6532.0	6431.8	6383.3	6368.1
27.5°	6556.3	6574.5	6617.0	6714.1	6783.9	6814.3	6780.9	6720.2	6647.4	6595.8	6583.6
30°	6783.9	6805.2	6868.9	6972.1	7017.6	7035.9	7020.7	6981.2	6929.6	6875.0	6862.8
32.5°	7090.5	7102.7	7175.5	7272.6	7315.1	7321.2	7303.0	7284.7	7199.8	7108.7	7102.7
35°	7433.5	7454.7	7542.7	7658.1	7697.6	7700.6	7664.2	7636.8	7536.7	7463.9	7463.9
37.5°	7888.8	7897.9	7982.8	8113.4	8155.9	8143.7	8125.5	8101.2	7995.1	7900.9	7904.0
40°	8423.0	8441.2	8514.0	8665.9	8665.9	8650.7	8662.8	8644.6	8538.3	8447.3	8450.3
42.5°	9057.4	9066.5	9154.5	9315.4	9303.2	9272.9	9285.0	9260.8	9194.0	9090.8	9054.4
45°	9734.3	9770.7	9922.4	10077.2	10052.9	9955.8	10004.4	9998.4	9937.6	9782.8	9791.9
47.5°	10550.8	10611.5	10757.2	10942.3	10915.0	10763.2	10817.8	10854.3	10769.3	10599.3	10568.9
50°	11470.5	11509.9	11725.4	11898.5	11874.1	11713.3	11837.7	11843.8	11631.3	11391.6	11391.6
52.5°	12450.9	12490.3	12781.7	13051.8	13067.0	12833.3	12933.4	12927.4	12581.4	12265.7	12205.0
55°	13549.7	13567.8	13944.2	14341.9	14426.9	14199.2	14211.4	14089.9	13640.7	13273.4	13240.1
57.5°	14684.9	14751.6	15167.5	15683.5	15935.4	15795.8	15732.0	15407.2	14973.2	14551.3	14530.1
60°	15941.5	15944.5	16484.8	17094.9	17604.8	17698.9	17437.9	17003.9	16442.3	15883.8	15859.5
62.5°	16812.6	16943.1	17626.0	18658.1	19571.7	20099.8	19410.8	18500.3	17395.4	16493.9	16402.8
65°	16991.7	17079.7	18120.8	19869.2	21735.9	22874.1	21280.6	19344.1	17459.1	16257.1	16196.4
67.5°	15543.9	15637.9	17040.3	19723.5	23253.5	25587.7	22494.7	18937.3	16378.6	14891.3	14772.9
70°	12022.9	12129.1	13862.3	17362.0	22916.6	26440.7	21629.7	16518.2	13507.1	11901.4	11686.0
72.5°	6392.3	6783.9	8265.2	11916.6	18600.4	22764.9	17735.3	12053.3	8711.3	7120.8	6835.5
75°	2334.1	2382.7	3208.3	5284.5	10820.9	15610.6	11236.8	5748.9	3305.4	2552.7	2422.2
77.5°	965.2	962.2	1056.3	1596.5	3930.7	7995.1	4386.1	1687.6	1053.3	974.4	962.2
80°	570.7	570.7	628.3	664.8	1035.0	2413.0	1156.5	752.8	631.3	576.7	585.8
82.5°	254.9	270.1	397.6	418.9	500.8	661.7	558.5	479.6	412.8	285.3	258.0
85°	139.6	121.4	209.5	218.5	239.8	245.9	264.1	261.1	239.8	139.6	142.7
87.5°	27.3	33.4	60.7	45.5	51.6	45.5	60.7	85.0	88.0	48.5	39.5
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)