

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: P651110

Luminaire Tested: **GALN-SA9C-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45473.7 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

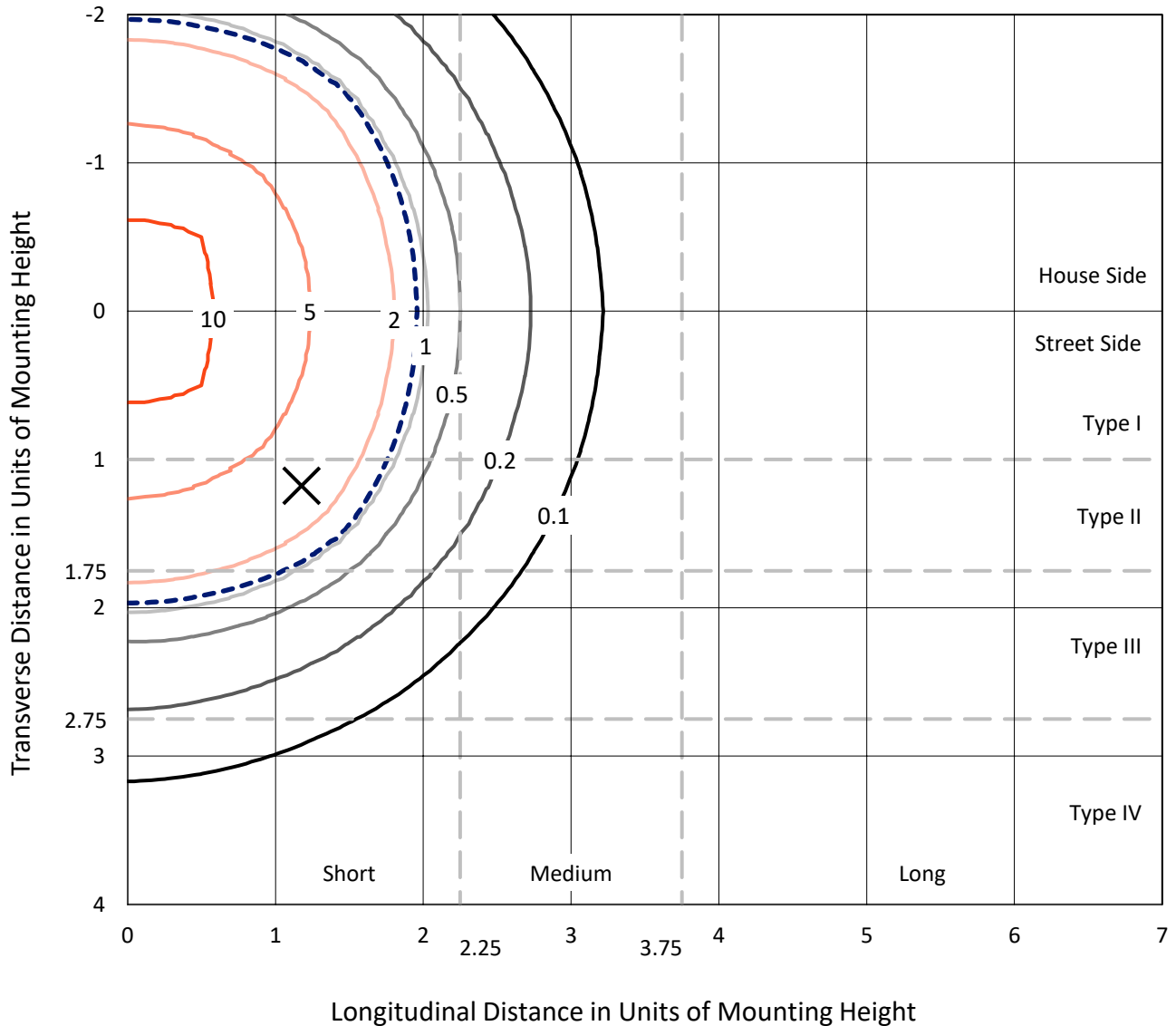
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

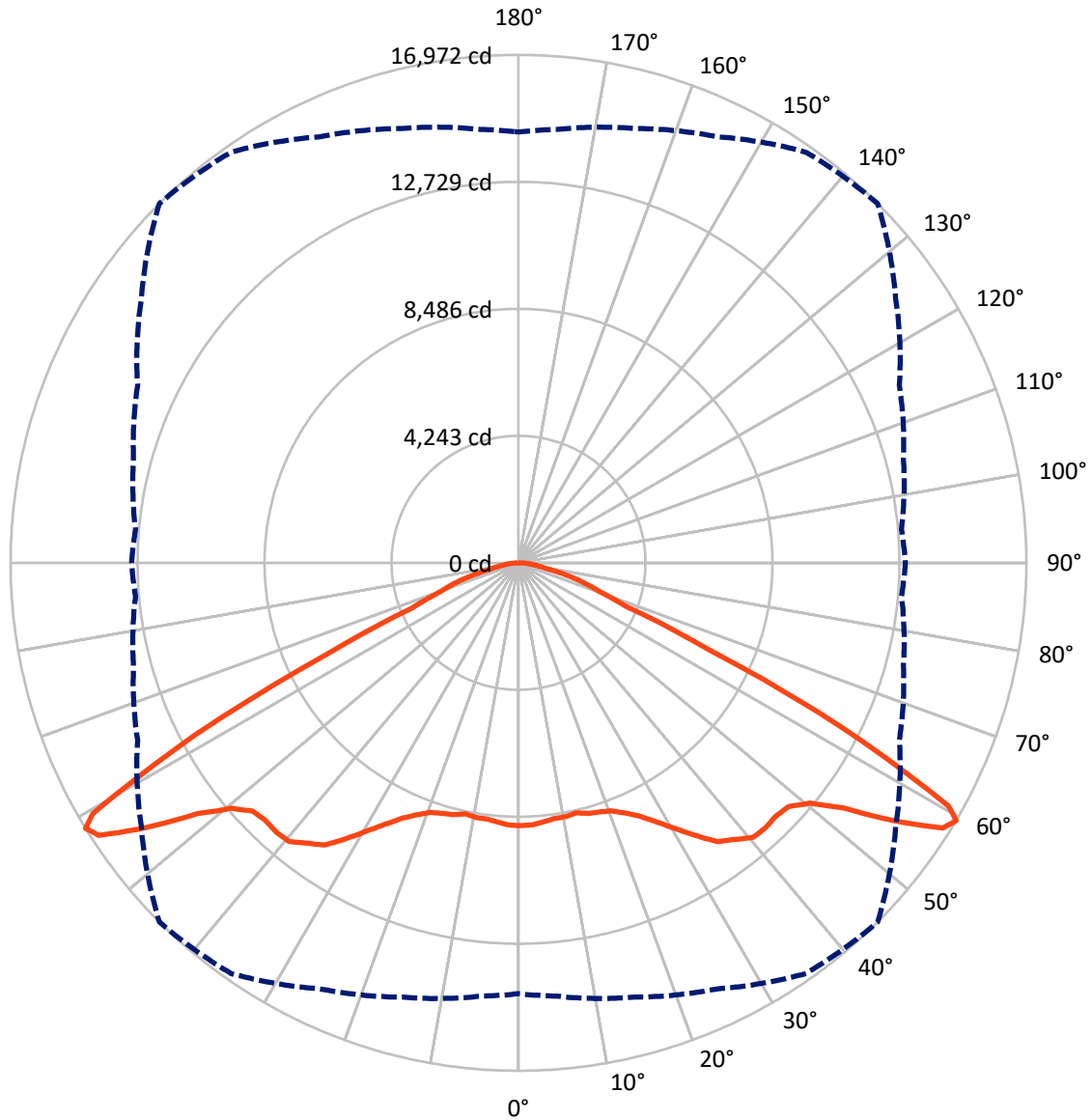
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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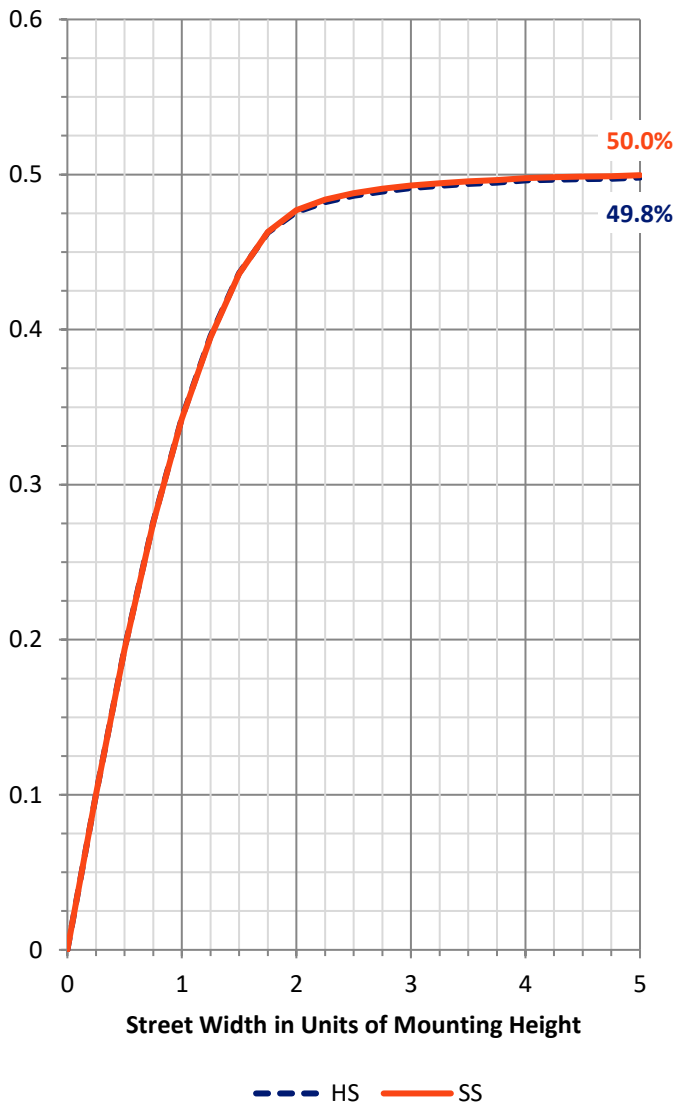
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22736.9	0.0	22736.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22736.9	0.0	22736.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45473.7	0.0	45473.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	828.0	1.8
10°-20°	2462.3	5.4
20°-30°	4299.4	9.5
30°-40°	6866.8	15.1
40°-50°	9354.0	20.6
50°-60°	12649.1	27.8
60°-70°	6936.8	15.3
70°-80°	1774.6	3.9
80°-90°	302.7	0.7
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°	45473.7	100.0
0°-180°	45473.7	100.0

**Coefficient of Utilization**



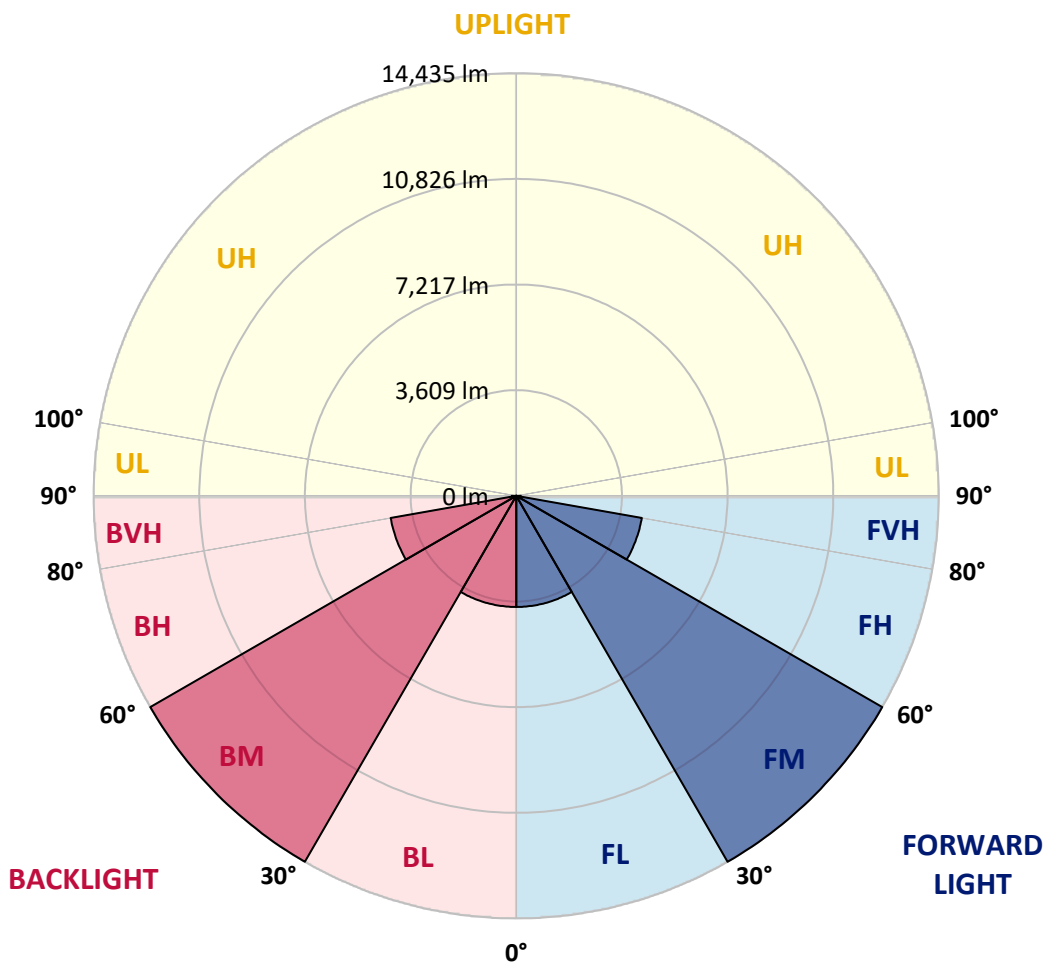
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3794.9	8.3			
FM (30°-60°)	14434.9	31.7			
FH (60°-80°)	4355.7	9.6			G2/5000
FVH (80°-90°)	151.3	0.3			G2/225
BL (0°-30°)	3794.9	8.3	B4/5000		
BM (30°-60°)	14434.9	31.7	B5		
BH (60°-80°)	4355.7	9.6	B4/5000		G2/5000
BVH (80°-90°)	151.3	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8783.3	8783.3	8783.3	8783.3	8783.3	8783.3	8783.3	8783.3	8783.3	8783.3	8783.3
2.5°	8730.9	8795.0	8748.3	8789.2	8783.3	8765.8	8736.7	8719.2	8695.9	8730.9	8672.6
5°	8695.9	8748.3	8800.8	8730.9	8730.9	8695.9	8678.4	8643.5	8643.5	8637.7	8631.8
7.5°	8754.2	8701.7	8678.4	8690.1	8701.7	8626.0	8678.4	8608.5	8550.2	8591.0	8637.7
10°	8701.7	8725.0	8637.7	8678.4	8614.4	8626.0	8591.0	8637.7	8573.5	8573.5	8573.5
12.5°	8754.2	8690.1	8719.2	8690.1	8672.6	8573.5	8620.2	8567.7	8561.9	8620.2	8567.7
15°	8859.1	8754.2	8730.9	8672.6	8690.1	8690.1	8643.5	8649.3	8585.2	8620.2	8631.8
17.5°	8824.1	8765.8	8748.3	8678.4	8736.7	8754.2	8666.8	8608.5	8649.3	8643.5	8637.7
20°	8853.3	8876.6	8859.1	8870.8	8894.1	8847.5	8765.8	8684.3	8631.8	8707.5	8701.7
22.5°	9039.8	9016.4	9004.8	8993.1	9033.9	9080.6	8969.9	8841.6	8841.6	8894.1	8917.4
25°	9191.4	9185.5	9179.7	9232.2	9372.0	9372.0	9232.2	9068.9	9028.1	9063.1	9033.9
27.5°	9412.8	9476.9	9453.6	9546.9	9750.9	9797.5	9610.9	9418.6	9307.9	9267.1	9319.5
30°	9919.8	9844.1	9861.6	9960.6	10141.4	10292.9	10007.3	9803.3	9651.7	9645.9	9669.2
32.5°	10257.9	10316.2	10368.7	10462.0	10747.5	10864.0	10520.2	10188.0	10094.7	10042.3	10059.8
35°	10934.0	10881.5	10869.9	10963.2	11248.7	11441.0	11009.8	10718.4	10595.9	10712.6	10712.6
37.5°	11575.1	11429.4	11318.7	11441.0	11703.4	11726.7	11359.5	11202.1	11138.0	11272.1	11266.2
40°	11878.2	11866.5	11610.1	11680.1	12029.7	12064.7	11720.8	11534.3	11522.7	11697.6	11872.4
42.5°	12192.9	12082.2	11825.7	11872.4	12088.0	12099.7	11773.3	11720.8	11849.1	12018.1	12029.7
45°	12245.4	12152.1	11989.0	11872.4	12029.7	12064.7	11872.4	11907.4	11919.0	12123.0	12123.0
47.5°	12350.3	12338.6	12245.4	12158.0	12187.1	12158.0	12035.6	12088.0	12262.9	12361.9	12315.4
50°	12641.7	12519.3	12612.6	12536.8	12542.7	12624.3	12513.5	12566.0	12531.0	12443.5	12385.2
52.5°	13282.8	13224.6	13306.1	13358.6	13416.9	13603.4	13475.2	13195.5	12933.2	12700.0	12694.1
55°	14221.2	14262.0	14419.4	14687.5	14914.8	15212.0	14594.2	13923.9	13504.4	13137.2	13160.5
57.5°	15107.1	15078.0	15293.7	15905.6	16570.1	16721.6	15509.3	14553.4	13871.5	13638.4	13539.3
59°	14396.1	14535.9	15025.6	15707.4	16750.7	16972.2	15386.9	14040.5	13317.8	12845.7	12927.3
60°	13277.0	13329.4	13766.6	14716.7	16127.1	16506.0	14565.1	13247.9	12286.2	12012.3	12134.6
62.5°	9383.7	9342.8	9657.6	10432.8	11697.6	12210.4	10829.1	9902.4	9296.2	8993.1	9063.1
65°	4989.1	5175.6	5303.9	5787.6	6457.8	6999.9	6428.7	6026.5	5688.5	5437.9	5432.0
67.5°	3368.8	3345.5	3374.6	3485.4	3712.7	3864.2	3852.5	3648.6	3619.4	3572.8	3625.2
70°	2838.4	2826.8	2774.3	2774.3	2821.0	2855.9	2896.7	2920.0	2966.6	3024.9	3019.1
72.5°	2302.2	2273.1	2238.1	2220.6	2278.9	2296.4	2348.8	2372.1	2412.9	2407.1	2459.6
75°	1521.2	1521.2	1562.0	1608.7	1626.1	1661.1	1666.9	1736.8	1736.8	1748.5	1701.8
77.5°	850.9	827.6	856.8	903.4	944.2	1008.3	1072.4	1124.8	1154.0	1142.3	1142.3
80°	495.4	495.4	524.5	577.0	629.5	687.8	734.4	775.1	804.3	792.6	769.3
82.5°	308.9	308.9	338.1	390.5	431.3	466.3	530.4	582.8	617.8	606.1	577.0
85°	157.4	157.4	192.3	227.3	279.8	303.1	297.2	273.9	268.1	238.9	238.9
87.5°	40.8	40.8	58.3	64.1	52.5	58.3	58.3	58.3	58.3	58.3	64.1
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)