

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: P647150

Luminaire Tested: **GALN-SA9C-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647150
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-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 42337.6 lumens
Efficiency: N/A
Efficacy: 88.0 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

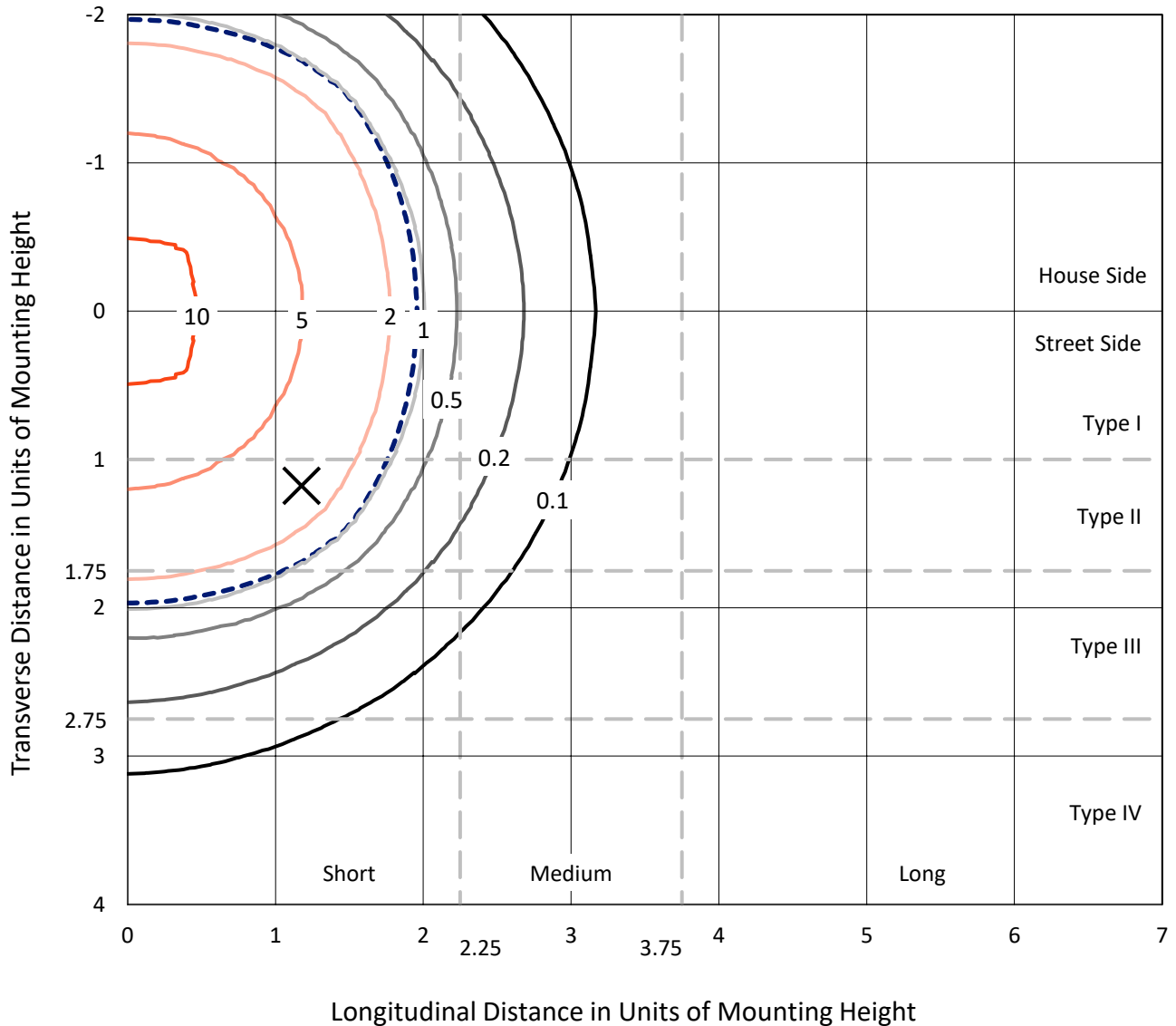
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

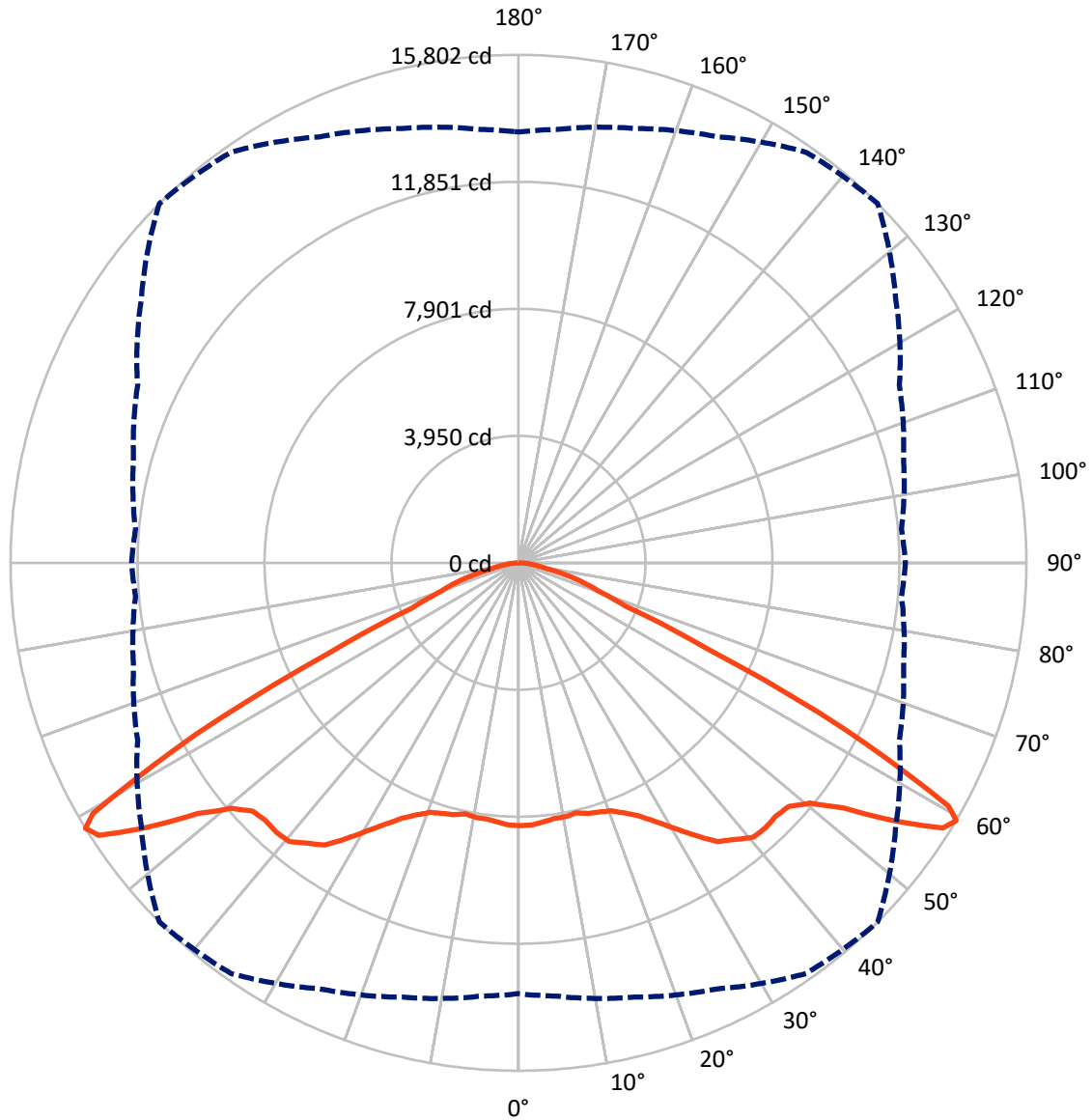
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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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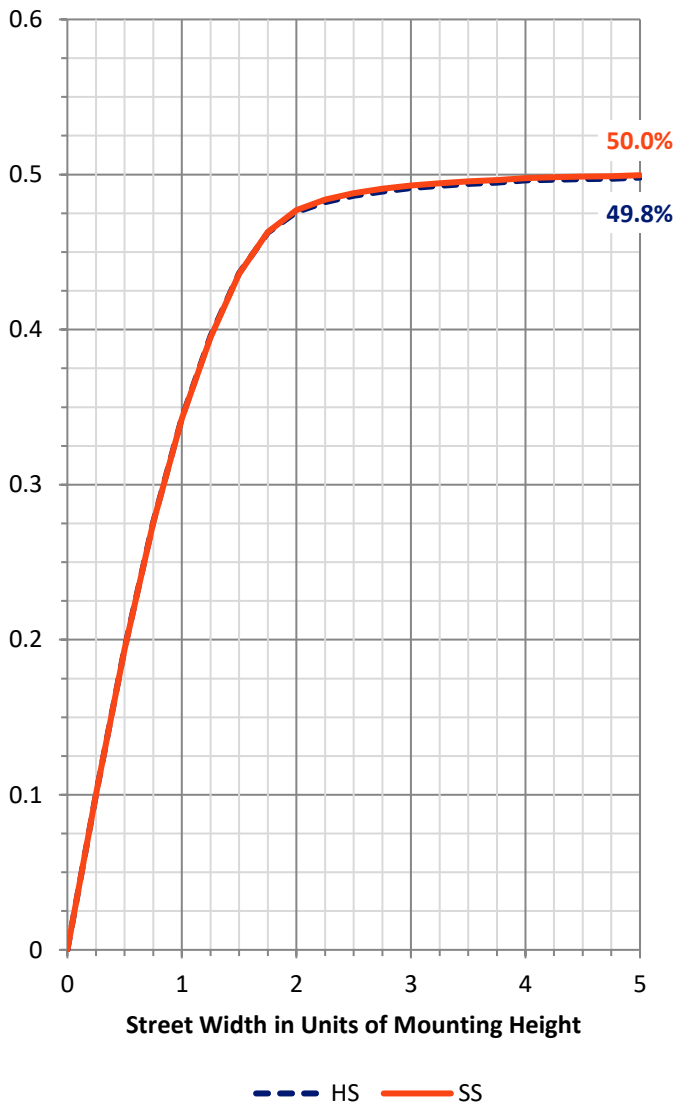
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21168.8	0.0	21168.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21168.8	0.0	21168.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	42337.6	0.0	42337.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.9	1.8
10°-20°	2292.5	5.4
20°-30°	4002.9	9.5
30°-40°	6393.2	15.1
40°-50°	8708.9	20.6
50°-60°	11776.7	27.8
60°-70°	6458.4	15.3
70°-80°	1652.2	3.9
80°-90°	281.8	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°	42337.6	100.0
0°-180°	42337.6	100.0



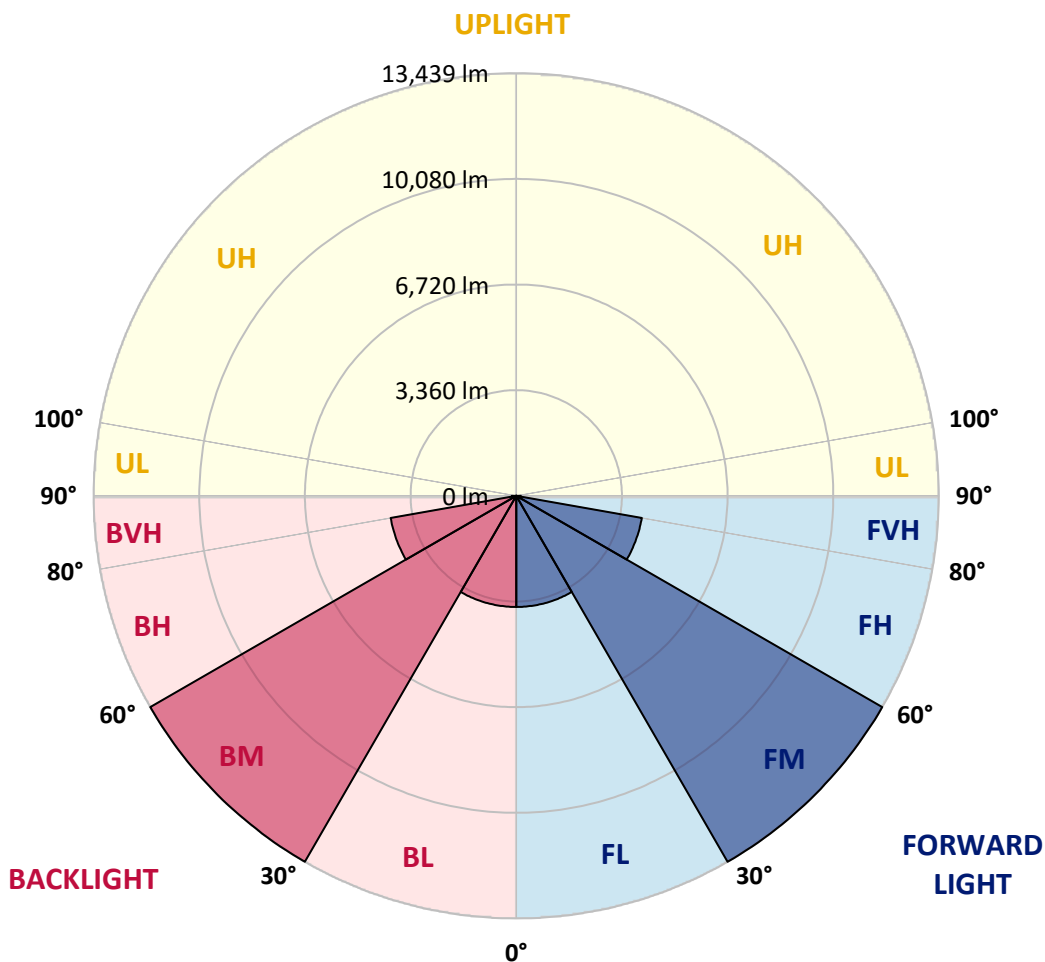
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3533.1	8.3			
FM (30°-60°)	13439.4	31.7			
FH (60°-80°)	4055.3	9.6			G2/5000
FVH (80°-90°)	140.9	0.3			G2/225
BL (0°-30°)	3533.1	8.3	B4/5000		
BM (30°-60°)	13439.4	31.7	B5		
BH (60°-80°)	4055.3	9.6	B4/5000		G2/5000
BVH (80°-90°)	140.9	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°	8177.6	8177.6	8177.6	8177.6	8177.6	8177.6	8177.6	8177.6	8177.6	8177.6	8177.6
2.5°	8128.8	8188.5	8145.0	8183.1	8177.6	8161.3	8134.2	8117.9	8096.2	8128.8	8074.5
5°	8096.2	8145.0	8193.9	8128.8	8128.8	8096.2	8079.9	8047.4	8047.4	8042.0	8036.5
7.5°	8150.5	8101.6	8079.9	8090.7	8101.6	8031.1	8079.9	8014.8	7960.5	7998.5	8042.0
10°	8101.6	8123.3	8042.0	8079.9	8020.3	8031.1	7998.5	8042.0	7982.2	7982.2	7982.2
12.5°	8150.5	8090.7	8117.9	8090.7	8074.5	7982.2	8025.7	7976.8	7971.4	8025.7	7976.8
15°	8248.1	8150.5	8128.8	8074.5	8090.7	8090.7	8047.4	8052.8	7993.1	8025.7	8036.5
17.5°	8215.5	8161.3	8145.0	8079.9	8134.2	8150.5	8069.0	8014.8	8052.8	8047.4	8042.0
20°	8242.7	8264.4	8248.1	8259.0	8280.7	8237.3	8161.3	8085.3	8036.5	8107.0	8101.6
22.5°	8416.4	8394.6	8383.8	8372.9	8410.9	8454.4	8351.2	8231.8	8231.8	8280.7	8302.4
25°	8557.5	8552.0	8546.6	8595.5	8725.7	8725.7	8595.5	8443.5	8405.5	8438.1	8410.9
27.5°	8763.6	8823.3	8801.6	8888.5	9078.4	9121.8	8948.1	8769.1	8666.0	8628.0	8676.8
30°	9235.7	9165.2	9181.5	9273.7	9442.0	9583.1	9317.2	9127.2	8986.1	8980.7	9002.4
32.5°	9550.5	9604.7	9653.6	9740.4	10006.3	10114.8	9794.7	9485.3	9398.5	9349.7	9366.0
35°	10179.9	10131.1	10120.3	10207.1	10472.9	10652.0	10250.5	9979.2	9865.2	9973.8	9973.8
37.5°	10776.8	10641.2	10538.1	10652.0	10896.2	10917.9	10576.1	10429.6	10369.9	10494.7	10489.2
40°	11059.0	11048.1	10809.4	10874.5	11200.1	11232.7	10912.5	10738.8	10728.0	10890.8	11053.6
42.5°	11352.0	11249.0	11010.2	11053.6	11254.4	11265.3	10961.4	10912.5	11031.9	11189.2	11200.1
45°	11400.9	11314.0	11162.1	11053.6	11200.1	11232.7	11053.6	11086.2	11097.0	11286.9	11286.9
47.5°	11498.6	11487.7	11400.9	11319.5	11346.6	11319.5	11205.5	11254.4	11417.2	11509.4	11466.0
50°	11769.9	11655.9	11742.7	11672.2	11677.7	11753.6	11650.5	11699.4	11666.8	11585.3	11531.1
52.5°	12366.8	12312.5	12388.5	12437.3	12491.6	12665.3	12545.9	12285.4	12041.2	11824.2	11818.7
55°	13240.5	13278.4	13424.9	13674.5	13886.2	14162.9	13587.7	12963.7	12573.0	12231.2	12252.9
57.5°	14065.3	14038.1	14238.9	14808.6	15427.3	15568.4	14439.7	13549.7	12914.9	12697.8	12605.5
59°	13403.2	13533.5	13989.3	14624.2	15595.5	15801.7	14325.7	13072.2	12399.4	11959.8	12035.8
60°	12361.4	12410.2	12817.2	13701.7	15014.9	15367.6	13560.6	12334.2	11438.8	11183.8	11297.8
62.5°	8736.6	8698.5	8991.6	9713.3	10890.8	11368.3	10082.3	9219.4	8655.1	8372.9	8438.1
65°	4645.0	4818.7	4938.1	5388.4	6012.4	6517.1	5985.3	5610.9	5296.2	5062.9	5057.4
67.5°	3136.5	3114.8	3141.9	3245.0	3456.6	3597.7	3586.8	3397.0	3369.8	3326.4	3375.2
70°	2642.6	2631.8	2583.0	2583.0	2626.4	2658.9	2696.9	2718.7	2762.0	2816.3	2810.9
72.5°	2143.5	2116.3	2083.7	2067.4	2121.7	2138.0	2186.8	2208.5	2246.5	2241.1	2290.0
75°	1416.3	1416.3	1454.3	1497.7	1513.9	1546.5	1552.0	1617.1	1617.1	1627.9	1584.5
77.5°	792.2	770.6	797.7	841.1	879.1	938.7	998.5	1047.3	1074.4	1063.5	1063.5
80°	461.3	461.3	488.4	537.2	586.1	640.3	683.7	721.7	748.9	738.0	716.3
82.5°	287.6	287.6	314.8	363.5	401.5	434.1	493.8	542.6	575.2	564.3	537.2
85°	146.5	146.5	179.1	211.6	260.5	282.2	276.7	255.0	249.6	222.5	222.5
87.5°	38.0	38.0	54.3	59.7	48.9	54.3	54.3	54.3	54.3	54.3	59.7
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)