

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: P533994

Luminaire Tested: **GALN-SA9C-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47047 lumens
Efficiency: N/A
Efficacy: 97.8 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

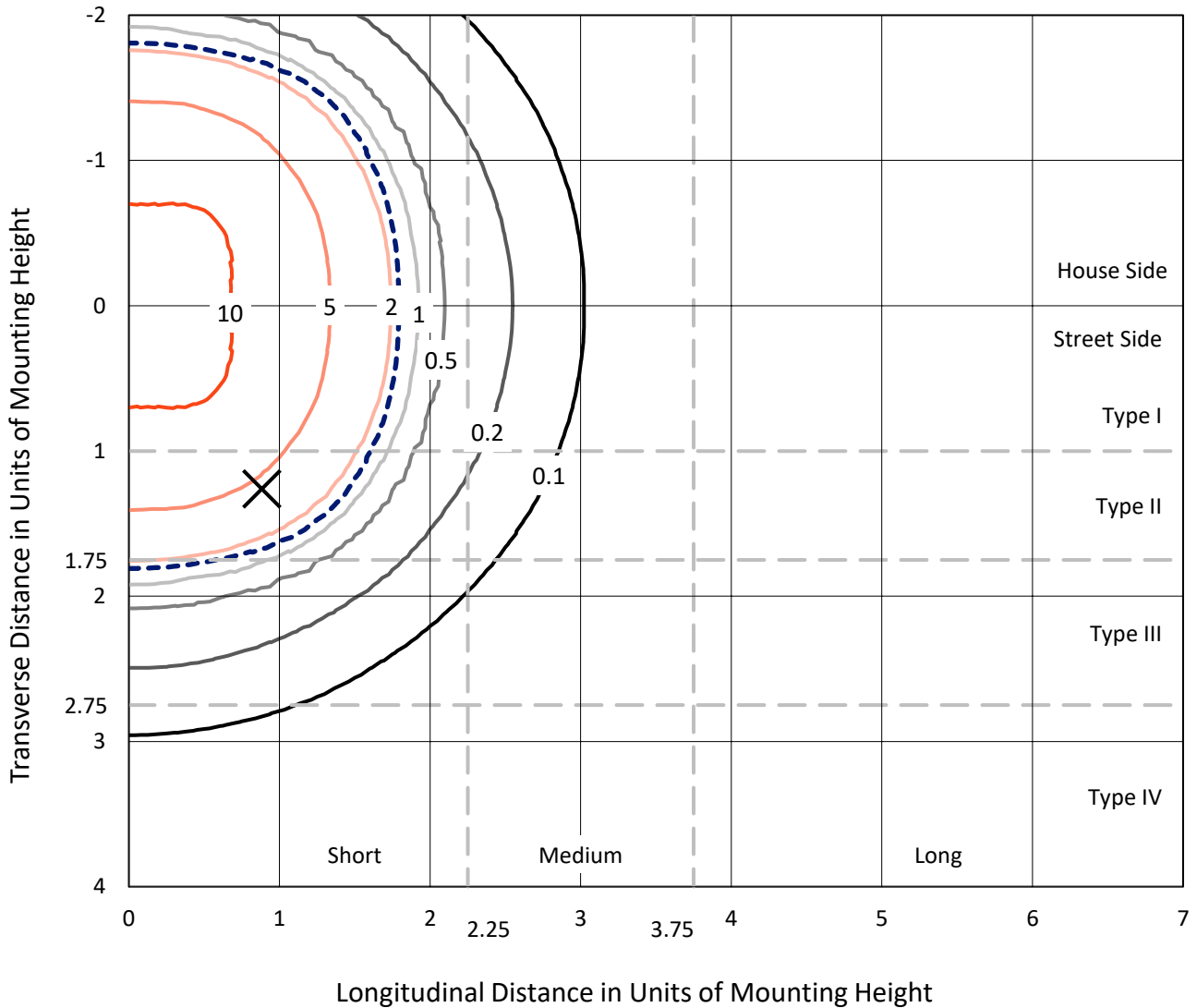
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

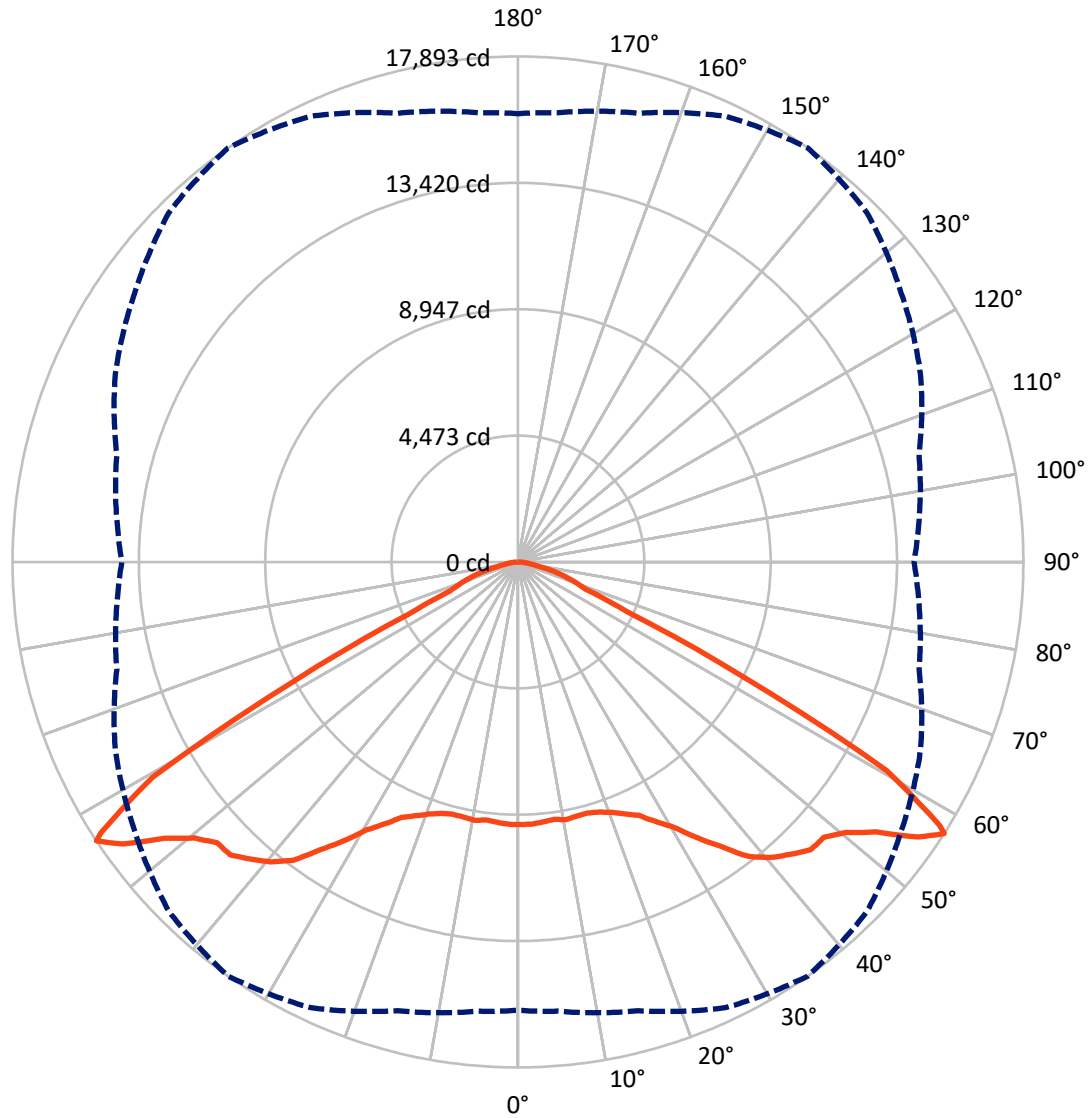
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23523.5	0.0	23523.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23523.5	0.0	23523.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47047.0	0.0	47047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.9	1.9
10°-20°	2608.9	5.5
20°-30°	4556.3	9.7
30°-40°	7465.7	15.9
40°-50°	10946.5	23.3
50°-60°	13788.0	29.3
60°-70°	5185.5	11.0
70°-80°	1378.8	2.9
80°-90°	236.4	0.5
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°	47047.0	100.0
0°-180°	47047.0	100.0

Coefficient of Utilization



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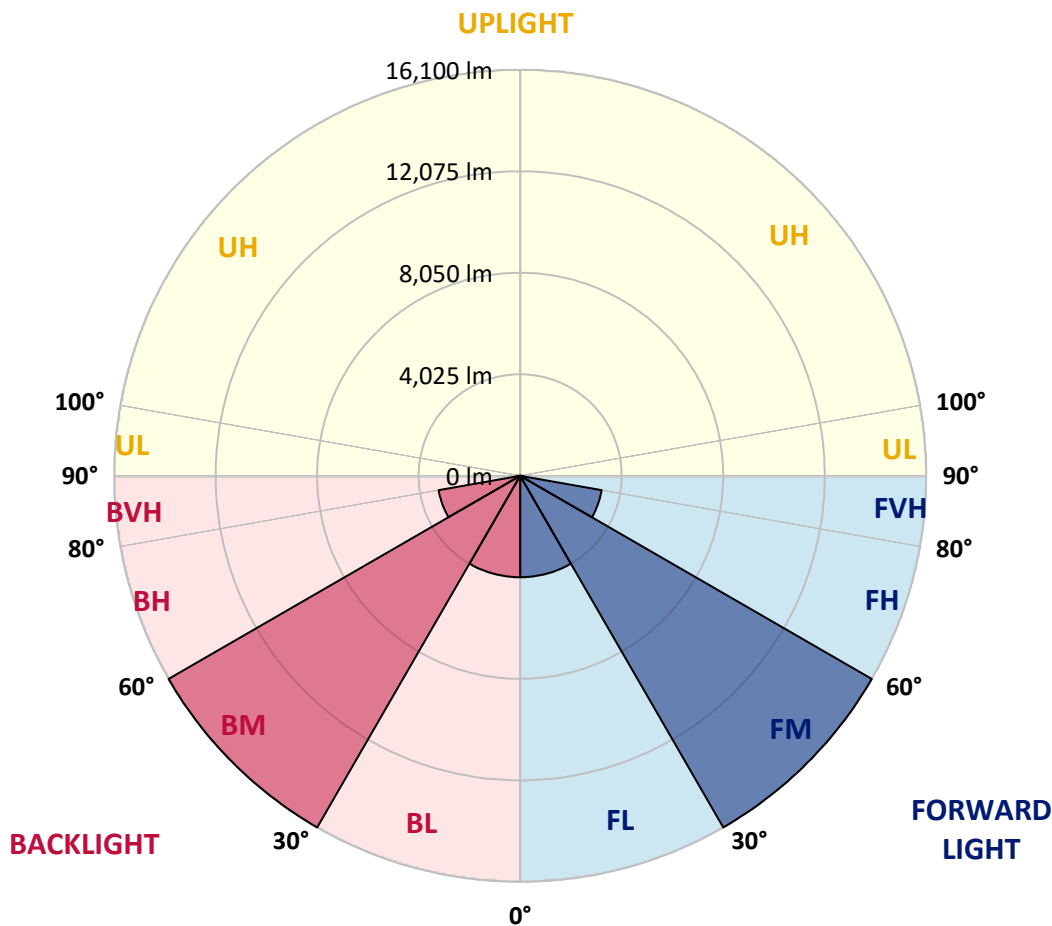
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4023.0	8.6			
FM (30°-60°)	16100.1	34.2			
FH (60°-80°)	3282.2	7.0			G2/5000
FVH (80°-90°)	118.2	0.3			G2/225
BL (0°-30°)	4023.0	8.6	B4/5000		
BM (30°-60°)	16100.1	34.2	B5		
BH (60°-80°)	3282.2	7.0	B4/5000		G2/5000
BVH (80°-90°)	118.2	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°	9291.4	9291.4	9291.4	9291.4	9291.4	9291.4	9291.4	9291.4	9291.4	9291.4	9291.4
2.5°	9245.1	9337.8	9297.2	9274.0	9291.4	9262.5	9216.1	9268.3	9256.7	9210.3	9192.9
5°	9221.9	9291.4	9245.1	9291.4	9245.1	9326.2	9303.0	9216.1	9320.4	9221.9	9256.7
7.5°	9204.5	9227.7	9239.3	9216.1	9198.7	9297.2	9245.1	9204.5	9146.5	9129.1	9158.1
10°	9163.9	9221.9	9134.9	9250.9	9274.0	9204.5	9204.5	9129.1	9082.8	9053.8	9152.3
12.5°	9268.3	9169.7	9158.1	9216.1	9233.5	9262.5	9181.3	9140.7	9053.8	9065.4	9048.0
15°	9146.5	9187.1	9192.9	9204.5	9221.9	9291.4	9216.1	9129.1	9094.4	8972.6	8984.2
17.5°	9192.9	9152.3	9192.9	9326.2	9303.0	9355.2	9274.0	9140.7	9059.6	8990.0	9082.8
20°	9274.0	9256.7	9274.0	9436.3	9465.3	9511.7	9442.1	9320.4	9163.9	9082.8	9129.1
22.5°	9361.0	9349.4	9361.0	9517.5	9685.6	9743.5	9674.0	9390.0	9308.8	9158.1	9106.0
25°	9517.5	9529.1	9650.8	9824.7	9934.8	10045.0	9917.4	9714.6	9453.7	9361.0	9250.9
27.5°	9865.3	9894.2	9963.8	10218.8	10410.1	10508.7	10329.0	10050.7	9888.5	9697.2	9668.2
30°	10294.2	10294.2	10415.9	10636.2	10897.0	11047.7	10827.4	10497.1	10300.0	10195.7	10131.9
32.5°	10862.2	10798.5	10844.8	11233.2	11638.9	11766.4	11470.8	11065.1	10752.1	10613.0	10566.6
35°	11349.1	11389.7	11494.0	11911.4	12363.5	12659.1	12195.4	11667.9	11349.1	11221.6	11198.4
37.5°	11980.9	12050.5	12102.6	12676.5	13221.3	13331.4	12885.1	12462.0	12073.6	11969.3	11911.4
40°	12873.5	12827.2	12844.6	13267.7	13760.4	13829.9	13389.4	13088.0	12769.2	12705.4	12705.4
42.5°	13609.7	13557.5	13615.5	13772.0	14148.7	14096.6	13853.1	13632.8	13499.5	13430.0	13499.5
45°	14056.0	14044.4	14148.7	14264.6	14531.3	14357.4	14166.1	14200.9	14073.4	13957.4	13951.6
47.5°	14542.9	14467.5	14595.0	14768.9	14566.1	14484.9	14473.3	14548.7	14508.1	14305.2	14241.5
50°	14780.5	14751.5	14954.4	15157.3	15047.1	14861.7	14902.2	15024.0	14502.3	14229.9	14073.4
52.5°	15418.1	15423.9	15812.3	15922.4	15876.0	15603.6	15690.5	15360.1	14745.7	14363.2	14380.6
55°	16420.9	16380.3	16815.0	17139.6	17191.8	16844.0	16426.7	15963.0	15192.0	14803.7	14687.8
57°	15870.2	15963.0	16444.0	17406.2	17893.1	17481.6	16571.6	15725.3	14699.4	14229.9	14021.2
57.5°	15134.1	15284.8	16119.5	17087.4	17597.5	17562.7	16391.9	15284.8	14369.0	13638.6	13656.0
60°	11088.3	11117.3	11870.8	13406.8	15000.8	15035.5	13609.7	12143.2	11123.1	10329.0	10439.1
62.5°	5848.4	5981.8	6283.2	7517.8	8897.3	9233.5	8369.8	7616.3	6735.3	6132.5	6190.4
65°	3095.2	3077.8	3222.7	3570.5	4248.7	4422.6	4306.6	3709.6	3402.4	3303.9	3309.7
67.5°	2515.6	2544.6	2527.2	2544.6	2590.9	2666.3	2648.9	2672.1	2689.5	2718.5	2712.7
70°	2133.0	2133.0	2144.6	2150.4	2150.4	2185.2	2225.8	2301.1	2306.9	2335.9	2347.5
72.5°	1680.9	1669.3	1686.7	1727.3	1733.1	1762.1	1820.0	1866.4	1883.8	1883.8	1849.0
75°	1141.9	1153.5	1176.6	1211.4	1246.2	1298.4	1344.7	1373.7	1385.3	1367.9	1350.5
77.5°	643.4	655.0	672.4	724.5	765.1	811.5	863.6	892.6	921.6	927.4	892.6
80°	382.6	382.6	411.5	452.1	498.5	544.9	591.2	626.0	637.6	637.6	620.2
82.5°	231.9	237.6	260.8	301.4	342.0	371.0	411.5	440.5	463.7	457.9	446.3
85°	121.7	121.7	144.9	179.7	208.7	237.6	237.6	220.3	208.7	179.7	168.1
87.5°	40.6	34.8	46.4	46.4	40.6	46.4	46.4	52.2	52.2	52.2	52.2
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)