

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: P533997

Luminaire Tested: **GALN-SA9C-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
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-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27803 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

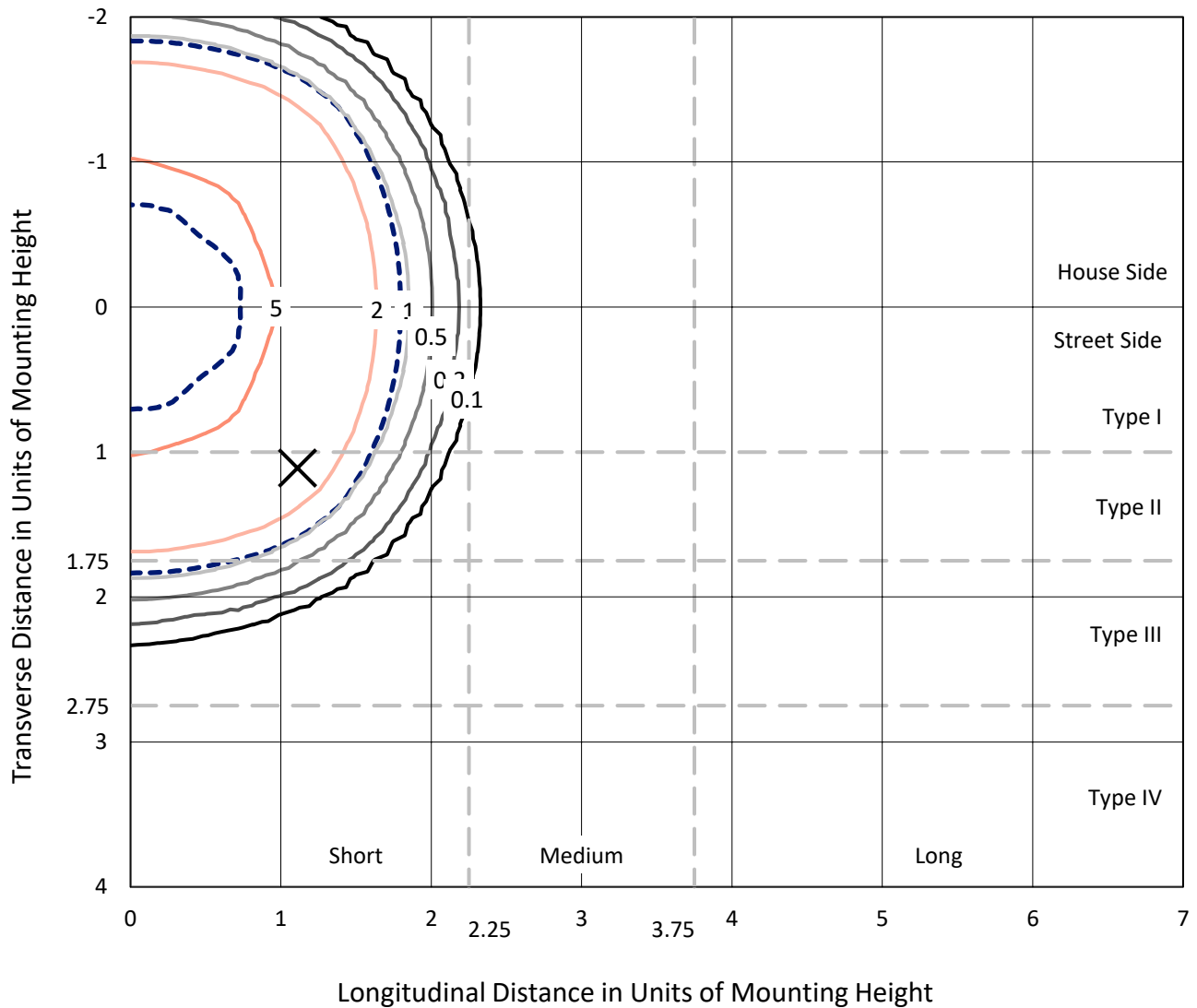
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 = 6.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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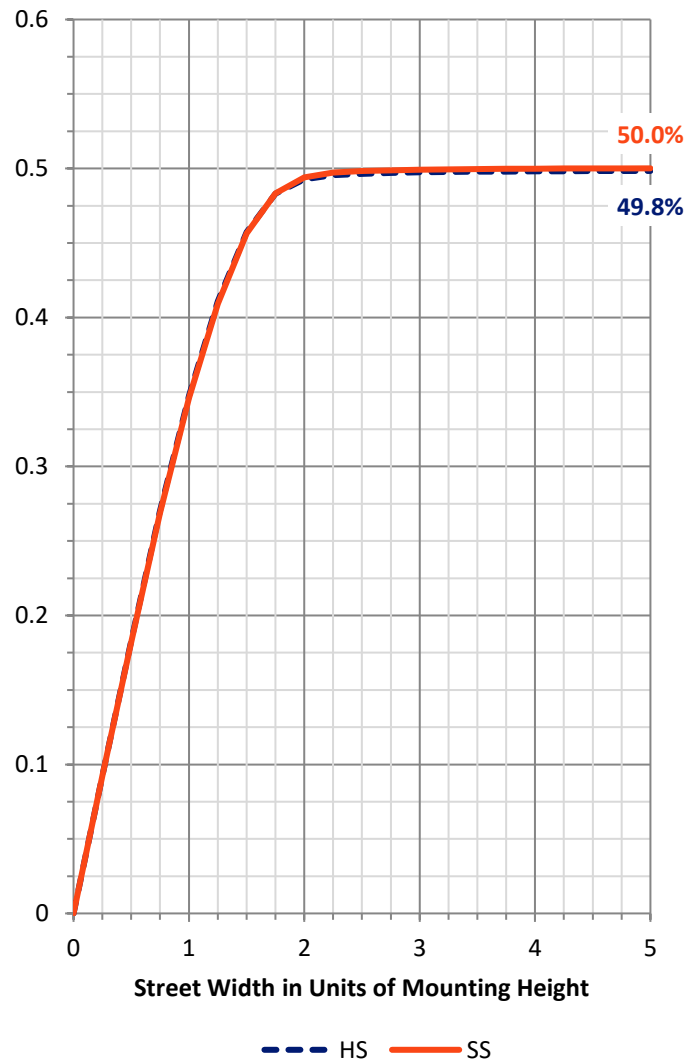
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13901.5	0.0	13901.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13901.5	0.0	13901.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27803.0	0.0	27803.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.3	1.4
10°-20°	1145.5	4.1
20°-30°	2114.4	7.6
30°-40°	4158.3	15.0
40°-50°	6772.7	24.4
50°-60°	9658.7	34.7
60°-70°	3344.1	12.0
70°-80°	179.4	0.6
80°-90°	33.7	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°	27803.0	100.0
0°-180°	27803.0	100.0

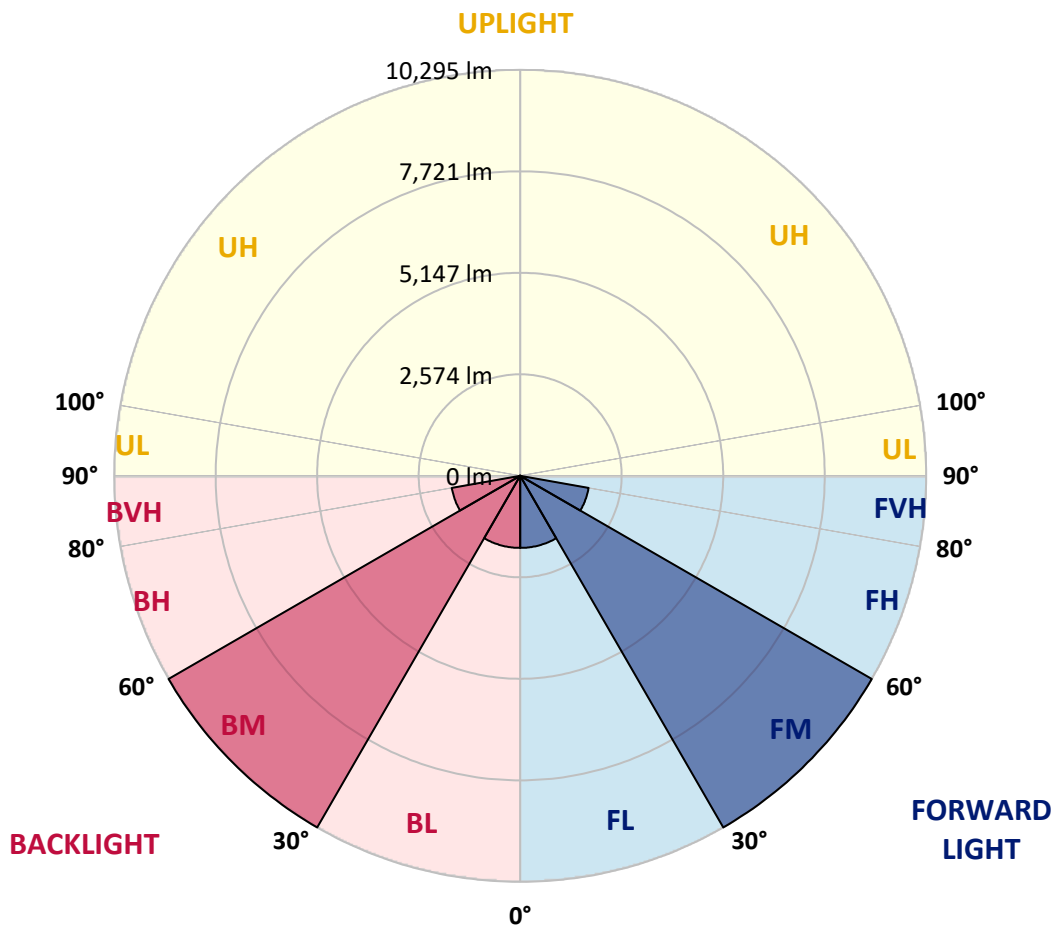


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1828.1	6.6			
FM (30°-60°)	10294.8	37.0			
FH (60°-80°)	1761.7	6.3			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1828.1	6.6	B3/2500		
BM (30°-60°)	10294.8	37.0	B5		
BH (60°-80°)	1761.7	6.3	B3/2500		G1/1800
BVH (80°-90°)	16.8	0.1			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°	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5
2.5°	4300.9	4324.1	4295.1	4283.6	4277.8	4277.8	4260.4	4260.4	4254.6	4260.4	4237.2
5°	4231.4	4254.6	4254.6	4248.8	4214.0	4208.2	4190.8	4179.2	4185.0	4161.8	4179.2
7.5°	4161.8	4179.2	4156.0	4150.2	4138.6	4115.5	4109.7	4057.5	4063.3	4063.3	4074.9
10°	4150.2	4144.4	4109.7	4080.7	4045.9	4040.1	4022.7	4011.1	4011.1	4005.3	4022.7
12.5°	4150.2	4121.3	4115.5	4051.7	3993.7	4016.9	3970.5	3941.6	3982.1	3993.7	4016.9
15°	4144.4	4173.4	4074.9	4045.9	4005.3	4011.1	3970.5	3941.6	3964.8	3976.3	3993.7
17.5°	4179.2	4161.8	4132.8	4074.9	4057.5	4034.3	3982.1	3959.0	3959.0	3987.9	3993.7
20°	4272.0	4225.6	4167.6	4138.6	4156.0	4127.1	4063.3	3976.3	3999.5	4022.7	4040.1
22.5°	4358.9	4324.1	4283.6	4266.2	4364.7	4318.3	4208.2	4109.7	4074.9	4115.5	4144.4
25°	4527.0	4527.0	4451.7	4474.8	4585.0	4590.8	4463.2	4289.4	4266.2	4283.6	4295.1
27.5°	4869.0	4886.4	4822.6	4845.8	4892.2	4932.8	4822.6	4677.7	4625.5	4619.7	4637.1
30°	5240.0	5274.7	5268.9	5367.5	5500.8	5524.0	5361.7	5124.0	4967.5	4938.5	4961.7
32.5°	5726.9	5744.3	5732.7	5848.6	6208.0	6376.1	5952.9	5616.7	5408.1	5460.2	5408.1
35°	6642.7	6625.3	6497.8	6521.0	6816.6	6938.3	6532.6	6318.1	6219.6	6323.9	6300.7
37.5°	7431.0	7367.2	7262.9	7413.6	7720.8	7831.0	7407.8	7031.1	6851.4	7025.3	7100.6
40°	8097.6	7935.3	7790.4	7941.1	8352.6	8503.3	7883.1	7575.9	7506.4	7633.9	7796.2
42.5°	8659.9	8555.5	8364.2	8375.8	8648.3	8717.8	8219.3	8039.6	7970.1	8173.0	8254.1
45°	9059.8	8961.3	8781.6	8770.0	8978.7	8932.3	8486.0	8364.2	8404.8	8538.1	8578.7
47.5°	9262.7	9314.8	9210.5	9239.5	9349.6	9239.5	8885.9	8885.9	8793.2	8874.3	8833.7
50°	9848.1	9685.8	9819.1	9819.1	9935.1	9946.7	9593.1	9465.6	9216.3	9077.2	9077.2
52.5°	10532.1	10543.7	10595.9	10787.1	10984.2	11152.3	10648.0	10103.2	9685.8	9506.1	9482.9
55°	11094.3	11210.3	11418.9	11778.3	12346.4	12578.2	11708.8	10735.0	10224.9	9946.7	9888.7
56°	11401.6	11291.4	11650.8	12143.5	12885.4	13186.9	11882.7	10862.5	10300.2	9987.2	9981.4
57.5°	11105.9	11227.7	11476.9	12253.6	13163.7	13557.8	11946.4	10804.5	9998.8	9680.0	9709.0
60°	8770.0	8885.9	9222.1	10091.6	11517.5	11824.7	10109.0	8909.1	8190.3	7732.4	7738.2
62.5°	4961.7	5048.7	5309.5	6115.2	7002.1	7297.7	6300.7	5500.8	5002.3	4747.3	4666.1
65°	1825.9	1791.1	1831.7	2243.2	2788.1	3037.3	2620.0	2214.2	1953.4	1860.7	1825.9
67.5°	684.0	631.8	591.2	631.8	794.1	840.5	770.9	643.4	602.8	620.2	631.8
70°	423.1	400.0	318.8	301.4	295.6	289.8	307.2	324.6	371.0	434.7	446.3
72.5°	295.6	278.2	226.1	214.5	202.9	197.1	226.1	249.2	289.8	336.2	342.0
75°	115.9	121.7	115.9	127.5	133.3	139.1	162.3	179.7	197.1	197.1	191.3
77.5°	23.2	23.2	34.8	46.4	58.0	75.4	110.1	127.5	133.3	127.5	110.1
80°	0.0	0.0	11.6	23.2	46.4	63.8	98.5	110.1	121.7	110.1	86.9
82.5°	0.0	0.0	11.6	29.0	46.4	58.0	92.7	115.9	133.3	121.7	92.7
85°	0.0	0.0	11.6	23.2	34.8	40.6	40.6	29.0	29.0	17.4	11.6
87.5°	0.0	0.0	0.0	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)