

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: P529841

Luminaire Tested: **GALN-SA5A-735-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13787 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

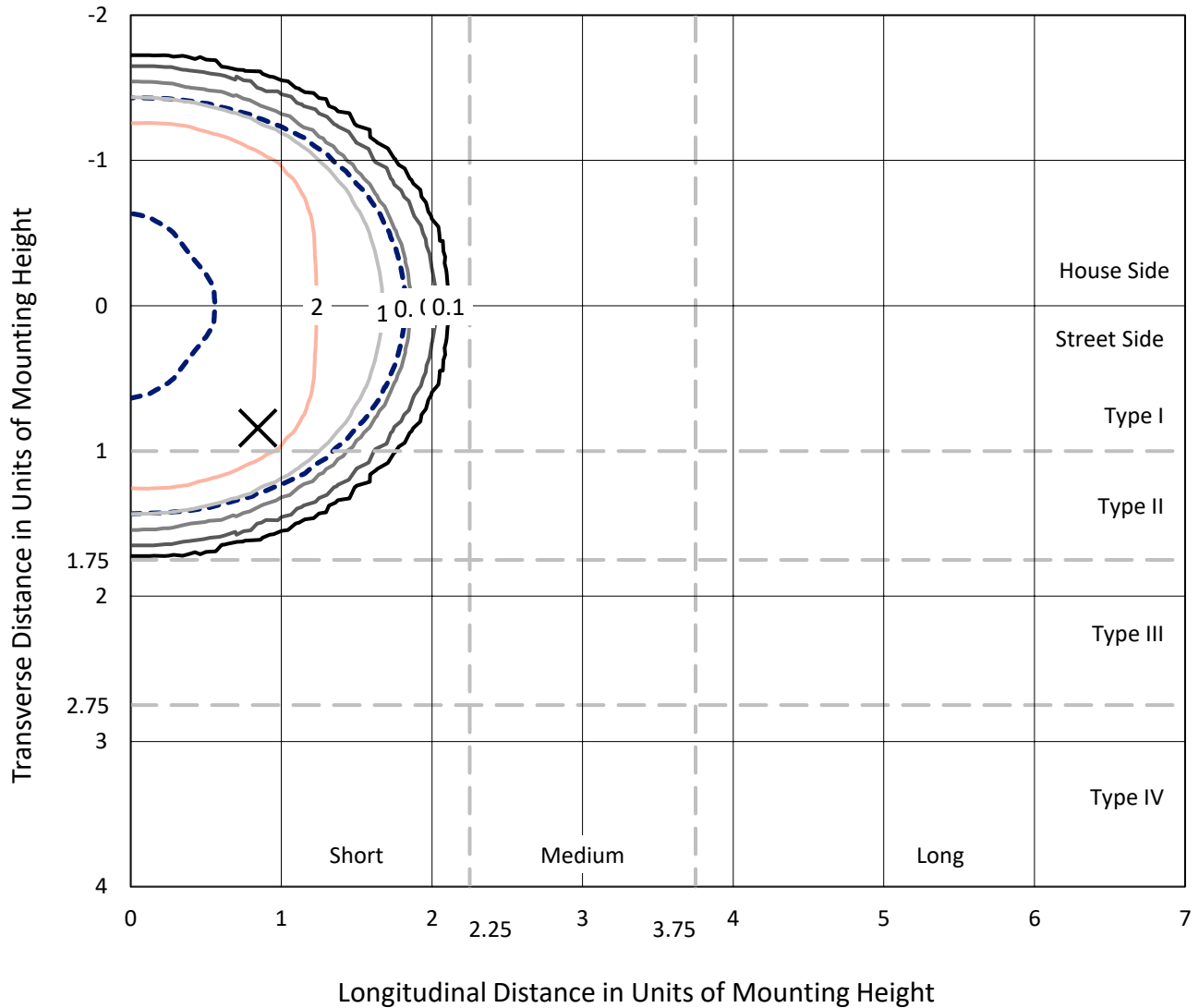
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

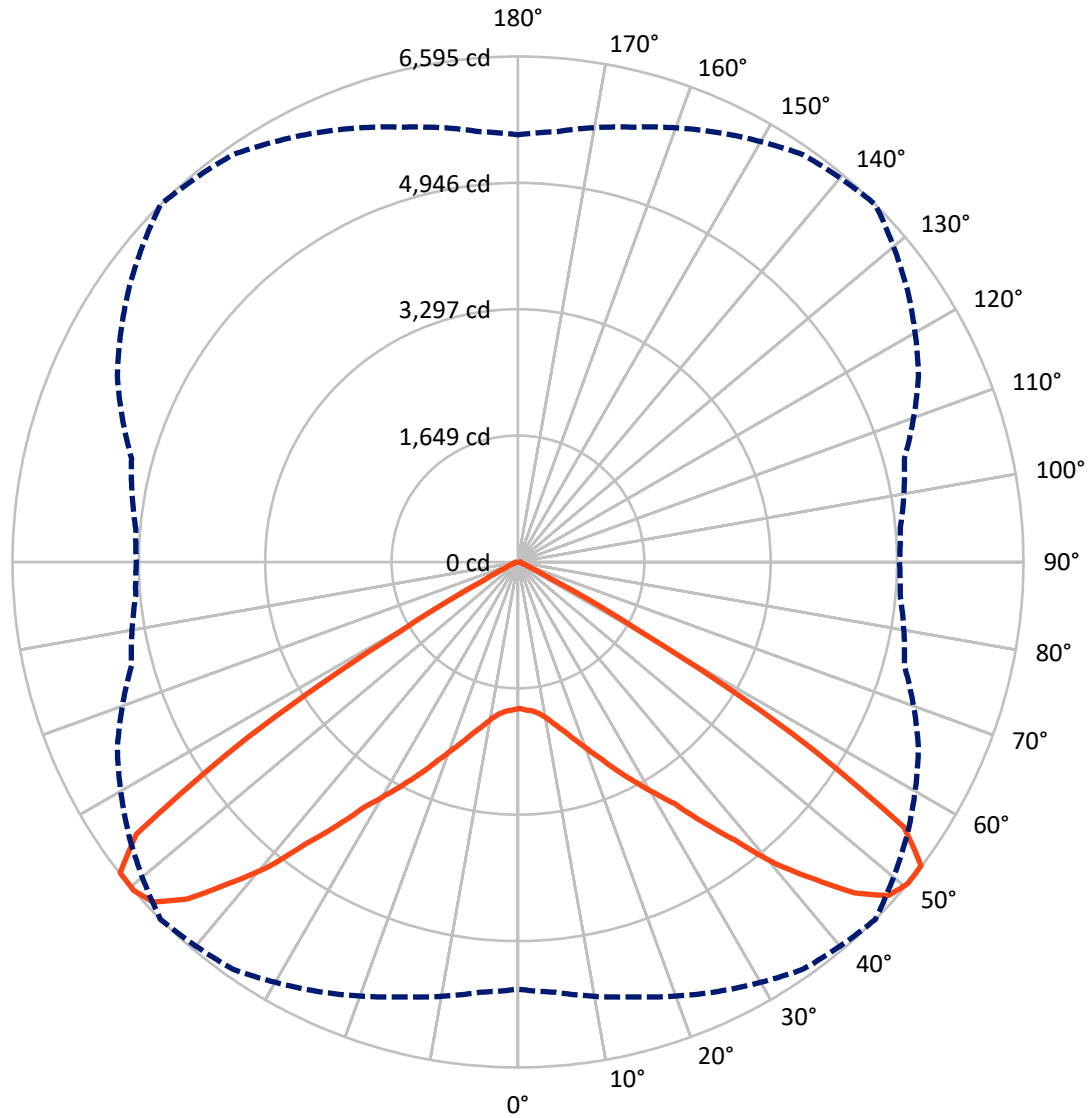
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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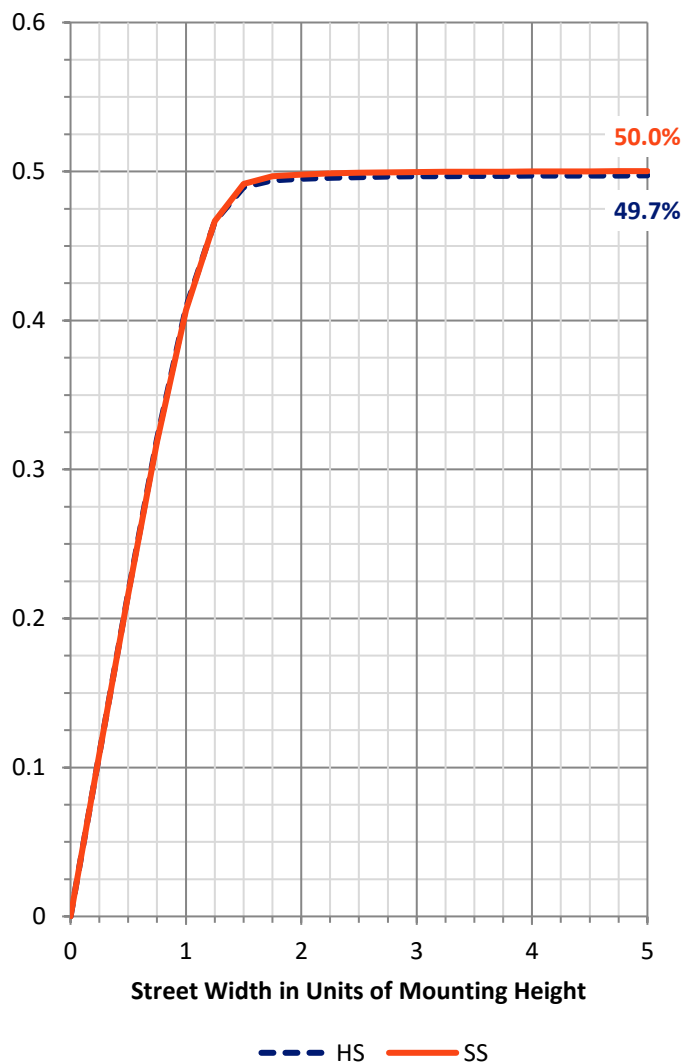
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6893.5	0.0	6893.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6893.5	0.0	6893.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13787.0	0.0	13787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	1.4
10°-20°	655.4	4.8
20°-30°	1338.6	9.7
30°-40°	2552.6	18.5
40°-50°	4301.6	31.2
50°-60°	4102.3	29.8
60°-70°	572.7	4.2
70°-80°	54.8	0.4
80°-90°	18.9	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°	13787.0	100.0
0°-180°	13787.0	100.0

Coefficient of Utilization



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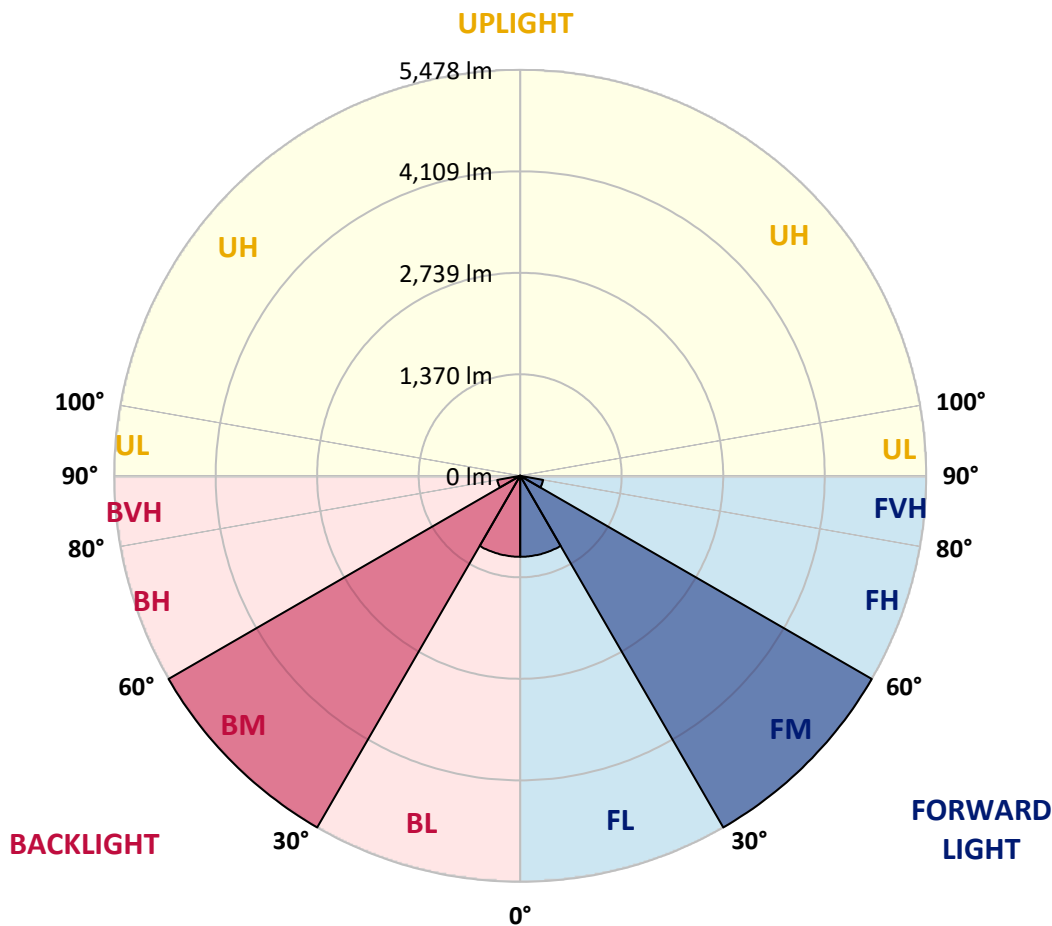
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.1	7.9			
FM (30°-60°)	5478.3	39.7			
FH (60°-80°)	313.7	2.3			G0/660
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	1092.1	7.9	B3/2500		
BM (30°-60°)	5478.3	39.7	B4/8500		
BH (60°-80°)	313.7	2.3	B1/500		G0/660
BVH (80°-90°)	9.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	1904.5	1904.5	1902.1	1920.7	1911.4	1932.3	1930.0	1936.9	1943.9	1941.6	1960.1
5°	1888.2	1885.9	1885.9	1906.8	1927.7	1950.9	1971.7	1985.6	2008.8	2008.8	2032.0
7.5°	1904.5	1892.9	1909.1	1918.4	1957.8	1997.2	2032.0	2059.9	2113.2	2131.8	2124.8
10°	1909.1	1923.0	1934.6	1962.4	2011.2	2071.5	2101.6	2171.2	2231.5	2273.3	2282.6
12.5°	1939.3	1960.1	1992.6	2059.9	2103.9	2182.8	2224.6	2291.8	2375.4	2421.7	2454.2
15°	1997.2	2004.2	2046.0	2131.8	2226.9	2298.8	2363.8	2412.5	2493.7	2547.0	2549.3
17.5°	2071.5	2101.6	2159.6	2240.8	2340.6	2447.3	2498.3	2551.6	2581.8	2653.7	2670.0
20°	2219.9	2224.6	2280.2	2387.0	2512.2	2609.6	2646.8	2674.6	2663.0	2737.2	2751.1
22.5°	2359.1	2363.8	2433.3	2577.2	2711.7	2795.2	2811.5	2795.2	2760.4	2813.8	2818.4
25°	2500.6	2542.4	2593.4	2737.2	2904.2	3015.6	3017.9	2973.8	2901.9	2911.2	2934.4
27.5°	2721.0	2751.1	2804.5	2936.7	3120.0	3245.2	3224.4	3171.0	3078.2	3085.2	3078.2
30°	2978.5	3006.3	3050.4	3219.7	3354.3	3491.1	3521.3	3470.2	3331.1	3300.9	3335.7
32.5°	3289.3	3328.7	3409.9	3565.3	3679.0	3762.5	3783.4	3764.8	3634.9	3623.3	3646.5
35°	3667.4	3720.8	3795.0	3931.9	4024.6	4175.4	4175.4	4112.8	3994.5	4008.4	4006.1
37.5°	4066.4	4145.3	4261.3	4400.4	4525.7	4606.9	4581.4	4528.0	4409.7	4379.6	4409.7
40°	4567.4	4606.9	4753.0	4934.0	5087.1	5179.8	5070.8	4954.8	4671.8	4715.9	4797.1
42.5°	5024.4	5087.1	5198.4	5397.9	5571.9	5648.4	5518.5	5288.9	4947.9	4913.1	4973.4
45°	5414.1	5481.4	5627.5	5912.9	6096.1	6163.4	5875.7	5504.6	5114.9	5026.7	5052.3
47.5°	5673.9	5708.7	5912.9	6184.3	6351.3	6504.4	6091.5	5653.1	5193.8	5026.7	5017.5
50°	5574.2	5634.5	5873.4	6181.9	6485.8	6594.8	6200.5	5766.7	5219.3	5005.9	4978.0
52.5°	4950.2	5054.6	5321.3	5736.6	6195.9	6585.6	6351.3	5729.6	5210.0	5026.7	5068.5
55°	3444.7	3447.0	3771.8	4384.2	5196.1	6114.7	6130.9	5771.4	5270.3	5156.6	5159.0
57.5°	1384.8	1454.4	1702.6	2317.4	3066.6	4198.6	4992.0	5353.8	5277.3	5249.4	5321.3
60°	350.3	352.6	429.1	654.1	1078.7	1800.1	2614.3	3537.5	4073.4	4256.6	4282.1
62.5°	178.6	180.9	199.5	232.0	294.6	482.5	858.3	1361.7	1936.9	2229.2	2305.8
65°	146.1	146.1	157.7	174.0	176.3	185.6	222.7	317.8	461.6	524.2	531.2
67.5°	111.3	111.3	120.6	129.9	134.5	132.2	127.6	132.2	160.1	153.1	148.5
70°	69.6	71.9	76.5	85.8	90.5	92.8	95.1	99.7	113.7	118.3	113.7
72.5°	41.8	41.8	44.1	51.0	58.0	62.6	69.6	74.2	81.2	92.8	90.5
75°	18.6	18.6	23.2	30.2	37.1	44.1	51.0	58.0	62.6	69.6	71.9
77.5°	4.6	7.0	11.6	20.9	27.8	37.1	46.4	53.4	58.0	58.0	55.7
80°	2.3	2.3	9.3	16.2	30.2	39.4	51.0	55.7	62.6	58.0	51.0
82.5°	2.3	2.3	9.3	16.2	27.8	39.4	53.4	60.3	65.0	58.0	48.7
85°	0.0	2.3	7.0	13.9	23.2	27.8	23.2	16.2	9.3	9.3	7.0
87.5°	0.0	0.0	2.3	2.3	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)