

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: P533578

Luminaire Tested: **GALN-SA9A-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533578
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-SA9A-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 34088 lumens
Efficiency: N/A
Efficacy: 124.4 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

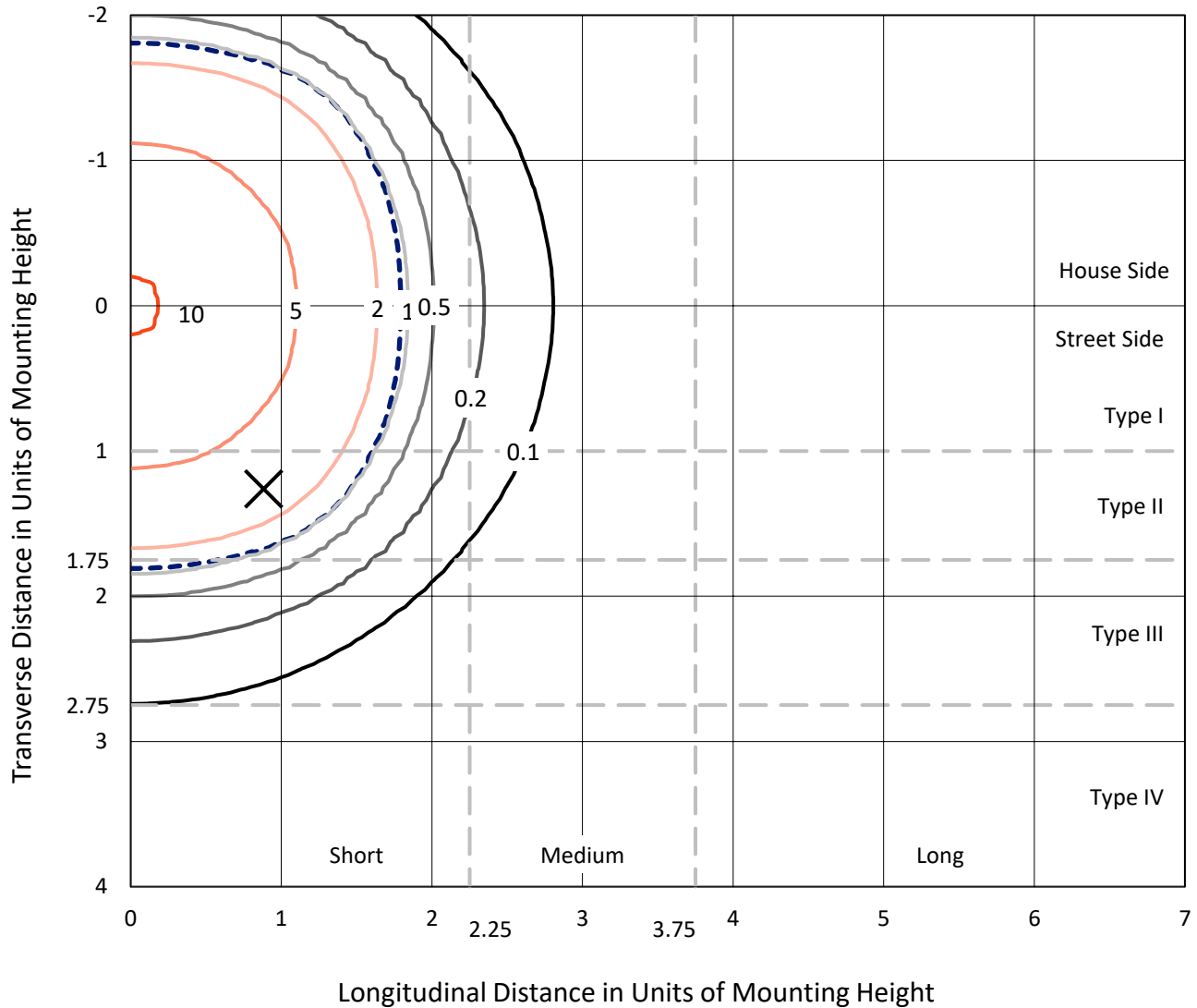
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

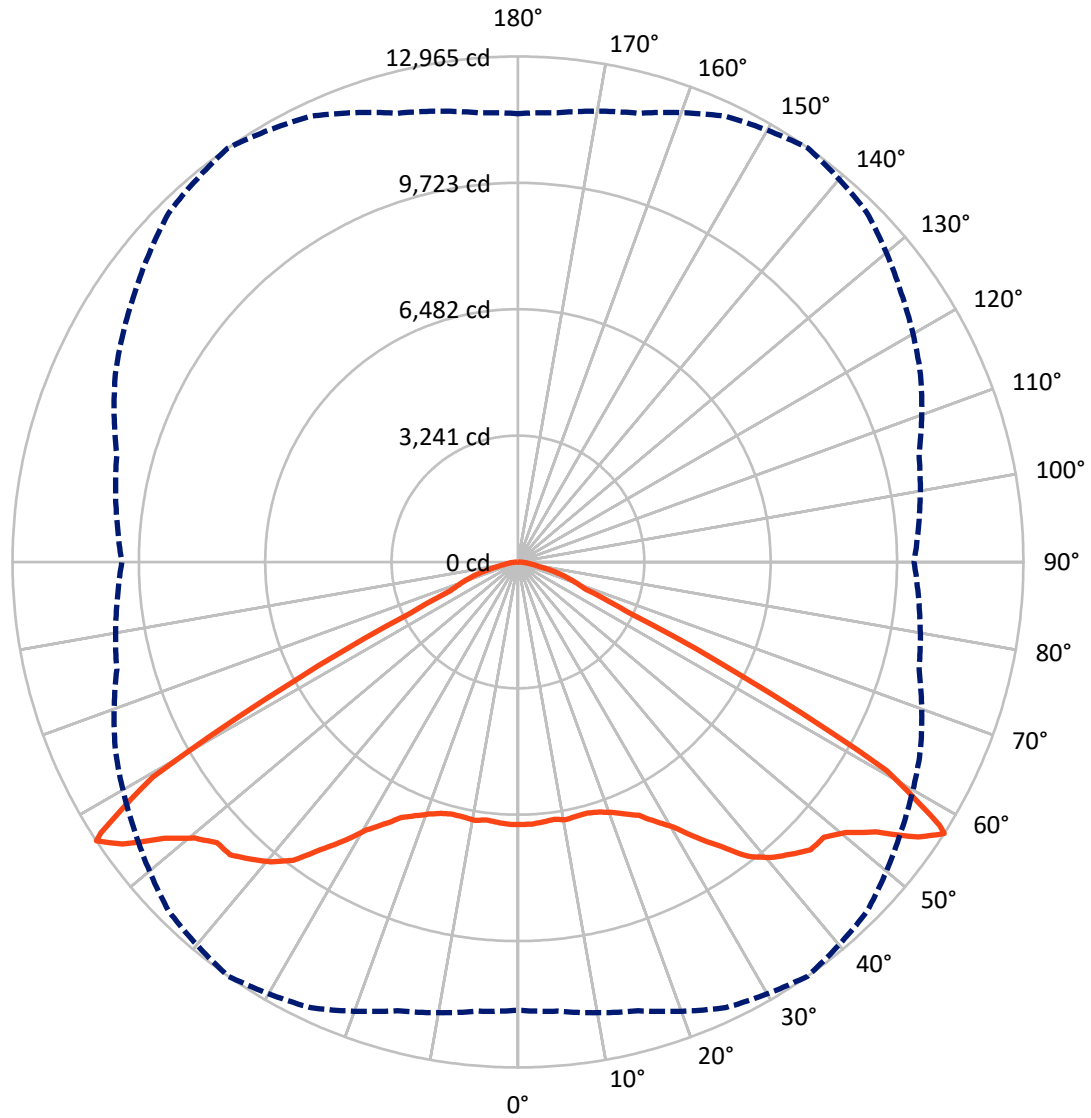
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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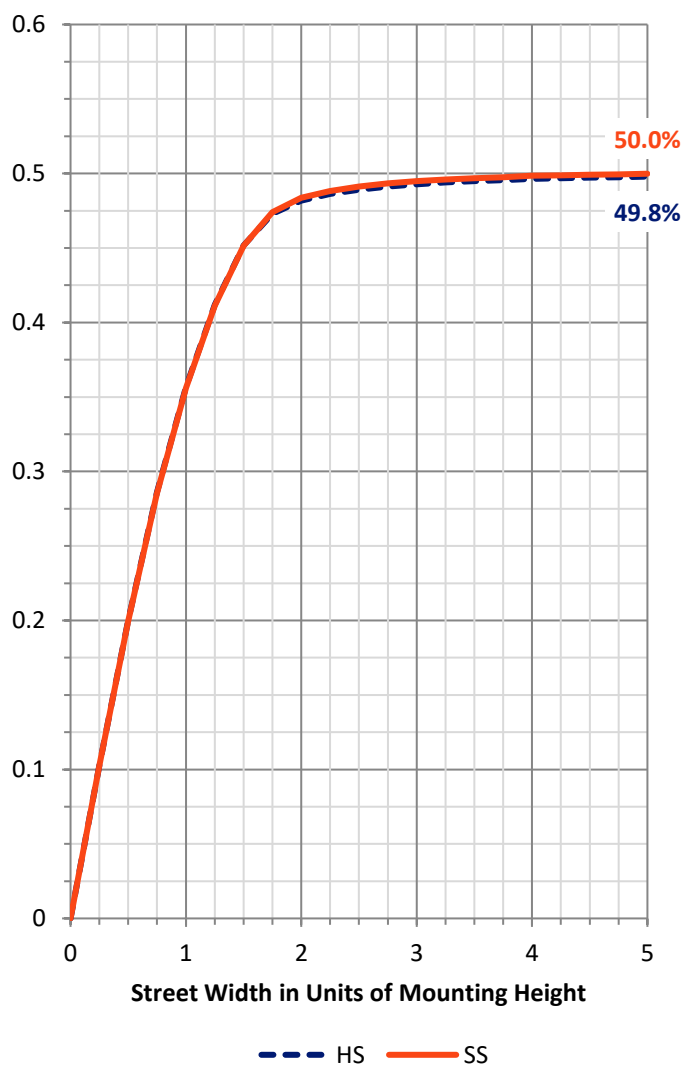
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17044.0	0.0	17044.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17044.0	0.0	17044.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34088.0	0.0	34088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.2	1.9
10°-20°	1890.2	5.5
20°-30°	3301.3	9.7
30°-40°	5409.3	15.9
40°-50°	7931.3	23.3
50°-60°	9990.1	29.3
60°-70°	3757.2	11.0
70°-80°	999.0	2.9
80°-90°	171.3	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°	34088.0	100.0
0°-180°	34088.0	100.0

Coefficient of Utilization



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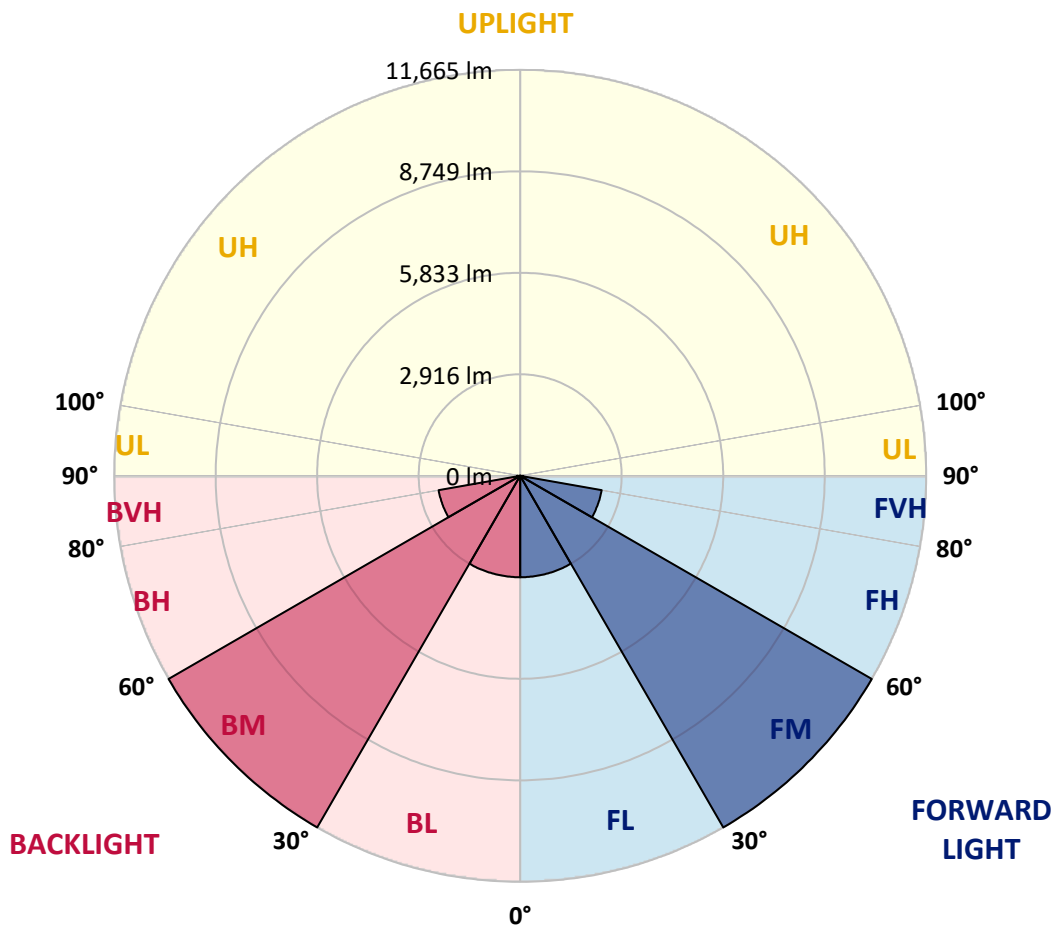
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2914.9	8.6			
FM (30°-60°)	11665.4	34.2			
FH (60°-80°)	2378.1	7.0			G2/5000
FVH (80°-90°)	85.7	0.3			G1/100
BL (0°-30°)	2914.9	8.6	B4/5000		
BM (30°-60°)	11665.4	34.2	B5		
BH (60°-80°)	2378.1	7.0	B3/2500		G2/5000
BVH (80°-90°)	85.7	0.3			G1/100
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°	6732.1	6732.1	6732.1	6732.1	6732.1	6732.1	6732.1	6732.1	6732.1	6732.1	6732.1
2.5°	6698.5	6765.7	6736.3	6719.5	6732.1	6711.1	6677.5	6715.3	6706.9	6673.3	6660.7
5°	6681.7	6732.1	6698.5	6732.1	6698.5	6757.3	6740.5	6677.5	6753.1	6681.7	6706.9
7.5°	6669.1	6685.9	6694.3	6677.5	6664.9	6736.3	6698.5	6669.1	6627.1	6614.5	6635.5
10°	6639.7	6681.7	6618.7	6702.7	6719.5	6669.1	6669.1	6614.5	6580.9	6559.9	6631.3
12.5°	6715.3	6643.9	6635.5	6677.5	6690.1	6711.1	6652.3	6622.9	6559.9	6568.3	6555.7
15°	6627.1	6656.5	6660.7	6669.1	6681.7	6732.1	6677.5	6614.5	6589.3	6501.1	6509.5
17.5°	6660.7	6631.3	6660.7	6757.3	6740.5	6778.3	6719.5	6622.9	6564.1	6513.7	6580.9
20°	6719.5	6706.9	6719.5	6837.1	6858.1	6891.7	6841.3	6753.1	6639.7	6580.9	6614.5
22.5°	6782.5	6774.1	6782.5	6895.9	7017.7	7059.7	7009.3	6803.5	6744.7	6635.5	6597.7
25°	6895.9	6904.3	6992.5	7118.5	7198.3	7278.1	7185.7	7038.7	6849.7	6782.5	6702.7
27.5°	7147.9	7168.9	7219.3	7404.1	7542.7	7614.1	7483.9	7282.3	7164.7	7026.1	7005.1
30°	7458.7	7458.7	7546.9	7706.5	7895.4	8004.6	7845.1	7605.7	7462.9	7387.3	7341.1
32.5°	7870.2	7824.1	7857.7	8139.0	8433.0	8525.4	8311.2	8017.2	7790.5	7689.7	7656.1
35°	8223.0	8252.4	8328.0	8630.4	8958.0	9172.2	8836.2	8454.0	8223.0	8130.6	8113.8
37.5°	8680.8	8731.2	8769.0	9184.8	9579.5	9659.3	9335.9	9029.4	8748.0	8672.4	8630.4
40°	9327.5	9293.9	9306.5	9613.1	9970.1	10020.5	9701.3	9482.9	9252.0	9205.8	9205.8
42.5°	9860.9	9823.1	9865.1	9978.5	10251.5	10213.7	10037.3	9877.7	9781.1	9730.7	9781.1
45°	10184.3	10175.9	10251.5	10335.5	10528.7	10402.7	10264.1	10289.3	10196.9	10112.9	10108.7
47.5°	10537.1	10482.5	10574.9	10700.9	10553.9	10495.1	10486.7	10541.3	10511.9	10364.9	10318.7
50°	10709.3	10688.3	10835.2	10982.2	10902.4	10768.0	10797.4	10885.6	10507.7	10310.3	10196.9
52.5°	11171.2	11175.4	11456.8	11536.6	11503.0	11305.6	11368.6	11129.2	10684.1	10406.9	10419.5
55°	11897.8	11868.4	12183.3	12418.5	12456.3	12204.3	11902.0	11566.0	11007.4	10726.0	10642.1
57°	11498.8	11566.0	11914.6	12611.7	12964.5	12666.3	12007.0	11393.8	10650.5	10310.3	10159.1
57.5°	10965.4	11074.6	11679.4	12380.7	12750.3	12725.1	11876.8	11074.6	10411.1	9881.9	9894.5
60°	8034.0	8055.0	8601.0	9713.9	10868.8	10894.0	9860.9	8798.4	8059.2	7483.9	7563.7
62.5°	4237.5	4334.1	4552.5	5447.0	6446.5	6690.1	6064.4	5518.4	4880.1	4443.3	4485.3
65°	2242.6	2230.0	2335.0	2587.0	3078.4	3204.4	3120.4	2687.8	2465.2	2393.8	2398.0
67.5°	1822.7	1843.7	1831.1	1843.7	1877.3	1931.9	1919.3	1936.1	1948.7	1969.7	1965.5
70°	1545.5	1545.5	1553.9	1558.1	1558.1	1583.3	1612.7	1667.3	1671.5	1692.5	1700.9
72.5°	1217.9	1209.5	1222.1	1251.5	1255.7	1276.7	1318.7	1352.3	1364.9	1364.9	1339.7
75°	827.3	835.7	852.5	877.7	902.9	940.7	974.3	995.3	1003.7	991.1	978.5
77.5°	466.2	474.6	487.2	525.0	554.4	588.0	625.8	646.8	667.8	672.0	646.8
80°	277.2	277.2	298.2	327.6	361.2	394.8	428.4	453.6	462.0	462.0	449.4
82.5°	168.0	172.2	189.0	218.4	247.8	268.8	298.2	319.2	336.0	331.8	323.4
85°	88.2	88.2	105.0	130.2	151.2	172.2	172.2	159.6	151.2	130.2	121.8
87.5°	29.4	25.2	33.6	33.6	29.4	33.6	33.6	37.8	37.8	37.8	37.8
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)