

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: P533114

Luminaire Tested: **GALN-SA8C-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533114
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-SA8C-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 44866 lumens
Efficiency: N/A
Efficacy: 104.6 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

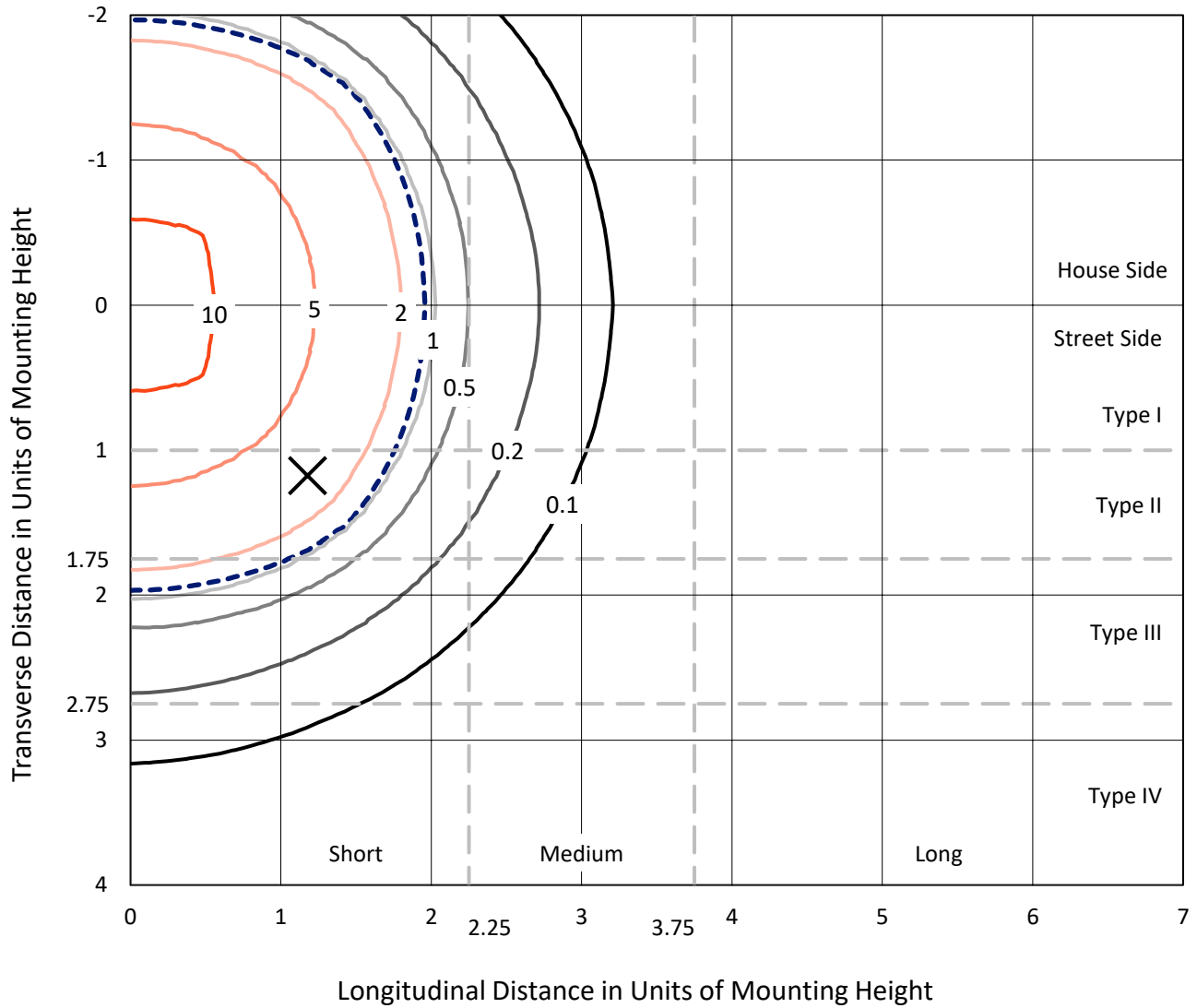
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

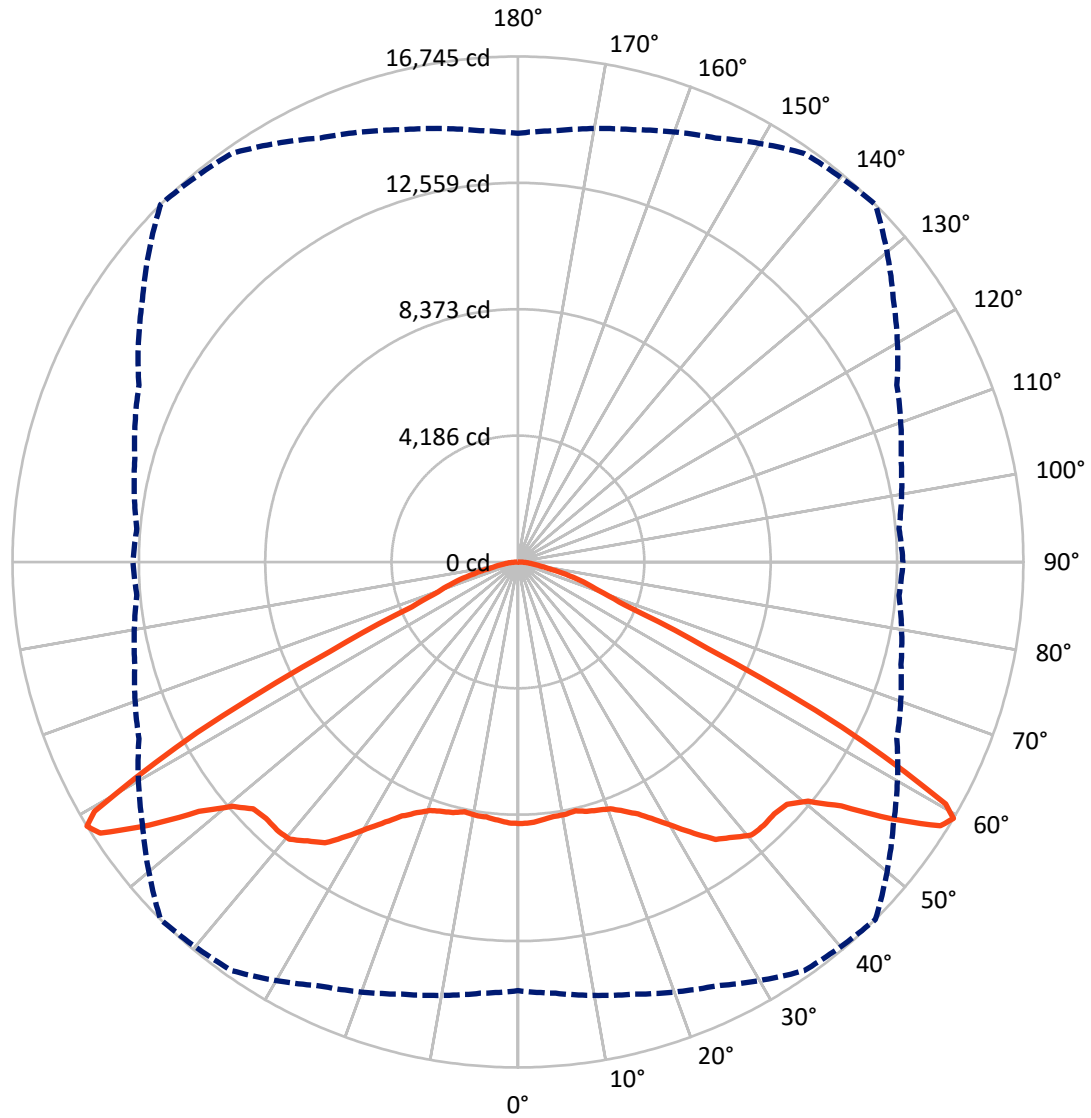
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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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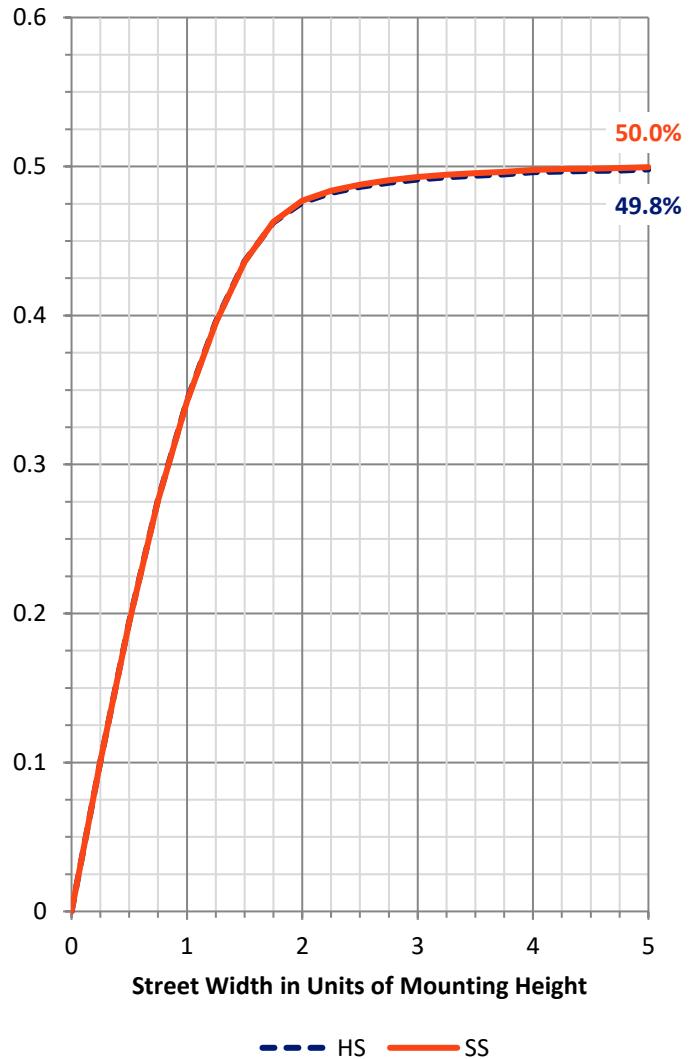
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22433.0	0.0	22433.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22433.0	0.0	22433.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44866.0	0.0	44866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.9	1.8
10°-20°	2429.4	5.4
20°-30°	4242.0	9.5
30°-40°	6775.0	15.1
40°-50°	9229.0	20.6
50°-60°	12480.0	27.8
60°-70°	6844.1	15.3
70°-80°	1750.9	3.9
80°-90°	298.6	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°	44866.0	100.0
0°-180°	44866.0	100.0

Coefficient of Utilization



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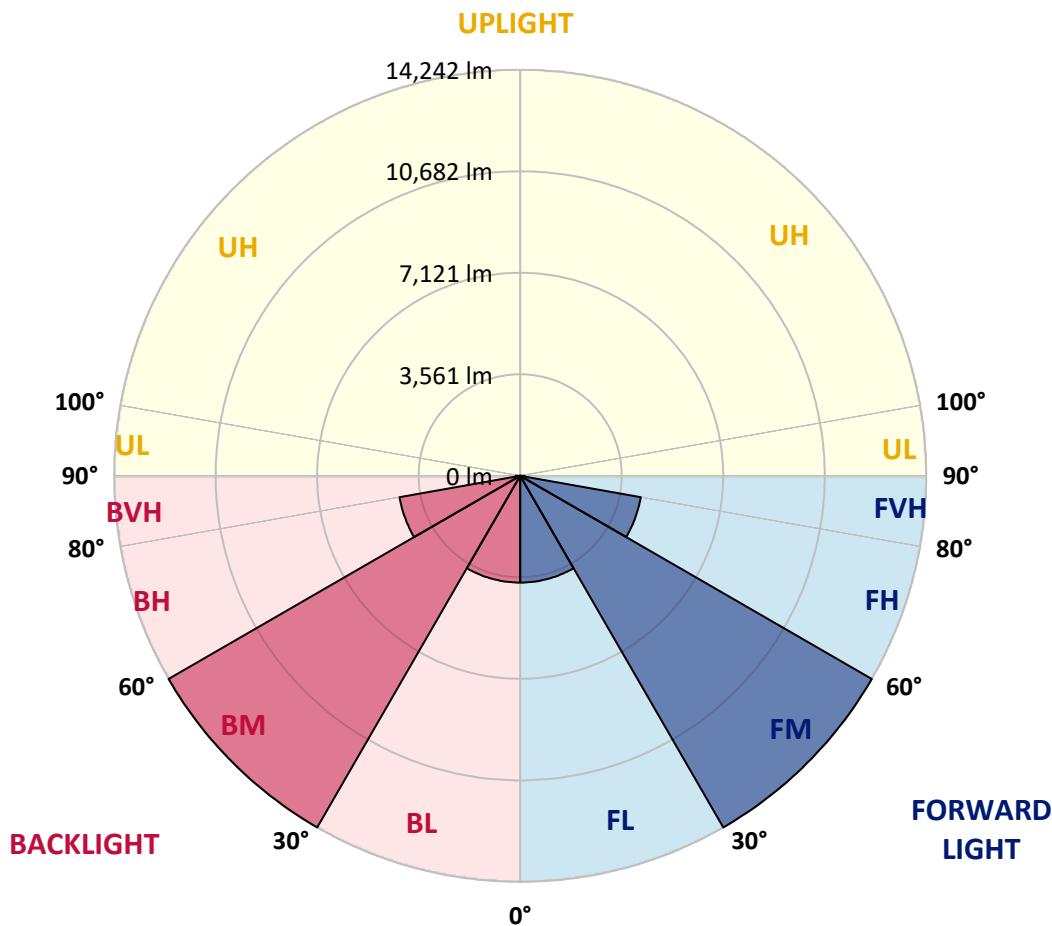
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3744.1	8.3			
FM (30°-60°)	14242.0	31.7			
FH (60°-80°)	4297.5	9.6			G2/5000
FVH (80°-90°)	149.3	0.3			G2/225
BL (0°-30°)	3744.1	8.3	B4/5000		
BM (30°-60°)	14242.0	31.7	B5		
BH (60°-80°)	4297.5	9.6	B4/5000		G2/5000
BVH (80°-90°)	149.3	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°	8666.0	8666.0	8666.0	8666.0	8666.0	8666.0	8666.0	8666.0	8666.0	8666.0	8666.0
2.5°	8614.2	8677.5	8631.5	8671.7	8666.0	8648.7	8620.0	8602.7	8579.7	8614.2	8556.7
5°	8579.7	8631.5	8683.2	8614.2	8614.2	8579.7	8562.5	8528.0	8528.0	8522.2	8516.5
7.5°	8637.2	8585.5	8562.5	8574.0	8585.5	8510.7	8562.5	8493.5	8435.9	8476.2	8522.2
10°	8585.5	8608.5	8522.2	8562.5	8499.2	8510.7	8476.2	8522.2	8458.9	8458.9	8458.9
12.5°	8637.2	8574.0	8602.7	8574.0	8556.7	8458.9	8505.0	8453.2	8447.4	8505.0	8453.2
15°	8740.7	8637.2	8614.2	8556.7	8574.0	8574.0	8528.0	8533.7	8470.4	8505.0	8516.5
17.5°	8706.2	8648.7	8631.5	8562.5	8620.0	8637.2	8551.0	8493.5	8533.7	8528.0	8522.2
20°	8735.0	8758.0	8740.7	8752.2	8775.2	8729.2	8648.7	8568.2	8516.5	8591.2	8585.5
22.5°	8919.0	8896.0	8884.5	8873.0	8913.2	8959.2	8850.0	8723.5	8723.5	8775.2	8798.2
25°	9068.5	9062.7	9057.0	9108.8	9246.8	9246.8	9108.8	8947.7	8907.5	8942.0	8913.2
27.5°	9287.0	9350.3	9327.3	9419.3	9620.5	9666.5	9482.5	9292.8	9183.5	9143.3	9195.0
30°	9787.3	9712.6	9729.8	9827.6	10005.8	10155.3	9873.6	9672.3	9522.8	9517.0	9540.0
32.5°	10120.8	10178.3	10230.1	10322.1	10603.9	10718.9	10379.6	10051.8	9959.8	9908.1	9925.3
35°	10787.9	10736.1	10724.6	10816.6	11098.4	11288.2	10862.6	10575.1	10454.4	10569.4	10569.4
37.5°	11420.4	11276.7	11167.4	11288.2	11547.0	11570.0	11207.7	11052.4	10989.2	11121.4	11115.7
40°	11719.5	11708.0	11454.9	11524.0	11869.0	11903.5	11564.2	11380.2	11368.7	11541.2	11713.7
42.5°	12030.0	11920.7	11667.7	11713.7	11926.5	11938.0	11616.0	11564.2	11690.7	11857.5	11869.0
45°	12081.7	11989.7	11828.7	11713.7	11869.0	11903.5	11713.7	11748.2	11759.7	11961.0	11961.0
47.5°	12185.3	12173.8	12081.7	11995.5	12024.2	11995.5	11874.7	11926.5	12099.0	12196.8	12150.8
50°	12472.8	12352.0	12444.0	12369.3	12375.0	12455.5	12346.3	12398.0	12363.5	12277.3	12219.8
52.5°	13105.3	13047.8	13128.3	13180.1	13237.6	13421.6	13295.1	13019.1	12760.3	12530.3	12524.5
55°	14031.2	14071.4	14226.7	14491.2	14715.5	15008.7	14399.2	13737.9	13323.9	12961.6	12984.6
57.5°	14905.2	14876.5	15089.2	15693.0	16348.6	16498.1	15302.0	14358.9	13686.1	13456.1	13358.4
59°	14203.7	14341.7	14824.7	15497.5	16526.9	16745.4	15181.3	13852.9	13139.8	12674.0	12754.6
60°	13099.6	13151.3	13582.6	14519.9	15911.6	16285.3	14370.4	13070.8	12122.0	11851.7	11972.5
62.5°	9258.3	9218.0	9528.5	10293.3	11541.2	12047.2	10684.4	9770.1	9172.0	8873.0	8942.0
65°	4922.4	5106.4	5232.9	5710.2	6371.5	6906.3	6342.8	5946.0	5612.5	5365.2	5359.4
67.5°	3323.8	3300.8	3329.5	3438.8	3663.1	3812.6	3801.1	3599.8	3571.0	3525.0	3576.8
70°	2800.5	2789.0	2737.2	2737.2	2783.2	2817.7	2858.0	2881.0	2927.0	2984.5	2978.7
72.5°	2271.4	2242.7	2208.2	2190.9	2248.4	2265.7	2317.4	2340.4	2380.7	2374.9	2426.7
75°	1500.9	1500.9	1541.1	1587.1	1604.4	1638.9	1644.6	1713.6	1713.6	1725.1	1679.1
77.5°	839.6	816.6	845.3	891.3	931.6	994.8	1058.1	1109.8	1138.6	1127.1	1127.1
80°	488.8	488.8	517.5	569.3	621.1	678.6	724.6	764.8	793.6	782.1	759.1
82.5°	304.8	304.8	333.5	385.3	425.5	460.0	523.3	575.0	609.6	598.0	569.3
85°	155.3	155.3	189.8	224.3	276.0	299.0	293.3	270.3	264.5	235.8	235.8
87.5°	40.3	40.3	57.5	63.3	51.8	57.5	57.5	57.5	57.5	57.5	63.3
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)