

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: P533110

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533110
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-SA8C-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 46679 lumens
Efficiency: N/A
Efficacy: 108.8 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

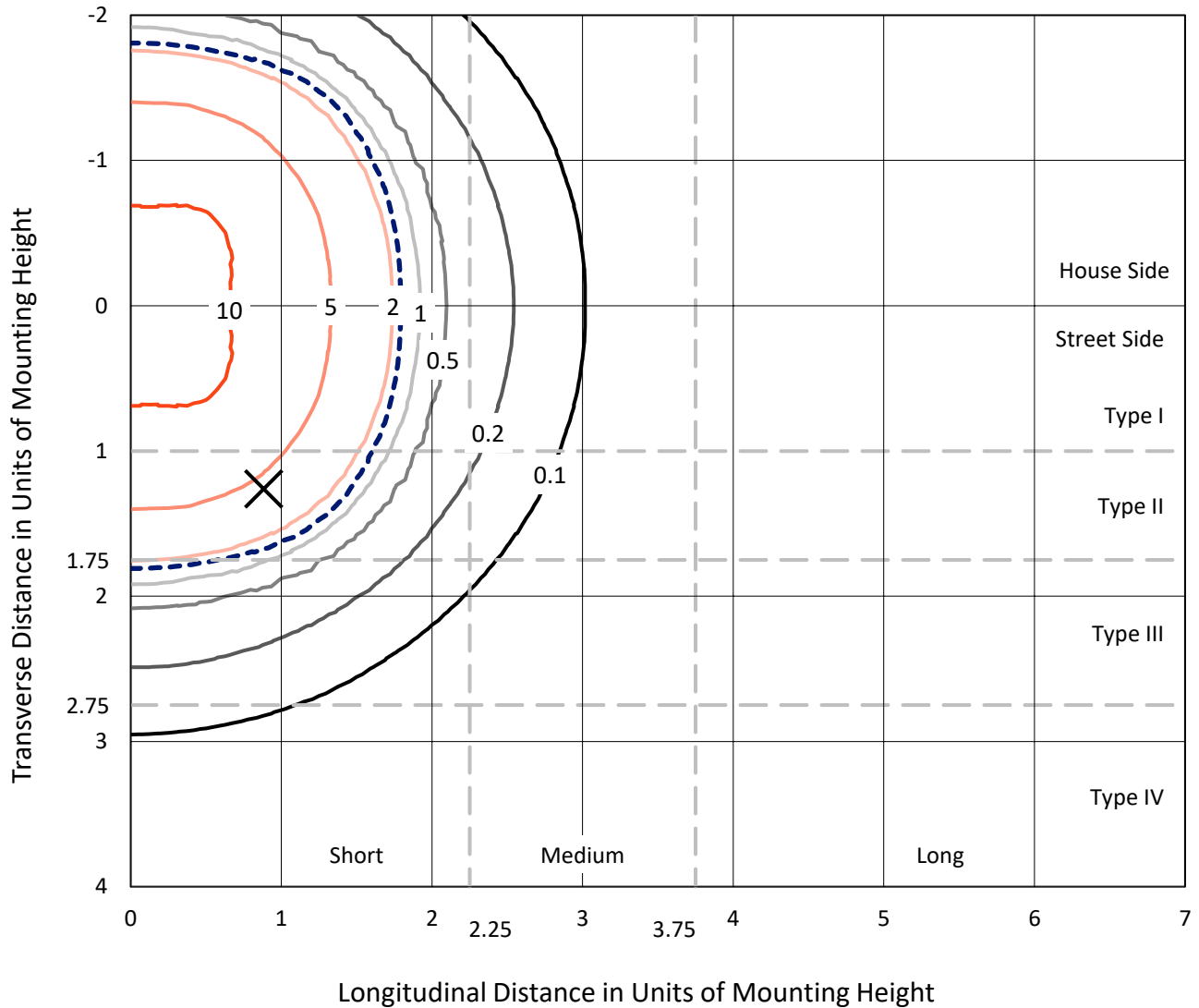
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

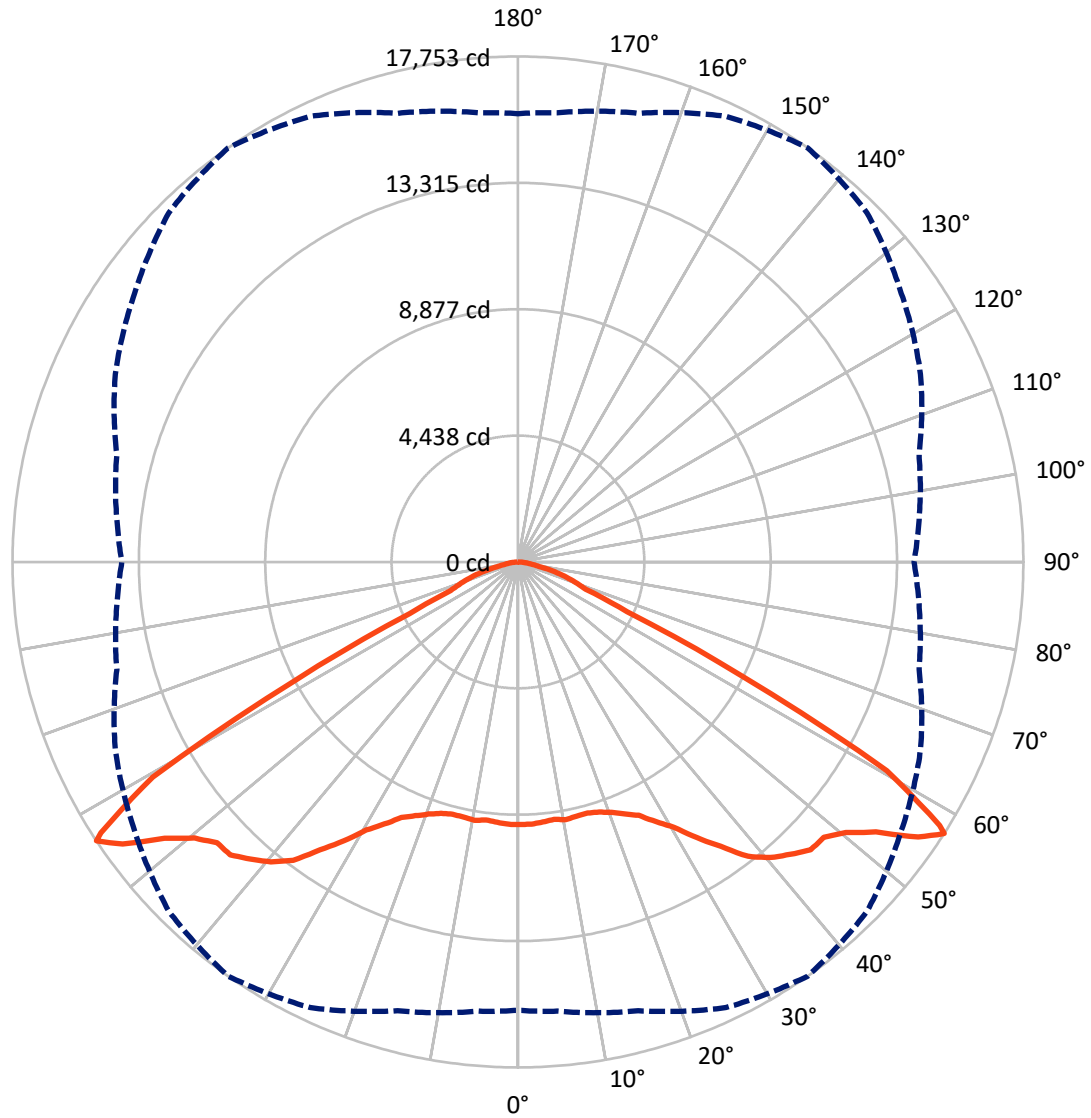
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	23339.5	0.0	23339.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23339.5	0.0	23339.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46679.0	0.0	46679.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.0	1.9
10°-20°	2588.5	5.5
20°-30°	4520.7	9.7
30°-40°	7407.3	15.9
40°-50°	10860.9	23.3
50°-60°	13680.1	29.3
60°-70°	5145.0	11.0
70°-80°	1368.0	2.9
80°-90°	234.6	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°	46679.0	100.0
0°-180°	46679.0	100.0

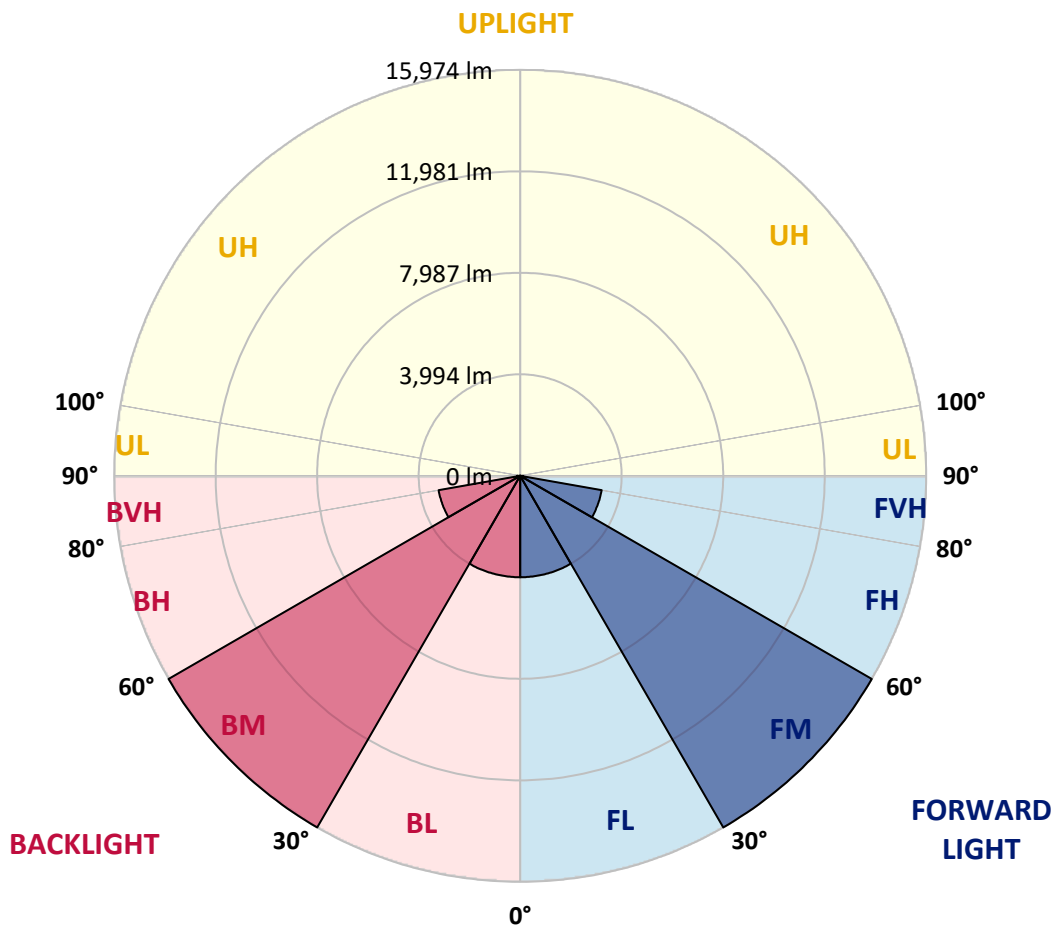


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3991.6	8.6			
FM (30°-60°)	15974.2	34.2			
FH (60°-80°)	3256.5	7.0			G2/5000
FVH (80°-90°)	117.3	0.3			G2/225
BL (0°-30°)	3991.6	8.6	B4/5000		
BM (30°-60°)	15974.2	34.2	B5		
BH (60°-80°)	3256.5	7.0	B4/5000		G2/5000
BVH (80°-90°)	117.3	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°	9218.8	9218.8	9218.8	9218.8	9218.8	9218.8	9218.8	9218.8	9218.8	9218.8	9218.8
2.5°	9172.8	9264.8	9224.5	9201.5	9218.8	9190.0	9144.0	9195.8	9184.3	9138.2	9121.0
5°	9149.7	9218.8	9172.8	9218.8	9172.8	9253.3	9230.3	9144.0	9247.5	9149.7	9184.3
7.5°	9132.5	9155.5	9167.0	9144.0	9126.7	9224.5	9172.8	9132.5	9075.0	9057.7	9086.5
10°	9092.2	9149.7	9063.5	9178.5	9201.5	9132.5	9132.5	9057.7	9011.7	8983.0	9080.7
12.5°	9195.8	9098.0	9086.5	9144.0	9161.2	9190.0	9109.5	9069.2	8983.0	8994.5	8977.2
15°	9075.0	9115.2	9121.0	9132.5	9149.7	9218.8	9144.0	9057.7	9023.2	8902.5	8914.0
17.5°	9121.0	9080.7	9121.0	9253.3	9230.3	9282.0	9201.5	9069.2	8988.7	8919.7	9011.7
20°	9201.5	9184.3	9201.5	9362.5	9391.3	9437.3	9368.3	9247.5	9092.2	9011.7	9057.7
22.5°	9287.8	9276.3	9287.8	9443.0	9609.8	9667.3	9598.3	9316.5	9236.0	9086.5	9034.7
25°	9443.0	9454.5	9575.3	9747.8	9857.1	9966.4	9839.9	9638.6	9379.8	9287.8	9178.5
27.5°	9788.1	9816.9	9885.9	10138.9	10328.7	10426.5	10248.2	9972.1	9811.1	9621.3	9592.6
30°	10213.7	10213.7	10334.4	10553.0	10811.8	10961.3	10742.8	10415.0	10219.4	10115.9	10052.6
32.5°	10777.3	10714.0	10760.0	11145.3	11547.9	11674.4	11381.1	10978.5	10668.0	10530.0	10484.0
35°	11260.3	11300.6	11404.1	11818.2	12266.8	12560.1	12100.0	11576.6	11260.3	11133.8	11110.8
37.5°	11887.2	11956.2	12008.0	12577.3	13117.9	13227.2	12784.3	12364.5	11979.2	11875.7	11818.2
40°	12772.8	12726.8	12744.1	13163.9	13652.7	13721.7	13284.7	12985.6	12669.3	12606.1	12606.1
42.5°	13503.2	13451.5	13509.0	13664.2	14038.0	13986.3	13744.7	13526.2	13393.9	13324.9	13393.9
45°	13946.0	13934.5	14038.0	14153.1	14417.6	14245.1	14055.3	14089.8	13963.3	13848.3	13842.5
47.5°	14429.1	14354.3	14480.9	14653.4	14452.1	14371.6	14360.1	14434.9	14394.6	14193.3	14130.1
50°	14664.9	14636.1	14837.4	15038.7	14929.4	14745.4	14785.7	14906.4	14388.9	14118.6	13963.3
52.5°	15297.5	15303.3	15688.6	15797.8	15751.8	15481.5	15567.8	15240.0	14630.4	14250.8	14268.1
55°	16292.4	16252.2	16683.5	17005.5	17057.3	16712.2	16298.2	15838.1	15073.2	14687.9	14572.9
57°	15746.1	15838.1	16315.4	17270.1	17753.2	17344.8	16441.9	15602.3	14584.4	14118.6	13911.5
57.5°	15015.7	15165.2	15993.4	16953.8	17459.9	17425.4	16263.7	15165.2	14256.6	13532.0	13549.2
60°	11001.6	11030.3	11777.9	13301.9	14883.4	14917.9	13503.2	12048.2	11036.1	10248.2	10357.4
62.5°	5802.7	5935.0	6234.0	7459.0	8827.7	9161.2	8304.4	7556.7	6682.6	6084.5	6142.0
65°	3071.0	3053.7	3197.5	3542.6	4215.4	4388.0	4272.9	3680.6	3375.8	3278.0	3283.8
67.5°	2495.9	2524.7	2507.4	2524.7	2570.7	2645.4	2628.2	2651.2	2668.4	2697.2	2691.4
70°	2116.3	2116.3	2127.8	2133.6	2133.6	2168.1	2208.4	2283.1	2288.9	2317.6	2329.1
72.5°	1667.8	1656.3	1673.5	1713.8	1719.5	1748.3	1805.8	1851.8	1869.1	1869.1	1834.6
75°	1132.9	1144.4	1167.4	1201.9	1236.5	1288.2	1334.2	1363.0	1374.5	1357.2	1340.0
77.5°	638.4	649.9	667.1	718.9	759.1	805.1	856.9	885.6	914.4	920.2	885.6
80°	379.6	379.6	408.3	448.6	494.6	540.6	586.6	621.1	632.6	632.6	615.4
82.5°	230.0	235.8	258.8	299.0	339.3	368.1	408.3	437.1	460.1	454.3	442.8
85°	120.8	120.8	143.8	178.3	207.0	235.8	235.8	218.5	207.0	178.3	166.8
87.5°	40.3	34.5	46.0	46.0	40.3	46.0	46.0	51.8	51.8	51.8	51.8
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)