

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: P533344

Luminaire Tested: **GALN-SA8D-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533344  
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-SA8D-735-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA 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: 51363 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

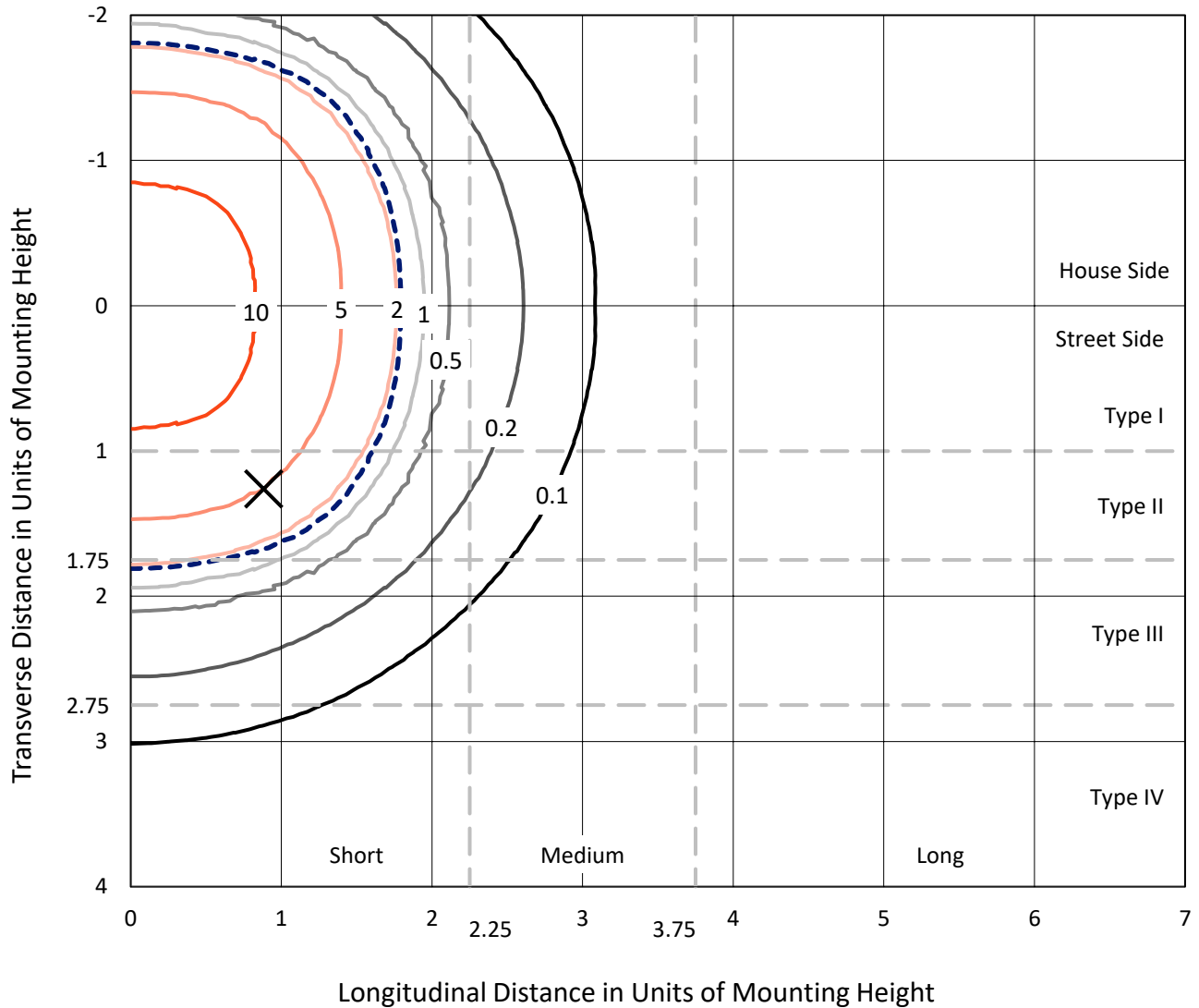
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

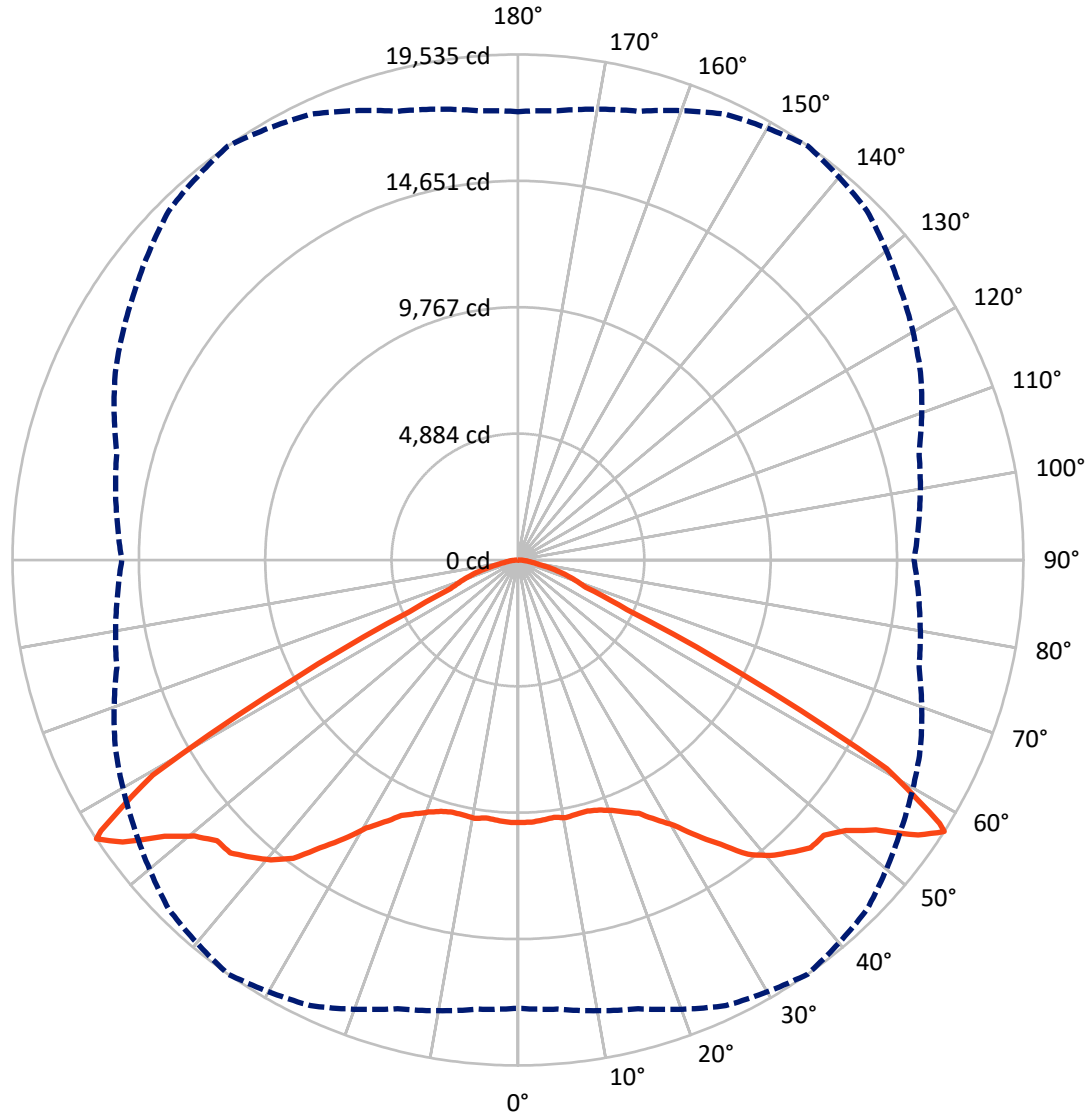
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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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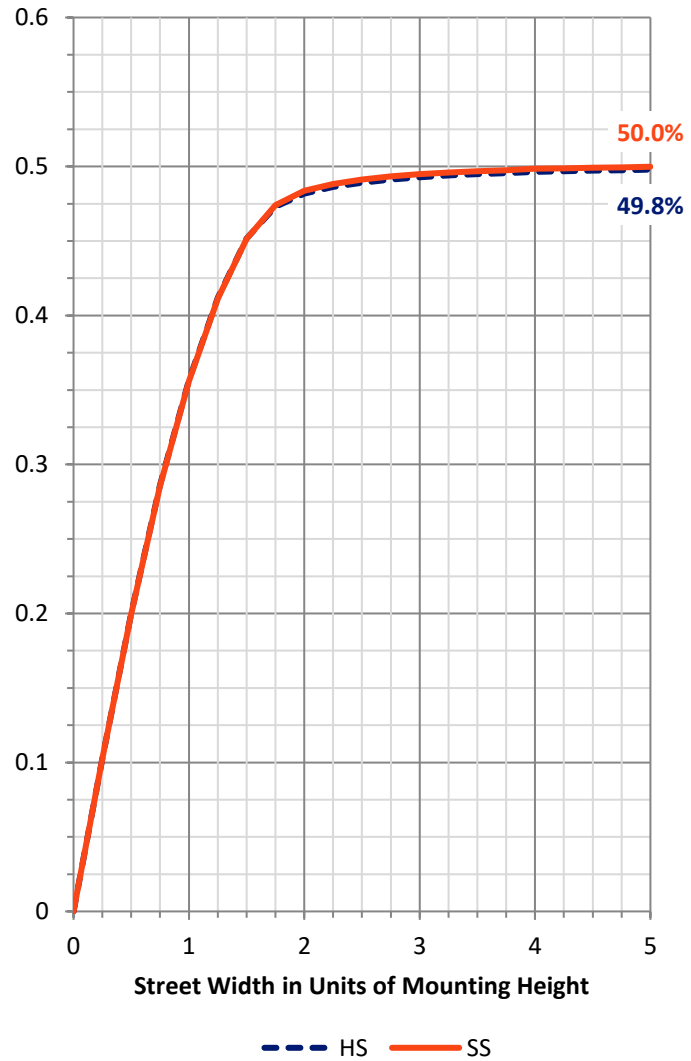
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25681.5	0.0	25681.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25681.5	0.0	25681.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51363.0	0.0	51363.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	961.7	1.9
10°-20°	2848.2	5.5
20°-30°	4974.3	9.7
30°-40°	8150.6	15.9
40°-50°	11950.7	23.3
50°-60°	15052.9	29.3
60°-70°	5661.2	11.0
70°-80°	1505.3	2.9
80°-90°	258.1	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°	51363.0	100.0
0°-180°	51363.0	100.0



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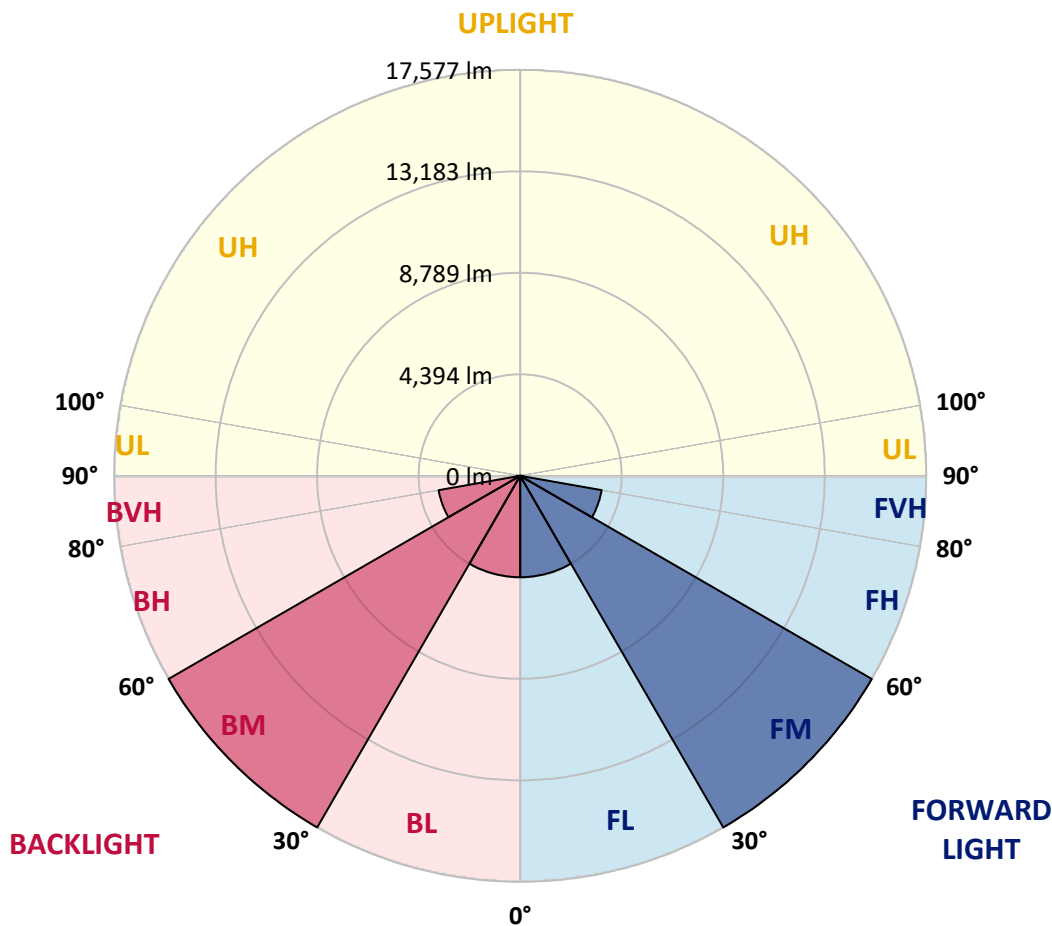
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4392.1	8.6			
FM (30°-60°)	17577.1	34.2			
FH (60°-80°)	3583.3	7.0			G2/5000
FVH (80°-90°)	129.1	0.3			G2/225
BL (0°-30°)	4392.1	8.6	B4/5000		
BM (30°-60°)	17577.1	34.2	B5		
BH (60°-80°)	3583.3	7.0	B4/5000		G2/5000
BVH (80°-90°)	129.1	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°	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8
2.5°	10093.2	10194.4	10150.1	10124.8	10143.8	10112.2	10061.5	10118.5	10105.8	10055.2	10036.2
5°	10067.9	10143.8	10093.2	10143.8	10093.2	10181.8	10156.5	10061.5	10175.5	10067.9	10105.8
7.5°	10048.9	10074.2	10086.9	10061.5	10042.6	10150.1	10093.2	10048.9	9985.6	9966.6	9998.3
10°	10004.6	10067.9	9973.0	10099.5	10124.8	10048.9	10048.9	9966.6	9916.0	9884.4	9991.9
12.5°	10118.5	10010.9	9998.3	10061.5	10080.5	10112.2	10023.6	9979.3	9884.4	9897.0	9878.0
15°	9985.6	10029.9	10036.2	10048.9	10067.9	10143.8	10061.5	9966.6	9928.7	9795.8	9808.4
17.5°	10036.2	9991.9	10036.2	10181.8	10156.5	10213.4	10124.8	9979.3	9890.7	9814.8	9916.0
20°	10124.8	10105.8	10124.8	10302.0	10333.7	10384.3	10308.3	10175.5	10004.6	9916.0	9966.6
22.5°	10219.8	10207.1	10219.8	10390.6	10574.1	10637.4	10561.5	10251.4	10162.8	9998.3	9941.3
25°	10390.6	10403.3	10536.2	10726.0	10846.2	10966.5	10827.2	10605.8	10321.0	10219.8	10099.5
27.5°	10770.3	10801.9	10877.9	11156.3	11365.1	11472.7	11276.5	10972.8	10795.6	10586.8	10555.1
30°	11238.6	11238.6	11371.4	11611.9	11896.7	12061.2	11820.7	11460.0	11244.9	11131.0	11061.4
32.5°	11858.7	11789.1	11839.7	12263.7	12706.7	12845.9	12523.1	12080.2	11738.5	11586.6	11536.0
35°	12390.3	12434.6	12548.5	13004.1	13497.7	13820.4	13314.2	12738.3	12390.3	12251.0	12225.7
37.5°	13080.0	13156.0	13212.9	13839.4	14434.2	14554.4	14067.2	13605.2	13181.3	13067.4	13004.1
40°	14054.5	14003.9	14022.9	14484.8	15022.7	15098.7	14617.7	14288.7	13940.6	13871.0	13871.0
42.5°	14858.2	14801.2	14864.5	15035.4	15446.7	15389.7	15124.0	14883.5	14738.0	14662.0	14738.0
45°	15345.4	15332.8	15446.7	15573.3	15864.3	15674.5	15465.7	15503.6	15364.4	15237.9	15231.5
47.5°	15877.0	15794.7	15934.0	16123.8	15902.3	15813.7	15801.1	15883.3	15839.0	15617.6	15547.9
50°	16136.4	16104.8	16326.3	16547.8	16427.5	16225.0	16269.3	16402.2	15832.7	15535.3	15364.4
52.5°	16832.5	16838.9	17262.8	17383.1	17332.4	17035.0	17129.9	16769.2	16098.5	15680.8	15699.8
55°	17927.3	17883.0	18357.6	18712.0	18768.9	18389.2	17933.6	17427.4	16585.7	16161.8	16035.2
57°	17326.1	17427.4	17952.6	19003.0	19534.6	19085.3	18091.8	17167.9	16047.9	15535.3	15307.5
57.5°	16522.5	16687.0	17598.2	18655.0	19211.9	19173.9	17895.6	16687.0	15687.2	14889.8	14908.8
60°	12105.5	12137.1	12959.8	14636.7	16376.9	16414.9	14858.2	13257.2	12143.5	11276.5	11396.8
62.5°	6385.0	6530.5	6859.6	8207.4	9713.5	10080.5	9137.7	8315.0	7353.2	6695.0	6758.3
65°	3379.2	3360.2	3518.4	3898.1	4638.4	4828.3	4701.7	4049.9	3714.5	3607.0	3613.3
67.5°	2746.4	2778.0	2759.0	2778.0	2828.6	2910.9	2891.9	2917.2	2936.2	2967.8	2961.5
70°	2328.7	2328.7	2341.4	2347.7	2347.7	2385.7	2430.0	2512.2	2518.6	2550.2	2562.8
72.5°	1835.1	1822.5	1841.5	1885.7	1892.1	1923.7	1987.0	2037.6	2056.6	2056.6	2018.6
75°	1246.6	1259.3	1284.6	1322.6	1360.5	1417.5	1468.1	1499.7	1512.4	1493.4	1474.4
77.5°	702.4	715.1	734.1	791.0	835.3	885.9	942.9	974.5	1006.2	1012.5	974.5
80°	417.6	417.6	449.3	493.6	544.2	594.8	645.5	683.4	696.1	696.1	677.1
82.5°	253.1	259.4	284.8	329.1	373.4	405.0	449.3	480.9	506.2	499.9	487.3
85°	132.9	132.9	158.2	196.2	227.8	259.4	259.4	240.5	227.8	196.2	183.5
87.5°	44.3	38.0	50.6	50.6	44.3	50.6	50.6	57.0	57.0	57.0	57.0
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)