

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: P647645

Luminaire Tested: **GALN-SA9D-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647645  
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-SA9D-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA 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: 46586.1 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

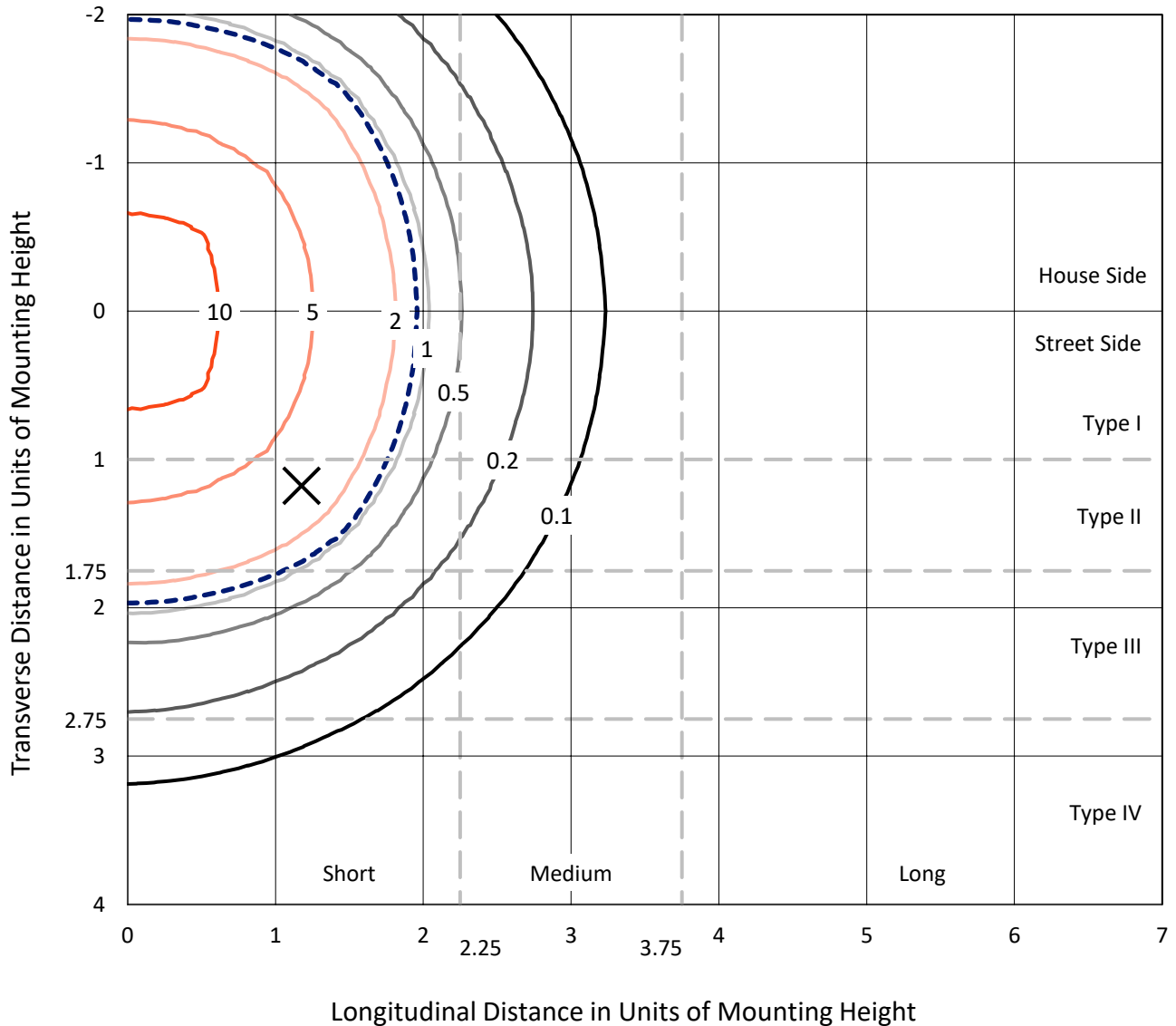
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

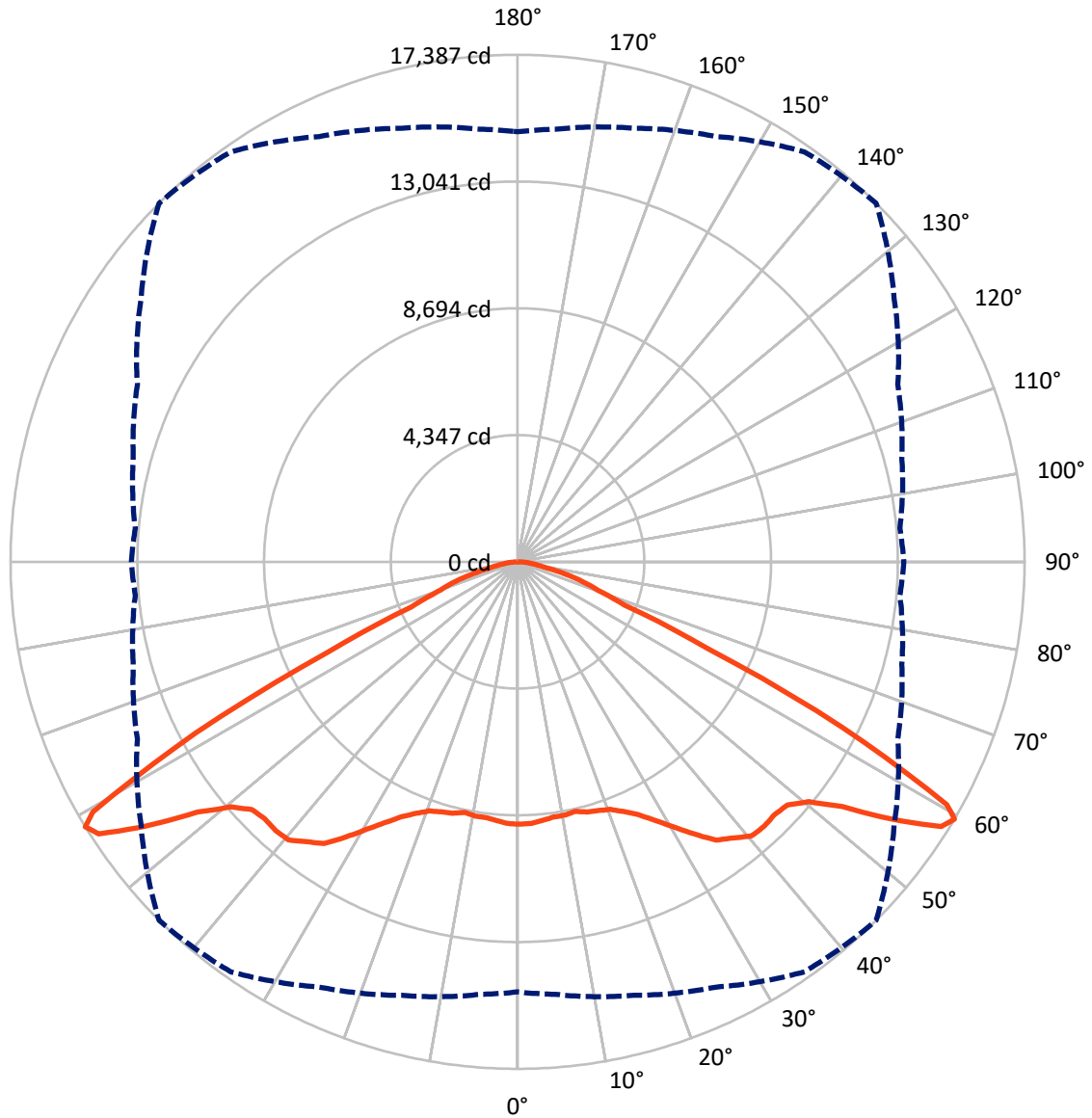
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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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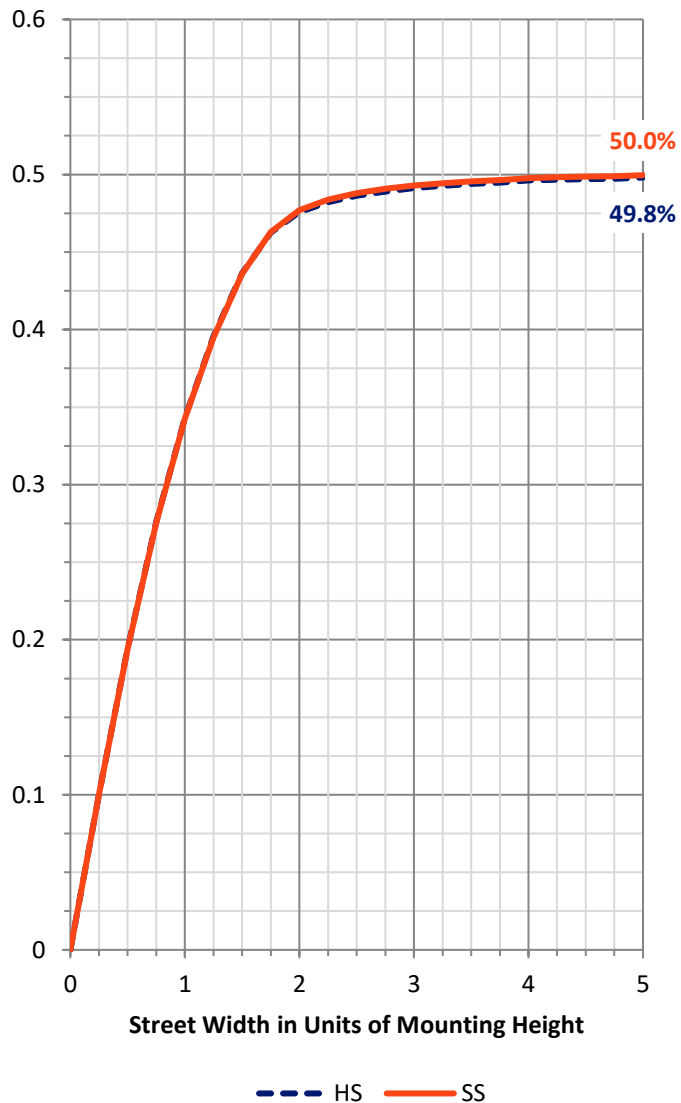
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23293.1	0.0	23293.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23293.1	0.0	23293.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46586.1	0.0	46586.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	848.2	1.8
10°-20°	2522.5	5.4
20°-30°	4404.6	9.5
30°-40°	7034.8	15.1
40°-50°	9582.8	20.6
50°-60°	12958.5	27.8
60°-70°	7106.5	15.3
70°-80°	1818.1	3.9
80°-90°	310.1	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°	46586.1	100.0
0°-180°	46586.1	100.0

**Coefficient of Utilization**



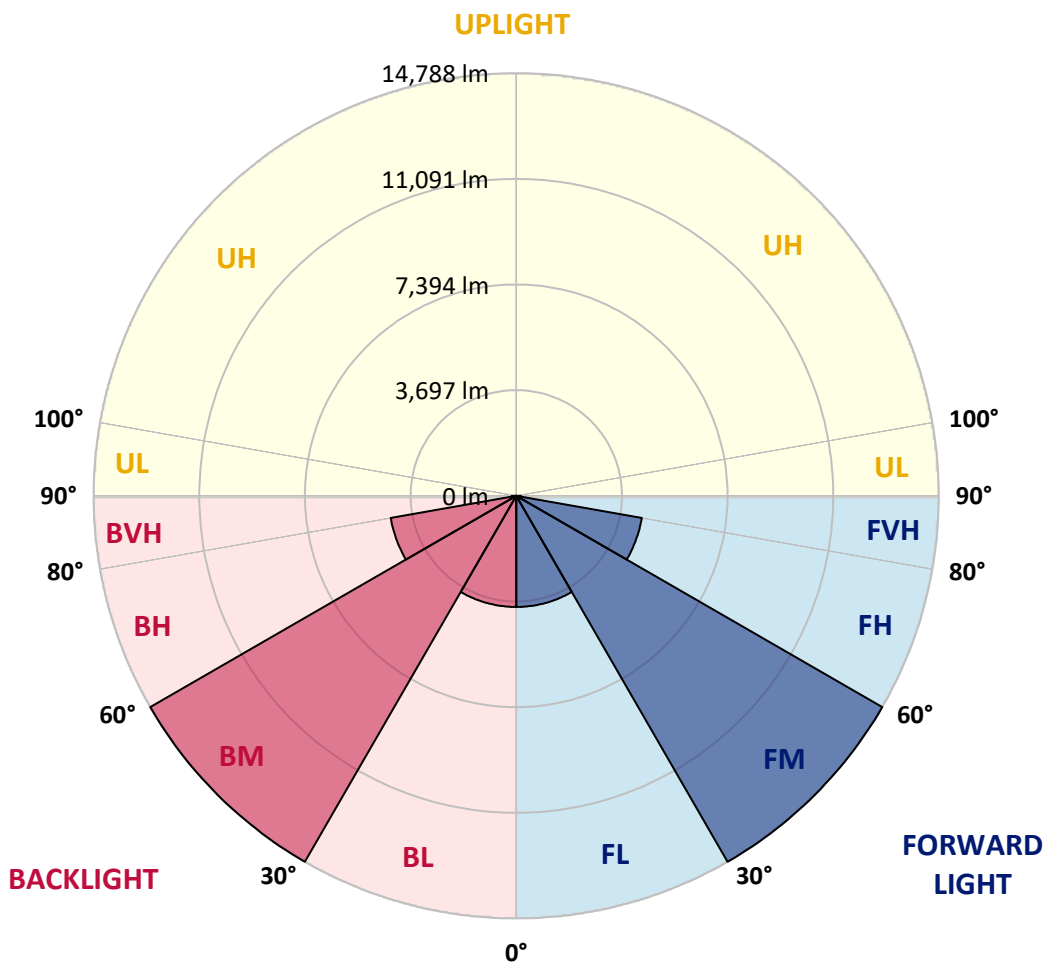
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3887.7	8.3			
FM (30°-60°)	14788.1	31.7			
FH (60°-80°)	4462.3	9.6			G2/5000
FVH (80°-90°)	155.0	0.3			G2/225
BL (0°-30°)	3887.7	8.3	B4/5000		
BM (30°-60°)	14788.1	31.7	B5		
BH (60°-80°)	4462.3	9.6	B4/5000		G2/5000
BVH (80°-90°)	155.0	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°	8998.2	8998.2	8998.2	8998.2	8998.2	8998.2	8998.2	8998.2	8998.2	8998.2	8998.2
2.5°	8944.4	9010.1	8962.4	9004.2	8998.2	8980.3	8950.5	8932.5	8908.7	8944.4	8884.8
5°	8908.7	8962.4	9016.2	8944.4	8944.4	8908.7	8890.7	8854.9	8854.9	8848.9	8843.0
7.5°	8968.3	8914.6	8890.7	8902.7	8914.6	8837.0	8890.7	8819.1	8759.3	8801.2	8848.9
10°	8914.6	8938.5	8848.9	8890.7	8825.0	8837.0	8801.2	8848.9	8783.2	8783.2	8783.2
12.5°	8968.3	8902.7	8932.5	8902.7	8884.8	8783.2	8831.1	8777.3	8771.3	8831.1	8777.3
15°	9075.8	8968.3	8944.4	8884.8	8902.7	8902.7	8854.9	8860.9	8795.2	8831.1	8843.0
17.5°	9040.0	8980.3	8962.4	8890.7	8950.5	8968.3	8878.8	8819.1	8860.9	8854.9	8848.9
20°	9069.9	9093.8	9075.8	9087.8	9111.7	9063.9	8980.3	8896.7	8843.0	8920.6	8914.6
22.5°	9260.9	9237.1	9225.1	9213.2	9255.0	9302.7	9189.3	9057.9	9057.9	9111.7	9135.6
25°	9416.2	9410.3	9404.2	9458.0	9601.3	9601.3	9458.0	9290.8	9249.0	9284.8	9255.0
27.5°	9643.1	9708.7	9684.8	9780.4	9989.4	10037.2	9846.1	9649.1	9535.6	9493.8	9547.5
30°	10162.6	10085.0	10102.8	10204.4	10389.5	10544.7	10252.1	10043.1	9887.9	9881.9	9905.8
32.5°	10508.9	10568.5	10622.3	10717.9	11010.4	11129.9	10777.5	10437.2	10341.7	10287.9	10305.8
35°	11201.5	11147.7	11135.8	11231.4	11524.0	11721.0	11279.1	10980.6	10855.2	10974.6	10974.6
37.5°	11858.3	11709.1	11595.6	11721.0	11989.7	12013.6	11637.3	11476.2	11410.5	11547.8	11541.8
40°	12168.8	12156.9	11894.2	11965.8	12324.0	12359.9	12007.5	11816.5	11804.6	11983.7	12162.8
42.5°	12491.2	12377.7	12115.0	12162.8	12383.8	12395.7	12061.3	12007.5	12138.9	12312.1	12324.0
45°	12545.0	12449.4	12282.2	12162.8	12324.0	12359.9	12162.8	12198.7	12210.6	12419.6	12419.6
47.5°	12652.4	12640.5	12545.0	12455.4	12485.2	12455.4	12330.0	12383.8	12562.8	12664.4	12616.6
50°	12951.0	12825.6	12921.1	12843.5	12849.5	12933.0	12819.6	12873.4	12837.5	12747.9	12688.3
52.5°	13607.8	13548.1	13631.6	13685.4	13745.1	13936.2	13804.8	13518.3	13249.5	13010.7	13004.7
55°	14569.1	14610.9	14772.2	15046.8	15279.6	15584.2	14951.2	14264.6	13834.7	13458.5	13482.4
57.5°	15476.7	15446.9	15667.8	16294.7	16975.4	17130.6	15888.7	14909.4	14210.8	13972.0	13870.5
59°	14748.3	14891.6	15393.1	16091.7	17160.5	17387.4	15763.3	14384.0	13643.6	13160.0	13243.6
60°	13601.8	13655.5	14103.4	15076.7	16521.6	16909.7	14921.4	13572.0	12586.7	12306.1	12431.5
62.5°	9613.2	9571.4	9893.8	10688.0	11983.7	12509.1	11094.0	10144.6	9523.6	9213.2	9284.8
65°	5111.1	5302.2	5433.6	5929.1	6615.8	7171.1	6586.0	6174.0	5827.6	5570.9	5564.9
67.5°	3451.2	3427.3	3457.2	3570.6	3803.5	3958.8	3946.8	3737.8	3708.0	3660.2	3713.9
70°	2907.8	2895.9	2842.1	2842.1	2890.0	2925.8	2967.6	2991.5	3039.2	3099.0	3092.9
72.5°	2358.6	2328.6	2292.9	2274.9	2334.7	2352.5	2406.3	2430.2	2472.0	2466.0	2519.8
75°	1558.4	1558.4	1600.2	1648.0	1665.9	1701.7	1707.7	1779.4	1779.4	1791.3	1743.5
77.5°	871.8	847.9	877.7	925.5	967.3	1033.0	1098.6	1152.4	1182.3	1170.3	1170.3
80°	507.5	507.5	537.4	591.1	644.9	704.5	752.3	794.1	824.0	812.0	788.2
82.5°	316.5	316.5	346.3	400.0	441.8	477.7	543.3	597.1	632.9	621.0	591.1
85°	161.2	161.2	197.0	232.9	286.6	310.5	304.5	280.6	274.7	244.8	244.8
87.5°	41.8	41.8	59.7	65.7	53.7	59.7	59.7	59.7	59.7	59.7	65.7
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)