

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: P534388

Luminaire Tested: **GALN-SA9D-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534388  
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-827-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 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: 43737 lumens  
Efficiency: N/A  
Efficacy: 79.2 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

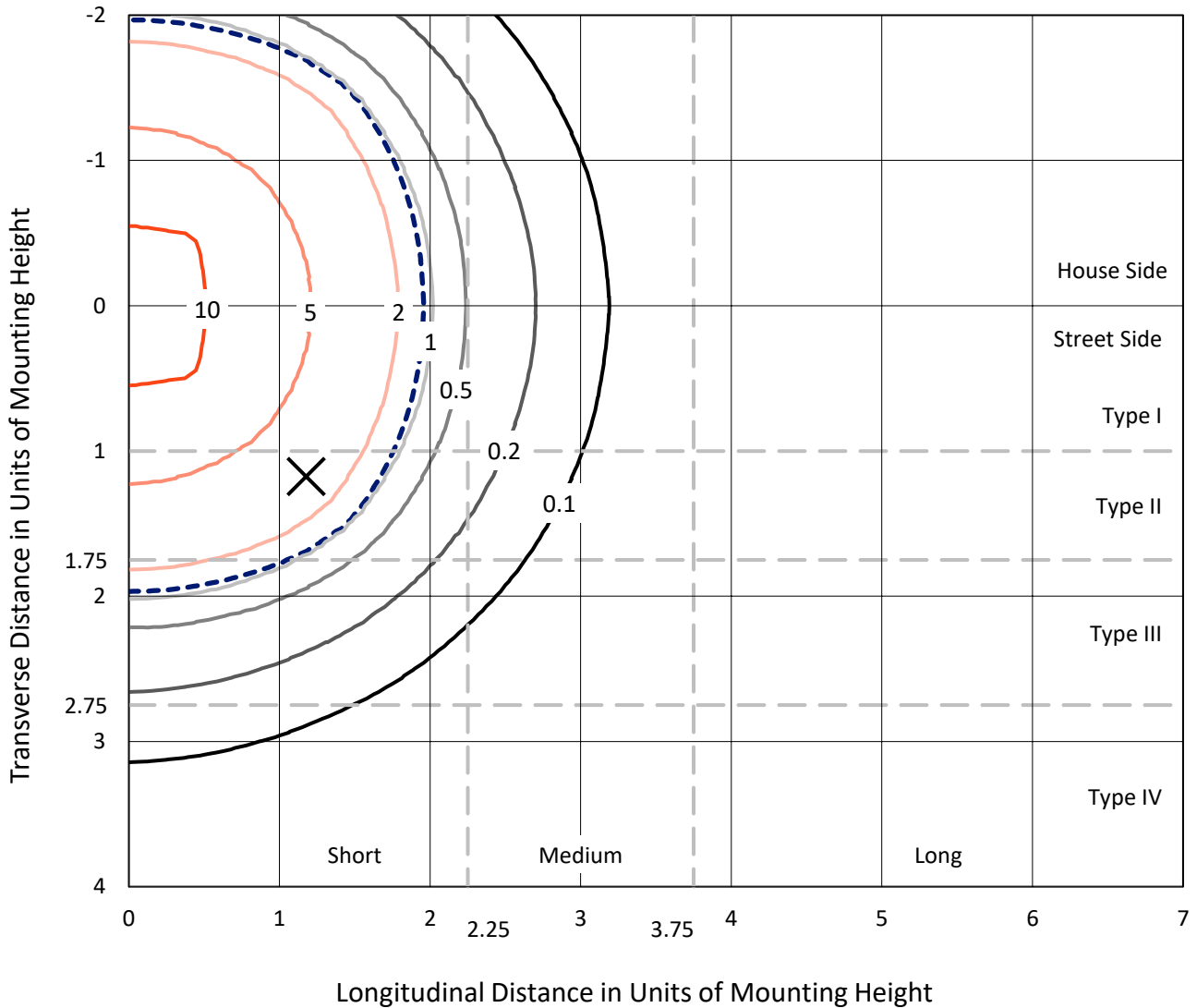
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

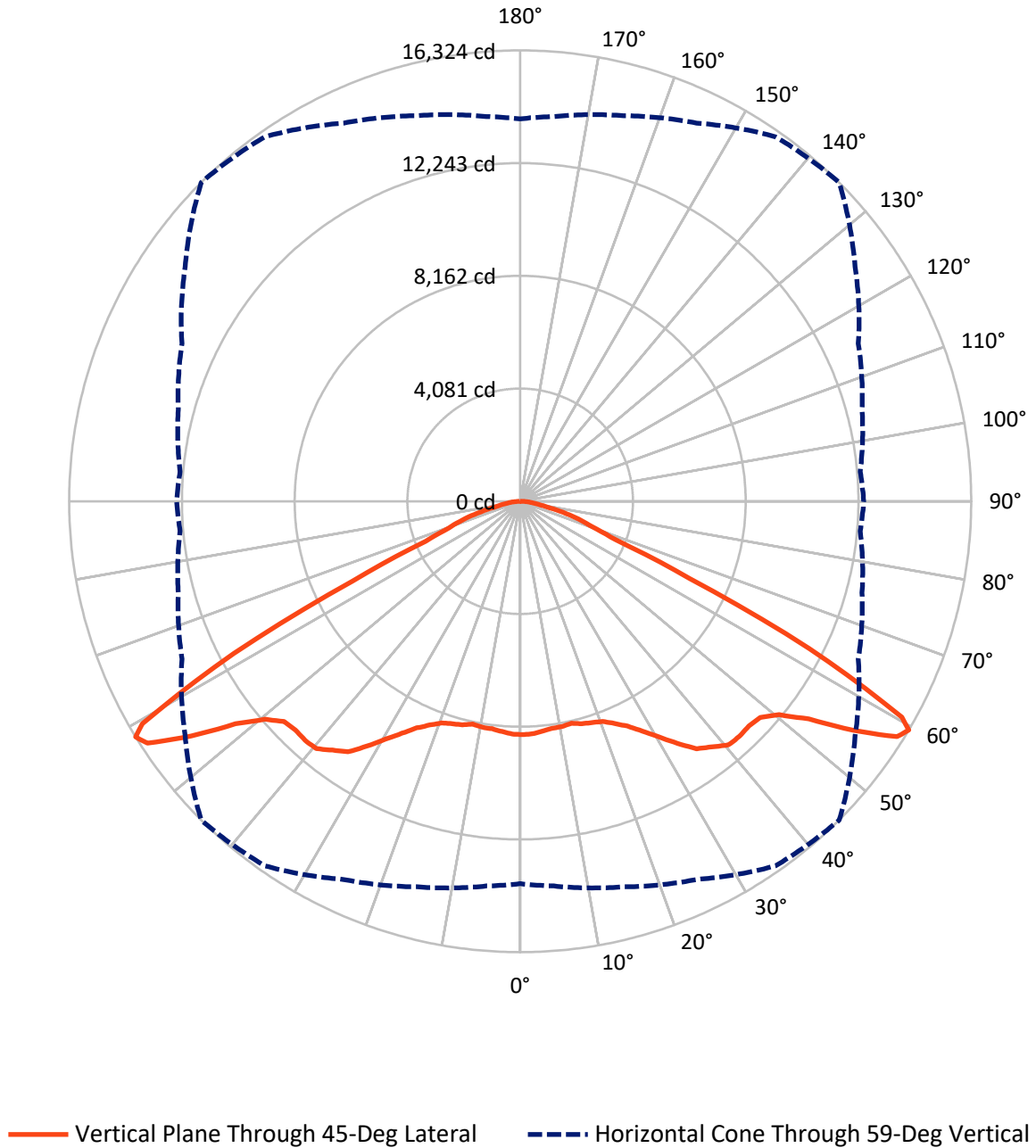
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21868.5	0.0	21868.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21868.5	0.0	21868.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43737.0	0.0	43737.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	796.4	1.8
10°-20°	2368.3	5.4
20°-30°	4135.2	9.5
30°-40°	6604.6	15.1
40°-50°	8996.7	20.6
50°-60°	12166.0	27.8
60°-70°	6671.9	15.3
70°-80°	1706.9	3.9
80°-90°	291.1	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°	43737.0	100.0
0°-180°	43737.0	100.0

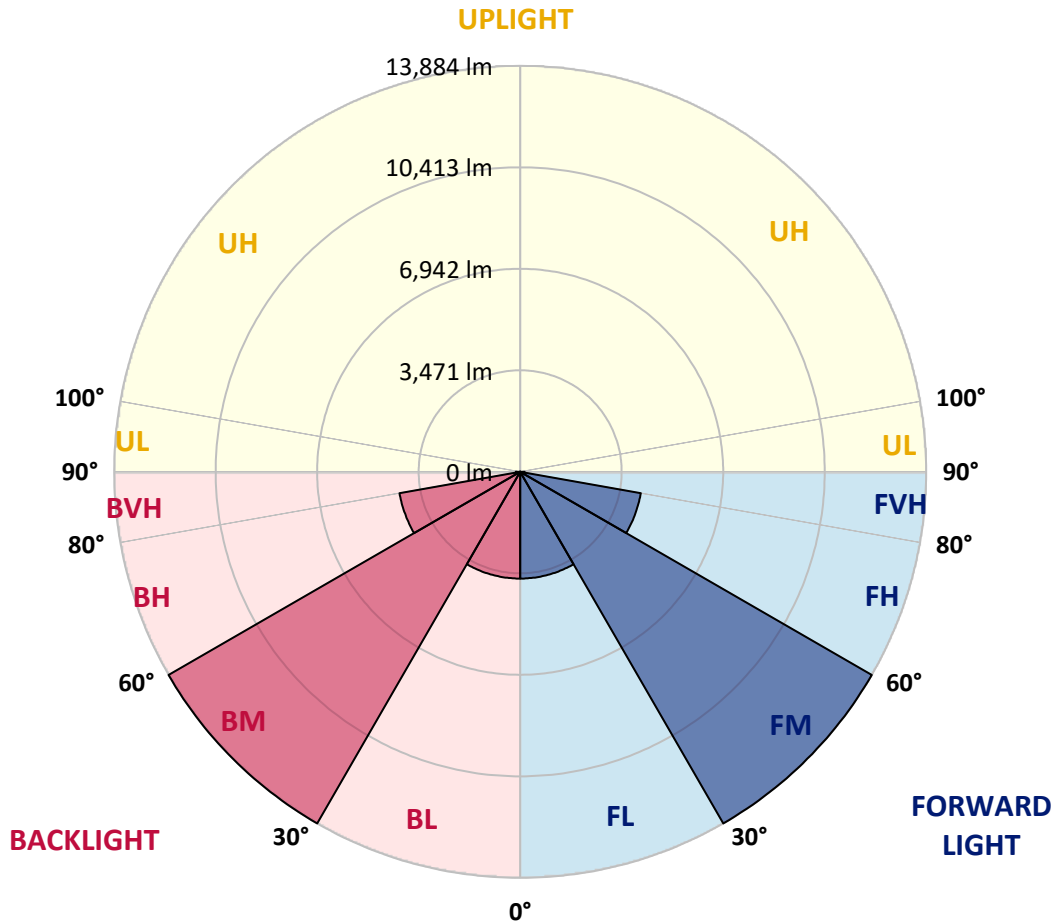


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3649.9	8.3			
FM (30°-60°)	13883.7	31.7			
FH (60°-80°)	4189.4	9.6			G2/5000
FVH (80°-90°)	145.6	0.3			G2/225
BL (0°-30°)	3649.9	8.3	B4/5000		
BM (30°-60°)	13883.7	31.7	B5		
BH (60°-80°)	4189.4	9.6	B4/5000		G2/5000
BVH (80°-90°)	145.6	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°	8447.9	8447.9	8447.9	8447.9	8447.9	8447.9	8447.9	8447.9	8447.9	8447.9	8447.9
2.5°	8397.4	8459.1	8414.3	8453.5	8447.9	8431.1	8403.1	8386.2	8363.8	8397.4	8341.4
5°	8363.8	8414.3	8464.7	8397.4	8397.4	8363.8	8347.0	8313.4	8313.4	8307.8	8302.1
7.5°	8419.9	8369.4	8347.0	8358.2	8369.4	8296.5	8347.0	8279.7	8223.7	8262.9	8307.8
10°	8369.4	8391.8	8307.8	8347.0	8285.3	8296.5	8262.9	8307.8	8246.1	8246.1	8246.1
12.5°	8419.9	8358.2	8386.2	8358.2	8341.4	8246.1	8290.9	8240.5	8234.9	8290.9	8240.5
15°	8520.8	8419.9	8397.4	8341.4	8358.2	8358.2	8313.4	8319.0	8257.3	8290.9	8302.1
17.5°	8487.1	8431.1	8414.3	8347.0	8403.1	8419.9	8335.8	8279.7	8319.0	8313.4	8307.8
20°	8515.2	8537.6	8520.8	8532.0	8554.4	8509.6	8431.1	8352.6	8302.1	8375.0	8369.4
22.5°	8694.6	8672.1	8660.9	8649.7	8688.9	8733.8	8627.3	8504.0	8504.0	8554.4	8576.8
25°	8840.3	8834.7	8829.1	8879.5	9014.1	9014.1	8879.5	8722.6	8683.3	8717.0	8688.9
27.5°	9053.3	9115.0	9092.6	9182.3	9378.5	9423.3	9243.9	9058.9	8952.4	8913.2	8963.6
30°	9541.0	9468.1	9485.0	9580.3	9754.0	9899.8	9625.1	9428.9	9283.2	9277.6	9300.0
32.5°	9866.2	9922.2	9972.7	10062.4	10337.0	10449.2	10118.4	9798.9	9709.2	9658.7	9675.6
35°	10516.4	10466.0	10454.8	10544.5	10819.1	11004.1	10589.3	10309.0	10191.3	10303.4	10303.4
37.5°	11133.1	10992.9	10886.4	11004.1	11256.4	11278.8	10925.6	10774.3	10712.6	10841.6	10836.0
40°	11424.6	11413.3	11166.7	11234.0	11570.3	11603.9	11273.2	11093.8	11082.6	11250.8	11419.0
42.5°	11727.3	11620.8	11374.1	11419.0	11626.4	11637.6	11323.7	11273.2	11396.5	11559.1	11570.3
45°	11777.7	11688.0	11531.1	11419.0	11570.3	11603.9	11419.0	11452.6	11463.8	11660.0	11660.0
47.5°	11878.6	11867.4	11777.7	11693.6	11721.7	11693.6	11575.9	11626.4	11794.5	11889.8	11845.0
50°	12158.9	12041.2	12130.9	12058.0	12063.6	12142.1	12035.6	12086.0	12052.4	11968.3	11912.3
52.5°	12775.6	12719.5	12798.0	12848.4	12904.5	13083.9	12960.5	12691.5	12439.2	12215.0	12209.4
55°	13678.1	13717.3	13868.7	14126.5	14345.2	14631.1	14036.9	13392.2	12988.6	12635.4	12657.8
57.5°	14530.2	14502.1	14709.5	15298.1	15937.2	16083.0	14917.0	13997.6	13341.7	13117.5	13022.2
59°	13846.3	13980.8	14451.7	15107.6	16111.0	16324.0	14799.2	13504.3	12809.2	12355.1	12433.6
60°	12769.9	12820.4	13240.8	14154.6	15511.2	15875.5	14008.8	12741.9	11817.0	11553.5	11671.2
62.5°	9025.3	8986.1	9288.8	10034.3	11250.8	11744.1	10415.5	9524.2	8941.2	8649.7	8717.0
65°	4798.5	4977.9	5101.3	5566.5	6211.2	6732.5	6183.2	5796.4	5471.2	5230.2	5224.6
67.5°	3240.1	3217.7	3245.7	3352.3	3570.9	3716.6	3705.4	3509.2	3481.2	3436.3	3486.8
70°	2730.0	2718.8	2668.3	2668.3	2713.2	2746.8	2786.1	2808.5	2853.3	2909.4	2903.8
72.5°	2214.3	2186.3	2152.6	2135.8	2191.9	2208.7	2259.1	2281.5	2320.8	2315.2	2365.6
75°	1463.1	1463.1	1502.3	1547.2	1564.0	1597.6	1603.3	1670.5	1670.5	1681.7	1636.9
77.5°	818.4	796.0	824.0	868.9	908.1	969.8	1031.5	1081.9	1109.9	1098.7	1098.7
80°	476.5	476.5	504.5	555.0	605.4	661.5	706.3	745.6	773.6	762.4	740.0
82.5°	297.1	297.1	325.1	375.6	414.8	448.5	510.1	560.6	594.2	583.0	555.0
85°	151.4	151.4	185.0	218.6	269.1	291.5	285.9	263.5	257.9	229.8	229.8
87.5°	39.2	39.2	56.1	61.7	50.5	56.1	56.1	56.1	56.1	56.1	61.7
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)