

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: P533218

Luminaire Tested: **GALN-SA8C-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533218  
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-827-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

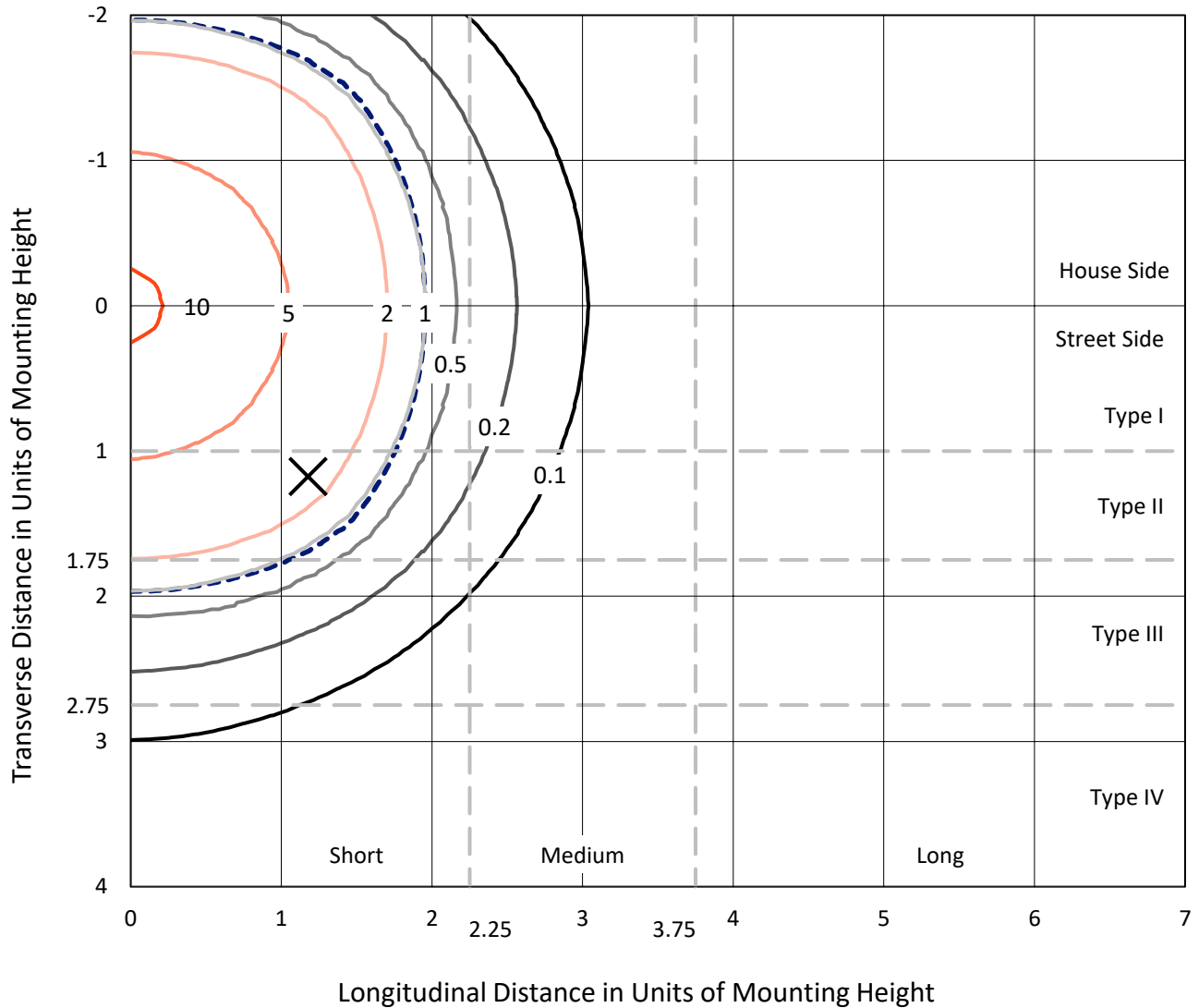
Lumens per Lamp: N/A  
Luminaire Lumens: 35405 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

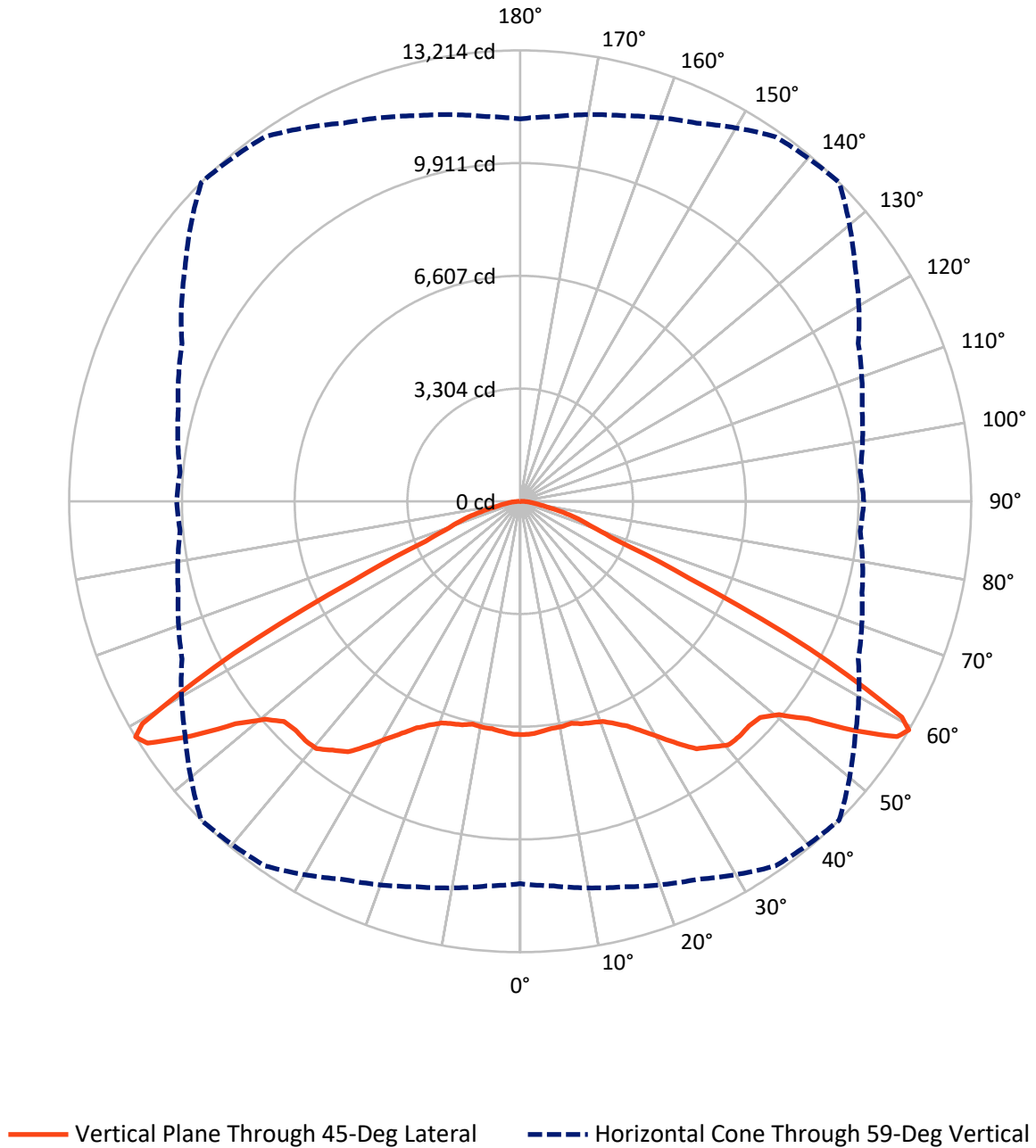
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	17702.5	0.0	17702.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17702.5	0.0	17702.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35405.0	0.0	35405.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.7	1.8
10°-20°	1917.1	5.4
20°-30°	3347.5	9.5
30°-40°	5346.4	15.1
40°-50°	7282.8	20.6
50°-60°	9848.3	27.8
60°-70°	5400.9	15.3
70°-80°	1381.7	3.9
80°-90°	235.6	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°	35405.0	100.0
0°-180°	35405.0	100.0

**Coefficient of Utilization**



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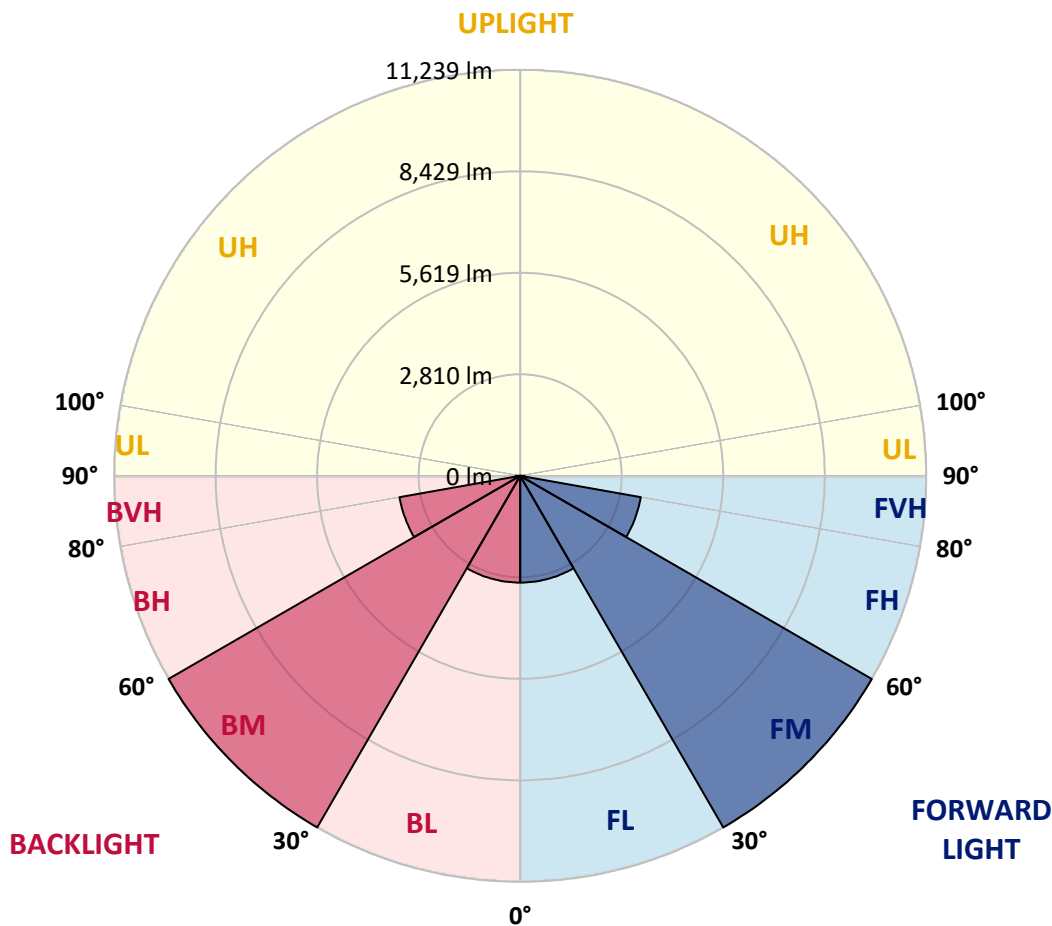
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2954.6	8.3			
FM (30°-60°)	11238.8	31.7			
FH (60°-80°)	3391.3	9.6			G2/5000
FVH (80°-90°)	117.8	0.3			G2/225
BL (0°-30°)	2954.6	8.3	B4/5000		
BM (30°-60°)	11238.8	31.7	B5		
BH (60°-80°)	3391.3	9.6	B4/5000		G2/5000
BVH (80°-90°)	117.8	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°	6838.6	6838.6	6838.6	6838.6	6838.6	6838.6	6838.6	6838.6	6838.6	6838.6	6838.6
2.5°	6797.7	6847.6	6811.3	6843.1	6838.6	6824.9	6802.2	6788.6	6770.5	6797.7	6752.3
5°	6770.5	6811.3	6852.2	6797.7	6797.7	6770.5	6756.9	6729.6	6729.6	6725.1	6720.6
7.5°	6815.9	6775.0	6756.9	6765.9	6775.0	6716.0	6756.9	6702.4	6657.0	6688.8	6725.1
10°	6775.0	6793.2	6725.1	6756.9	6707.0	6716.0	6688.8	6725.1	6675.2	6675.2	6675.2
12.5°	6815.9	6765.9	6788.6	6765.9	6752.3	6675.2	6711.5	6670.7	6666.1	6711.5	6670.7
15°	6897.5	6815.9	6797.7	6752.3	6765.9	6765.9	6729.6	6734.2	6684.3	6711.5	6720.6
17.5°	6870.3	6824.9	6811.3	6756.9	6802.2	6815.9	6747.8	6702.4	6734.2	6729.6	6725.1
20°	6893.0	6911.2	6897.5	6906.6	6924.8	6888.5	6824.9	6761.4	6720.6	6779.6	6775.0
22.5°	7038.2	7020.1	7011.0	7001.9	7033.7	7070.0	6983.8	6883.9	6883.9	6924.8	6942.9
25°	7156.2	7151.7	7147.1	7188.0	7296.9	7296.9	7188.0	7060.9	7029.1	7056.4	7033.7
27.5°	7328.6	7378.6	7360.4	7433.0	7591.8	7628.1	7482.9	7333.2	7247.0	7215.2	7256.0
30°	7723.4	7664.4	7678.1	7755.2	7895.9	8013.9	7791.5	7632.7	7514.7	7510.2	7528.3
32.5°	7986.6	8032.0	8072.9	8145.5	8367.8	8458.6	8190.8	7932.2	7859.6	7818.7	7832.3
35°	8513.0	8472.2	8463.1	8535.7	8758.1	8907.8	8572.0	8345.1	8249.8	8340.6	8340.6
37.5°	9012.2	8898.7	8812.5	8907.8	9112.0	9130.2	8844.3	8721.8	8671.8	8776.2	8771.7
40°	9248.2	9239.1	9039.4	9093.9	9366.1	9393.4	9125.6	8980.4	8971.3	9107.5	9243.6
42.5°	9493.2	9407.0	9207.3	9243.6	9411.5	9420.6	9166.5	9125.6	9225.5	9357.1	9366.1
45°	9534.0	9461.4	9334.4	9243.6	9366.1	9393.4	9243.6	9270.8	9279.9	9438.7	9438.7
47.5°	9615.7	9606.6	9534.0	9466.0	9488.7	9466.0	9370.7	9411.5	9547.7	9624.8	9588.5
50°	9842.6	9747.3	9819.9	9760.9	9765.5	9829.0	9742.8	9783.6	9756.4	9688.3	9642.9
52.5°	10341.8	10296.4	10359.9	10400.8	10446.2	10591.4	10491.5	10273.7	10069.5	9888.0	9883.5
55°	11072.4	11104.1	11226.7	11435.4	11612.4	11843.8	11362.8	10840.9	10514.2	10228.3	10246.5
57.5°	11762.1	11739.4	11907.3	12383.8	12901.1	13019.1	12075.2	11331.0	10800.1	10618.6	10541.4
59°	11208.5	11317.4	11698.6	12229.5	13041.8	13214.2	11979.9	10931.7	10369.0	10001.4	10065.0
60°	10337.2	10378.1	10718.4	11458.1	12556.3	12851.2	11340.1	10314.6	9565.8	9352.5	9447.8
62.5°	7306.0	7274.2	7519.2	8122.8	9107.5	9506.8	8431.3	7709.8	7237.9	7001.9	7056.4
65°	3884.4	4029.6	4129.5	4506.1	5027.9	5450.0	5005.3	4692.1	4428.9	4233.8	4229.3
67.5°	2622.9	2604.7	2627.4	2713.6	2890.6	3008.6	2999.5	2840.7	2818.0	2781.7	2822.5
70°	2209.9	2200.9	2160.0	2160.0	2196.3	2223.6	2255.3	2273.5	2309.8	2355.1	2350.6
72.5°	1792.5	1769.8	1742.5	1728.9	1774.3	1787.9	1828.8	1846.9	1878.7	1874.1	1915.0
75°	1184.4	1184.4	1216.1	1252.4	1266.1	1293.3	1297.8	1352.3	1352.3	1361.4	1325.1
77.5°	662.5	644.4	667.1	703.4	735.1	785.0	835.0	875.8	898.5	889.4	889.4
80°	385.7	385.7	408.4	449.2	490.1	535.5	571.8	603.5	626.2	617.1	599.0
82.5°	240.5	240.5	263.2	304.0	335.8	363.0	412.9	453.8	481.0	471.9	449.2
85°	122.5	122.5	149.7	177.0	217.8	236.0	231.4	213.3	208.7	186.1	186.1
87.5°	31.8	31.8	45.4	49.9	40.8	45.4	45.4	45.4	45.4	45.4	49.9
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)