

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: P533222

Luminaire Tested: **GALN-SA8C-827-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
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-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

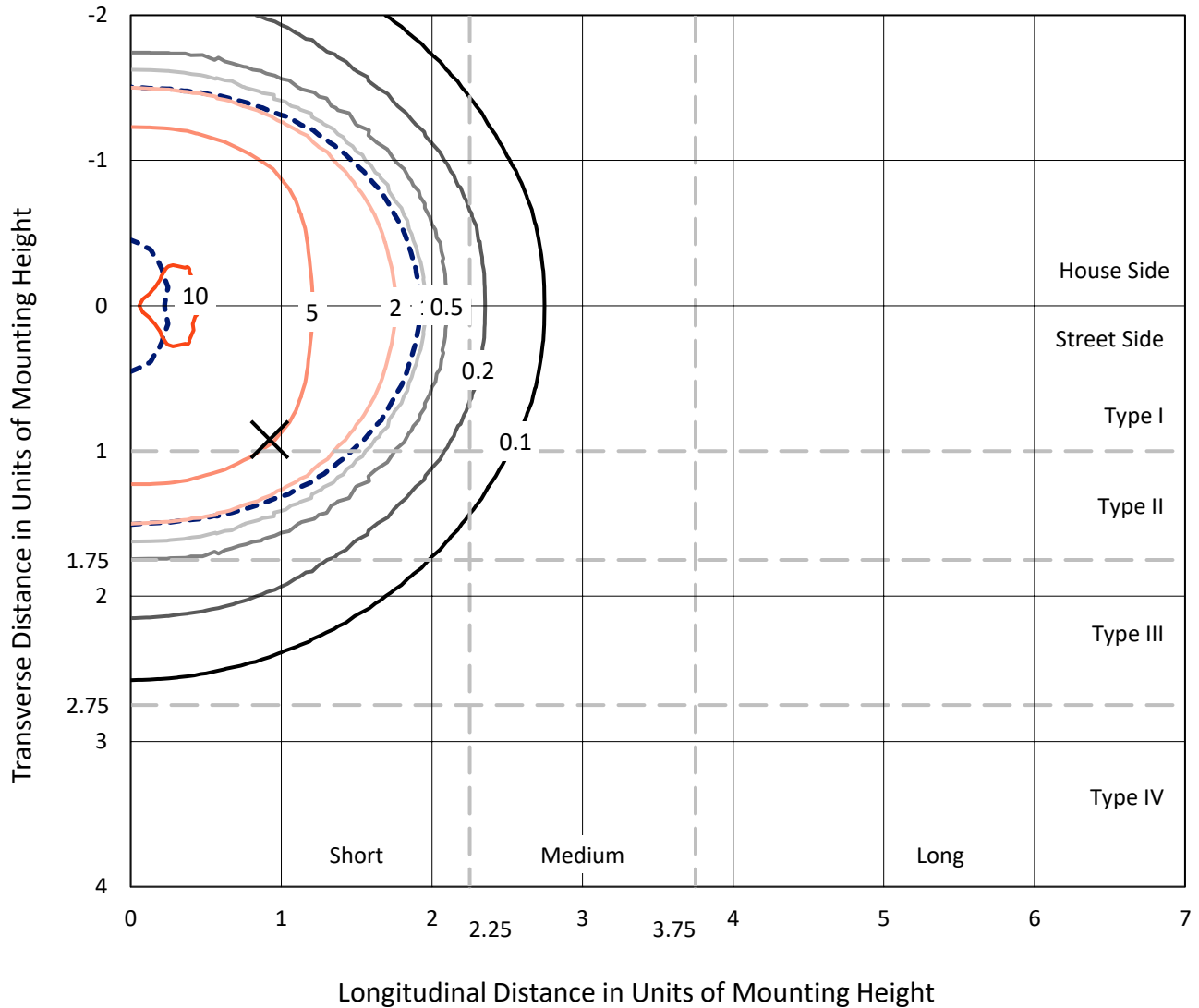
Lumens per Lamp: N/A  
Luminaire Lumens: 36568 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P533222  
 CATALOG NUMBER: GALN-SA8C-827-U-RW-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

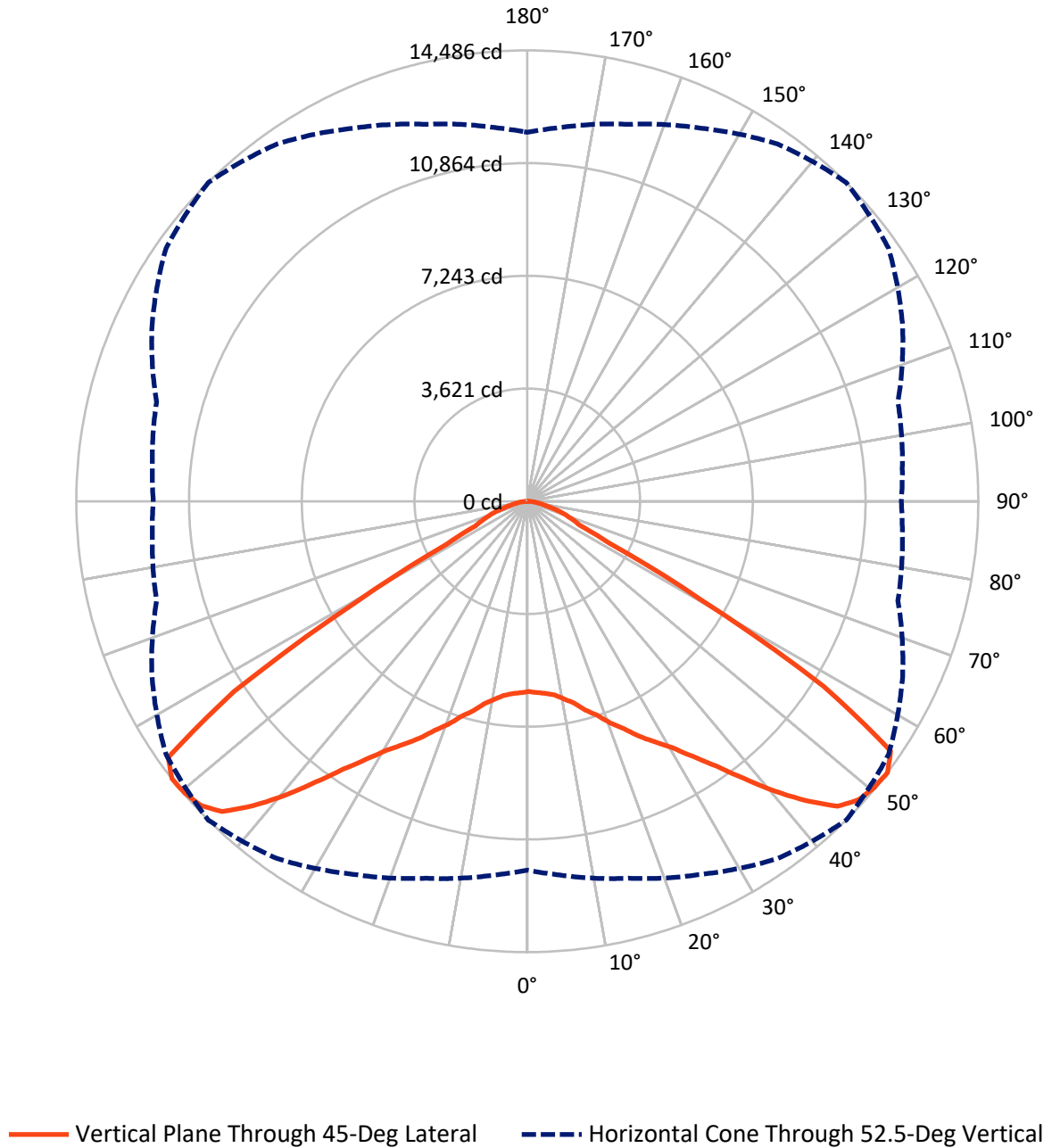
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P533222  
CATALOG NUMBER: GALN-SA8C-827-U-RW-GRSWH

### Luminous Intensity Polar Plot



REPORT NUMBER: P533222  
 CATALOG NUMBER: GALN-SA8C-827-U-RW-GRSWH

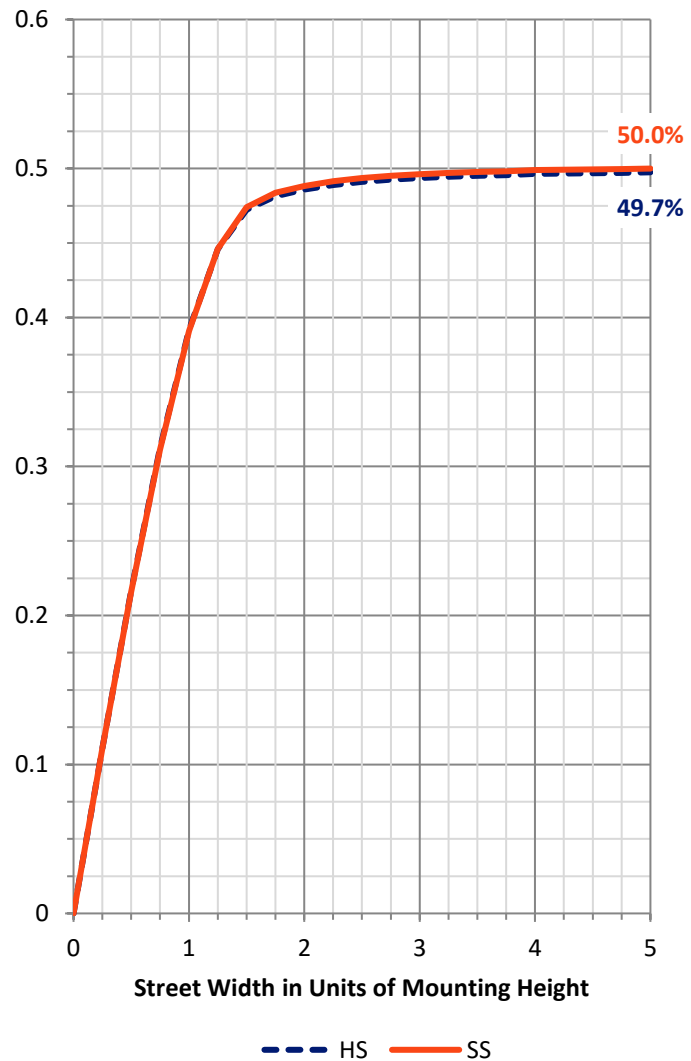
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18284.0	0.0	18284.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18284.0	0.0	18284.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36568.0	0.0	36568.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.6	1.6
10°-20°	1973.4	5.4
20°-30°	3757.1	10.3
30°-40°	6451.2	17.6
40°-50°	9915.7	27.1
50°-60°	10069.3	27.5
60°-70°	2806.2	7.7
70°-80°	827.8	2.3
80°-90°	166.7	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°	36568.0	100.0
0°-180°	36568.0	100.0



REPORT NUMBER: P533222

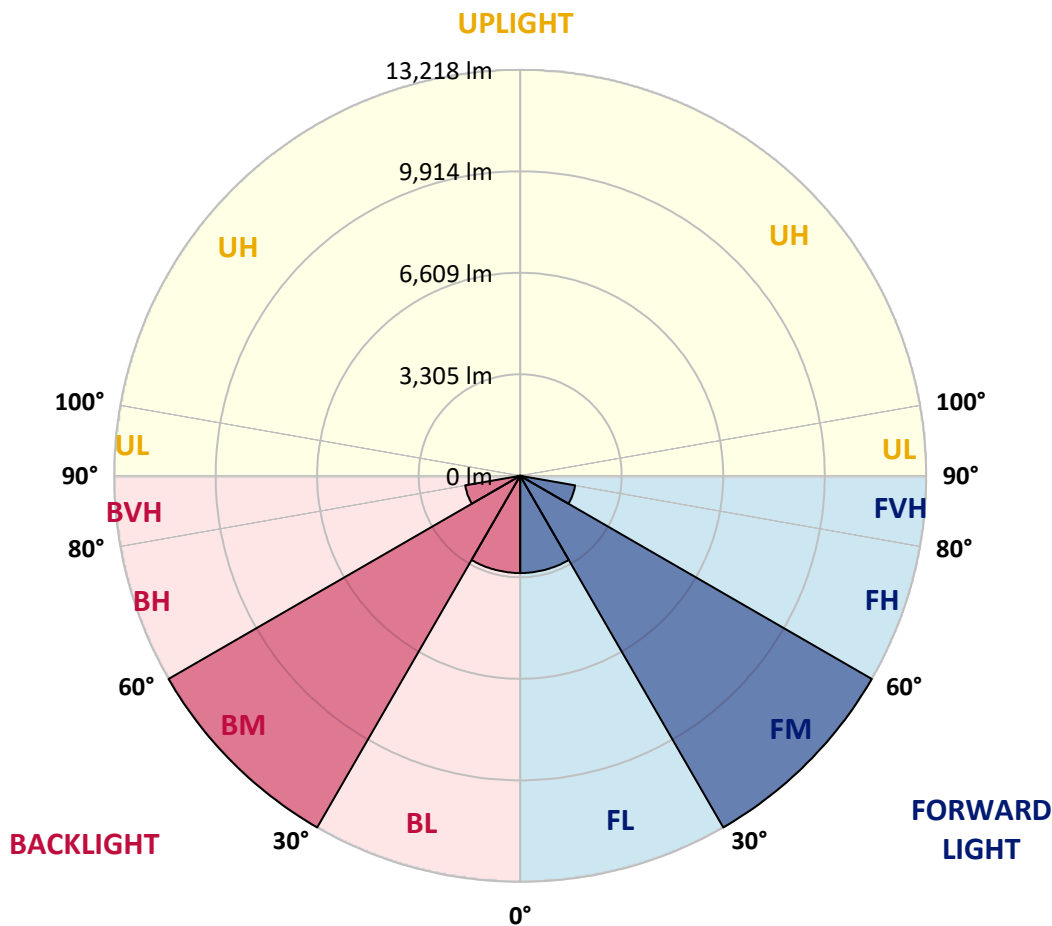
CATALOG NUMBER: GALN-SA8C-827-U-RW-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3165.6	8.7			
FM (30°-60°)	13218.1	36.1			
FH (60°-80°)	1817.0	5.0			G2/5000
FVH (80°-90°)	83.4	0.2			G1/100
BL (0°-30°)	3165.6	8.7	B4/5000		
BM (30°-60°)	13218.1	36.1	B5		
BH (60°-80°)	1817.0	5.0	B3/2500		G2/5000
BVH (80°-90°)	83.4	0.2			G1/100
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





REPORT NUMBER: P533222

CATALOG NUMBER: GALN-SA8C-827-U-RW-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6112.8	6112.8	6112.8	6112.8	6112.8	6112.8	6112.8	6112.8	6112.8	6112.8	6112.8
2.5°	6126.4	6062.9	6085.6	6099.2	6158.2	6153.7	6140.1	6158.2	6176.4	6180.9	6171.8
5°	6121.9	6076.5	6094.7	6108.3	6167.3	6199.0	6190.0	6267.1	6321.6	6308.0	6376.0
7.5°	6085.6	6112.8	6090.1	6158.2	6208.1	6285.3	6367.0	6439.6	6507.6	6584.8	6598.4
10°	6167.3	6167.3	6208.1	6262.6	6394.2	6453.2	6571.2	6675.5	6807.2	6897.9	6861.6
12.5°	6253.5	6267.1	6267.1	6407.8	6516.7	6648.3	6757.2	6897.9	7084.0	7192.9	7247.3
15°	6339.7	6348.8	6394.2	6584.8	6748.2	6956.9	7056.7	7183.8	7288.2	7492.4	7496.9
17.5°	6416.9	6466.8	6602.9	6816.2	7020.4	7220.1	7379.0	7510.6	7601.3	7683.0	7664.9
20°	6707.3	6743.6	6884.3	7097.6	7401.6	7596.8	7651.2	7673.9	7732.9	7896.3	7846.4
22.5°	6988.7	7002.3	7133.9	7460.6	7673.9	7932.6	7991.6	7978.0	8000.7	8041.5	8114.1
25°	7279.1	7301.8	7483.3	7760.2	8059.7	8368.3	8418.2	8313.8	8282.0	8327.4	8332.0
27.5°	7651.2	7655.8	7887.2	8127.7	8468.1	8758.5	8835.7	8754.0	8604.2	8640.5	8699.5
30°	8123.2	8091.4	8322.9	8667.8	9026.3	9189.7	9321.3	9280.4	9117.0	9085.3	9035.4
32.5°	8667.8	8676.9	8885.6	9262.3	9498.2	9770.5	9911.2	9843.1	9738.8	9684.3	9716.1
35°	9434.7	9475.6	9616.2	9929.4	10310.6	10446.7	10669.1	10523.9	10251.6	10319.6	10378.6
37.5°	10065.5	10183.5	10446.7	10818.8	11045.7	11295.3	11377.0	11181.9	10982.2	10900.5	11095.7
40°	11032.1	10995.8	11286.3	11658.4	11994.2	12243.8	12139.4	11944.3	11449.6	11454.2	11508.6
42.5°	11862.6	11880.8	12103.1	12547.9	13006.2	13160.5	12829.2	12352.7	11803.6	11744.6	11862.6
45°	12561.5	12634.1	12761.1	13355.6	13804.9	13972.8	13360.2	12797.4	12062.3	11817.2	12012.4
47.5°	12811.1	12929.1	13205.9	13750.4	14195.2	14331.3	13841.2	13033.4	12302.8	11903.4	12007.8
50°	12847.4	12806.5	13260.3	13759.5	14149.8	14444.8	14013.7	13205.9	12243.8	12035.0	12003.3
52.5°	11853.5	12053.2	12538.8	13224.0	14013.7	14485.6	14168.0	13301.2	12325.5	12089.5	12012.4
55°	9593.5	9357.6	10242.5	11395.2	12847.4	14158.9	14113.5	13351.1	12375.4	12180.3	12075.9
57.5°	5355.0	5423.0	5922.2	7174.7	9049.0	11227.3	12547.9	12824.7	12352.7	12239.3	12293.7
60°	2477.8	2500.5	2713.8	3299.2	4461.0	6367.0	8105.0	9870.4	10682.7	10846.1	10846.1
62.5°	1847.0	1837.9	1892.4	1996.8	2241.8	2927.1	3907.3	5309.6	6426.0	7206.5	7410.7
65°	1670.0	1665.5	1692.7	1729.0	1747.2	1842.5	2060.3	2491.4	2854.5	3063.2	3026.9
67.5°	1461.3	1456.7	1465.8	1488.5	1520.3	1570.2	1624.6	1715.4	1842.5	1833.4	1810.7
70°	1179.9	1179.9	1193.5	1211.7	1248.0	1307.0	1370.5	1434.0	1543.0	1565.6	1561.1
72.5°	871.3	857.7	884.9	921.2	957.5	1030.1	1098.2	1157.2	1234.4	1257.1	1248.0
75°	553.6	562.7	580.9	621.7	685.3	735.2	807.8	857.7	907.6	925.8	930.3
77.5°	308.6	317.7	349.4	399.4	462.9	517.3	580.9	621.7	653.5	658.0	662.6
80°	186.1	190.6	222.4	267.7	322.2	381.2	431.1	472.0	499.2	485.6	481.0
82.5°	113.5	118.0	145.2	186.1	231.4	276.8	331.3	367.6	394.8	376.7	358.5
85°	59.0	63.5	86.2	113.5	149.8	172.4	172.4	154.3	149.8	140.7	136.1
87.5°	18.2	18.2	22.7	27.2	22.7	27.2	31.8	36.3	36.3	40.8	36.3
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)