

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: P454513

Luminaire Tested: **GALN-SA5C-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27088 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

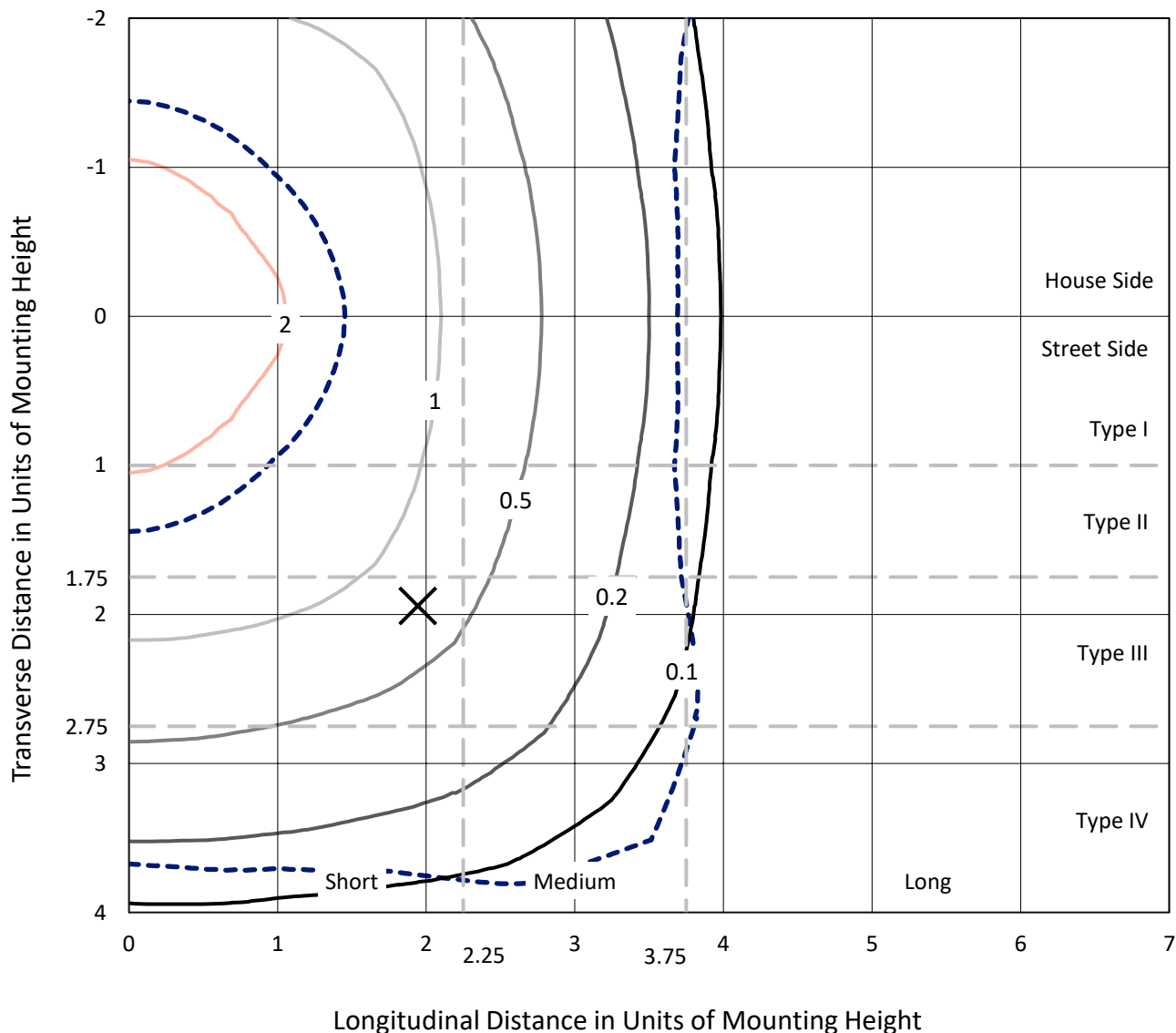
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

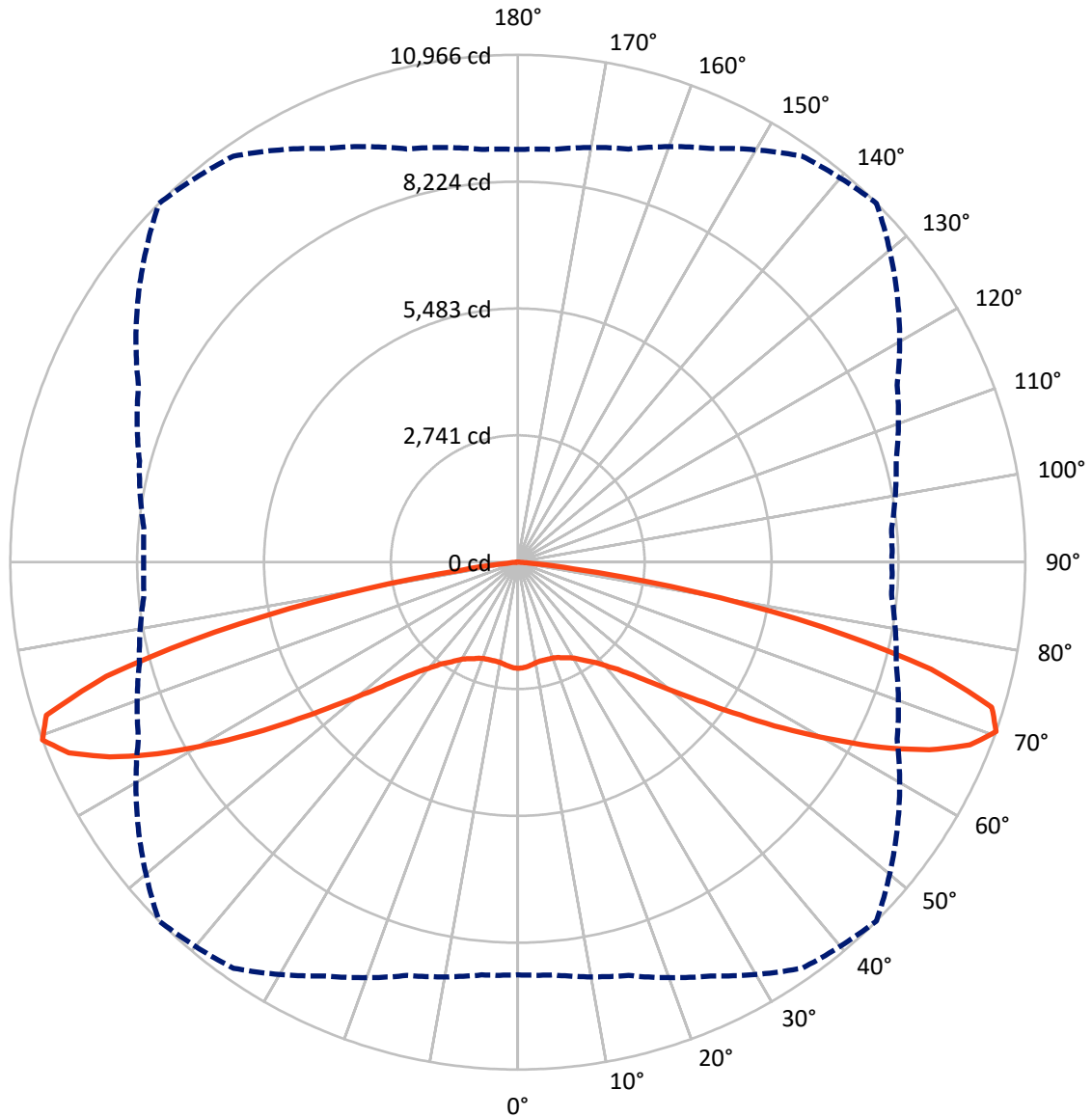
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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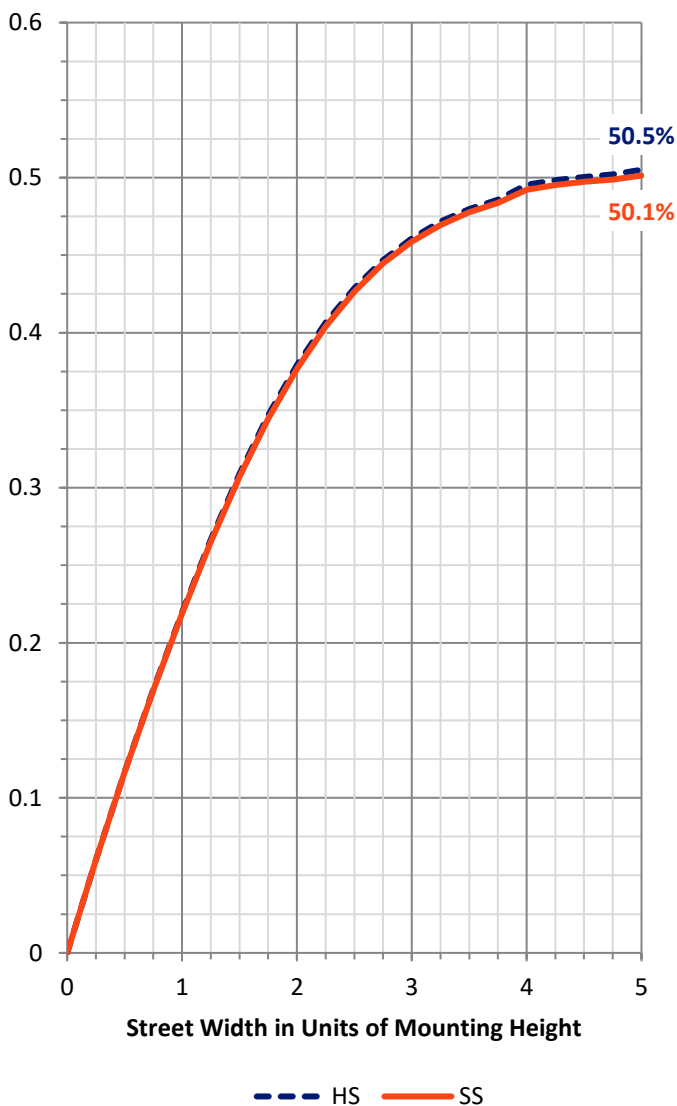
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13544.0	0.0	13544.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13544.0	0.0	13544.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27088.0	0.0	27088.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.5	0.8
10°-20°	627.9	2.3
20°-30°	1069.7	3.9
30°-40°	1658.1	6.1
40°-50°	2790.8	10.3
50°-60°	5077.8	18.7
60°-70°	8596.5	31.7
70°-80°	6654.0	24.6
80°-90°	398.7	1.5
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°	27088.0	100.0
0°-180°	27088.0	100.0



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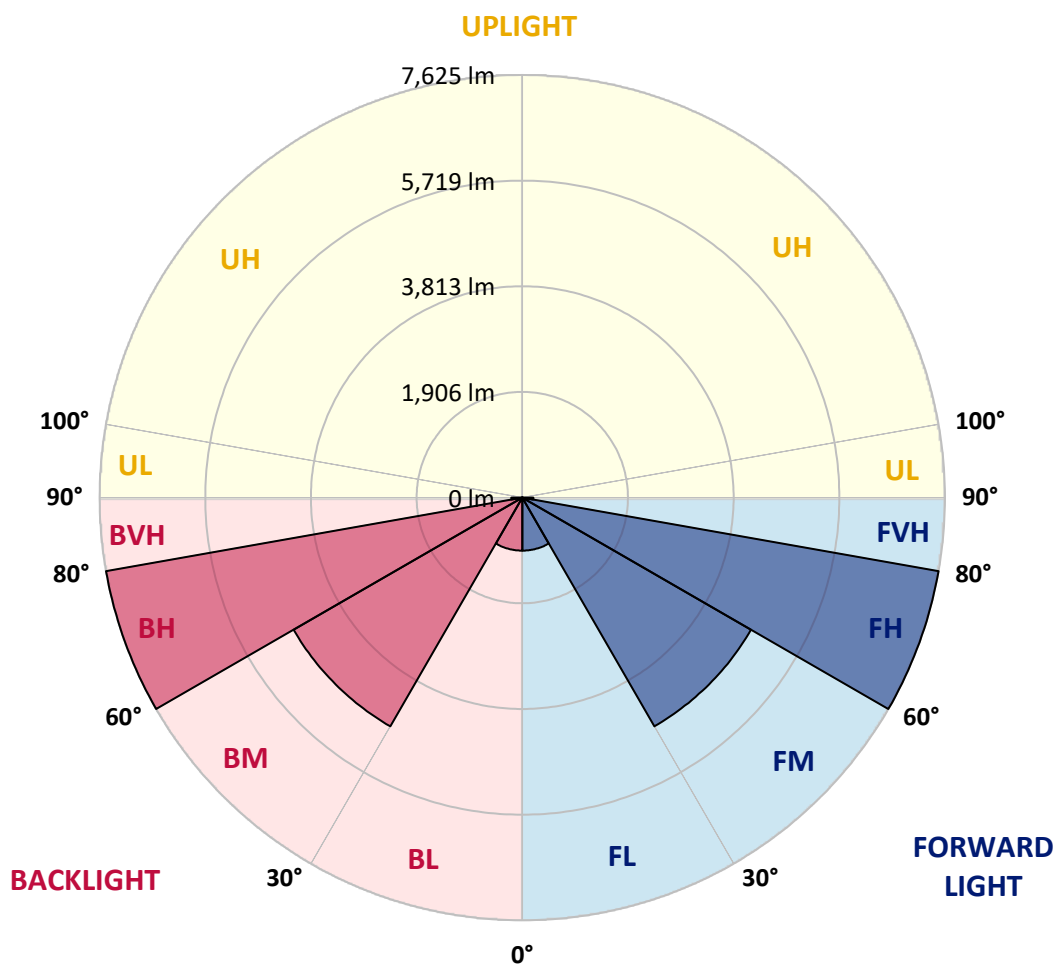
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.0	3.5			
FM (30°-60°)	4763.3	17.6			
FH (60°-80°)	7625.3	28.1			G4/12000
FVH (80°-90°)	199.4	0.7			G2/225
BL (0°-30°)	956.0	3.5	B2/1000		
BM (30°-60°)	4763.3	17.6	B3/5000		
BH (60°-80°)	7625.3	28.1	B5		G4/12000
BVH (80°-90°)	199.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3
2.5°	2287.6	2289.0	2289.0	2286.2	2284.7	2284.7	2283.3	2283.3	2287.6	2289.0	2290.5
5°	2267.6	2267.6	2267.6	2266.1	2263.3	2263.3	2260.4	2260.4	2261.9	2266.1	2263.3
7.5°	2240.4	2243.3	2243.3	2237.5	2233.2	2233.2	2231.8	2233.2	2234.7	2239.0	2237.5
10°	2231.8	2233.2	2226.1	2216.1	2208.9	2204.6	2206.1	2208.9	2216.1	2218.9	2220.4
12.5°	2237.5	2237.5	2224.7	2210.4	2197.5	2191.8	2190.3	2200.3	2213.2	2221.8	2224.7
15°	2244.7	2241.8	2226.1	2207.5	2194.6	2193.2	2191.8	2198.9	2217.5	2234.7	2236.1
17.5°	2249.0	2247.6	2227.5	2204.6	2197.5	2197.5	2196.0	2201.8	2221.8	2243.3	2244.7
20°	2263.3	2259.0	2236.1	2211.8	2206.1	2208.9	2204.6	2211.8	2233.2	2259.0	2264.7
22.5°	2291.9	2287.6	2264.7	2240.4	2237.5	2237.5	2236.1	2243.3	2266.1	2293.3	2297.6
25°	2326.2	2321.9	2300.5	2283.3	2286.2	2291.9	2289.0	2290.5	2309.1	2332.0	2339.1
27.5°	2372.0	2364.9	2346.3	2332.0	2340.5	2340.5	2340.5	2339.1	2350.6	2372.0	2379.2
30°	2427.8	2425.0	2404.9	2403.5	2410.6	2403.5	2403.5	2404.9	2406.4	2426.4	2433.5
32.5°	2500.8	2495.1	2485.0	2482.2	2502.2	2507.9	2487.9	2469.3	2479.3	2499.3	2503.6
35°	2620.9	2612.4	2598.1	2582.3	2598.1	2625.2	2582.3	2568.0	2593.8	2620.9	2623.8
37.5°	2784.0	2779.8	2756.9	2728.2	2726.8	2755.4	2711.1	2709.6	2758.3	2791.2	2795.5
40°	2988.6	2992.9	2964.3	2937.1	2922.8	2945.7	2911.4	2924.2	2971.5	3008.7	3005.8
42.5°	3276.2	3260.4	3216.1	3190.3	3174.6	3166.0	3157.4	3177.5	3230.4	3270.5	3301.9
45°	3612.4	3606.7	3550.9	3519.4	3485.1	3472.2	3469.3	3505.1	3569.5	3618.1	3622.4
47.5°	3992.9	3980.1	3944.3	3911.4	3898.5	3882.8	3868.5	3895.7	3960.0	3994.4	4004.4
50°	4384.9	4387.8	4387.8	4382.1	4395.0	4397.8	4359.2	4369.2	4405.0	4402.1	4399.2
52.5°	4832.7	4848.5	4922.9	4930.0	4991.5	5033.0	4962.9	4921.4	4908.6	4831.3	4837.0
55°	5359.2	5373.5	5485.1	5596.7	5762.7	5832.8	5685.4	5556.6	5465.1	5347.8	5353.5
57.5°	6015.9	6023.0	6128.9	6343.5	6606.7	6771.3	6512.3	6257.7	6071.7	5960.1	5915.7
60°	6722.6	6729.8	6884.3	7146.1	7555.3	7755.6	7435.1	7018.8	6784.1	6613.9	6625.3
62.5°	7571.0	7599.6	7738.4	8098.9	8595.3	8820.0	8395.1	7838.5	7520.9	7309.2	7317.8
65°	8479.5	8528.1	8679.7	9076.0	9533.8	9775.6	9254.9	8612.5	8217.6	7958.7	7985.9
67.5°	9068.9	9111.8	9330.7	9768.5	10339.3	10539.6	9867.2	9119.0	8625.4	8316.4	8259.1
70°	8918.7	8954.4	9246.3	9867.2	10712.7	10965.9	10013.1	9044.6	8463.7	8107.5	8084.6
72.5°	7872.9	7798.5	8224.8	9116.1	10286.4	10711.3	9553.9	8260.6	7529.5	7163.3	7120.3
75°	5217.6	5379.2	6008.7	7058.8	8702.6	9229.1	8154.7	6632.5	5712.6	5407.9	5360.6
77.5°	1744.0	1868.4	2427.8	4001.5	5932.9	6724.1	5941.5	4337.7	3068.7	2472.2	2483.6
80°	462.1	456.4	590.9	1100.2	2563.7	3894.2	2984.3	1469.3	804.0	582.3	552.2
82.5°	166.0	186.0	238.9	304.7	679.6	1210.3	854.1	412.0	301.9	223.2	216.0
85°	73.0	71.5	103.0	121.6	170.2	226.0	200.3	174.5	153.1	101.6	94.4
87.5°	15.7	15.7	24.3	18.6	30.0	30.0	37.2	44.4	45.8	30.0	24.3
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)